

CHAPTER VI.

MANUFACTURING INDUSTRY.

§ 1. General.

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

Prior to the federation of the Australian States in 1901, the manufacturing industry in Australia was engaged primarily in the production of goods for local use, mainly 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.

This expansion was checked 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 their 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 XIII.—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 Deputy Commonwealth Statisticians of the several States from returns supplied to them annually by manufacturers in accordance with the Statistical Acts of the States and the Commonwealth. A return must be supplied in respect of every factory, which is defined for this purpose as an establishment where four or more persons are employed or where power (other than manual) is used in any manufacturing process. This definition includes factories in educational and charitable institutions, reformatories, and other public institutions (except penitentiaries) but does not cover smallgoods makers, laundries, 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 and 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.
Sewing Machines.

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

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 Concrushing.
Bakeries (including Cakes and Pastry).
Biscuits.
Sugar-mills.
Sugar-refining.

CLASS IX.—FOOD, DRINK AND TOBACCO—
continued.
 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.
 Woodturning, Woodcarving, etc.
 Basketware and Wickerware (including Sea-grass
 and Bamboo Furniture).
 Perambulators (including Pushers and Strollers).
 Wall and Ceiling Boards (not Plaster or Cement).
 Other.

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

CLASS XI.—FURNITURE OF WOOD, BEDDING, ETC.—
continued.
 Picture Frames.
 Blinds.

CLASS XII.—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 Material, (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.	Factories.	Employment.(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.
1901	11,143	198	(d)	(d)	(d)	(d)	(d)	(d)
1911	14,455	312	27,528	81,763	133,022	51,259	32,701	31,516
1920-21 ..	17,113	367	62,932	213,559	323,993	110,434	60,831	68,655
1930-31 ..	21,751	339	62,455	172,489	290,799	118,310	112,211	124,498
1940-41 ..	27,300	650	137,919	386,881	644,795	257,914	144,094	161,356
1949-50 ..	41,596	917	385,797	983,924	1,645,456	661,532	259,549	285,602
1950-51 ..	43,147	969	491,718	1,306,963	2,150,835	843,872	302,785	336,615
1951-52 ..	45,844	978	611,789	1,609,839	2,634,706	1,024,867	359,490	410,144
1952-53 ..	47,740	933	635,245	1,637,142	2,720,004	1,082,862	414,446	493,534
1953-54 ..	49,576	990	705,137	1,868,431	3,095,476	1,227,045	483,431	580,715
1954-55 ..	51,056	1,031	781,640	2,069,080	3,434,589	1,365,509	555,996	698,292
1955-56 ..	52,406	1,060	853,469	2,263,346	3,764,060	1,500,714	655,582	803,540
1956-57 ..	53,200	1,063	891,090	2,400,293	4,022,413	1,622,120	761,995	923,954

(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 1952–53 to 1956–57:—

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
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
1956–57	21,838	16,232	5,537	4,063	3,935	1,595	53,200

2. Number of Factories in Industrial Classes.—(i) *Australia*. The next table shows the number of factories in Australia during 1938–39 and 1952–53 to 1956–57 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 185.

FACTORIES: NUMBER IN INDUSTRIAL CLASSES, AUSTRALIA.

Class of Industry.	1938–39.	1952–53.	1953–54.	1954–55.	1955–56.	1956–57.
I. Treatment of Non-metalliferous Mine and Quarry Products	564	1,276	1,280	1,303	1,337	1,331
II. Bricks, Pottery, Glass, etc.	471	623	639	662	666	672
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease	666	1,090	1,099	1,124	1,139	1,162
IV. Industrial Metals, Machines, Conveyances	7,255	15,672	16,868	17,842	18,860	19,766
V. Precious Metals, Jewellery, Plate	290	681	720	746	782	824
VI. Textiles and Textile Goods (not Dress)	611	1,270	1,336	1,356	1,362	1,364
VII. Skins and Leather (not Clothing or Footwear)	533	778	783	810	789	785
VIII. Clothing (except Knitted)	4,314	7,036	7,260	7,370	7,390	7,312
IX. Food, Drink and Tobacco	5,202	7,248	7,379	7,433	7,468	7,315
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving	2,822	5,790	5,769	5,845	5,895	5,872
XI. Furniture of Wood, Bedding, etc. ..	1,149	2,157	2,180	2,200	2,203	2,199
XII. Paper, Stationery, Printing, Book-binding, etc.	1,816	2,121	2,179	2,224	2,303	2,367
XIII. Rubber	299	446	465	495	513	536
XIV. Musical Instruments	34	69	75	79	84	88
XV. Miscellaneous Products	413	1,035	1,095	1,119	1,188	1,185
<i>Total, Classes I. to XV.</i>	26,439	47,292	49,177	50,608	51,979	52,778
XVI. Heat, Light and Power	502	448	449	448	427	422
Grand Total	26,941	47,740	49,576	51,056	52,406	53,200

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 1956–57. In the latter year, the number of factories in Australia reached the record total of 53,200 or nearly twice the number in 1938–39.

(ii) *States, 1956-57.* The following table shows the number of factories in each State classified according to the nature of the industry:—

FACTORIES : NUMBER IN INDUSTRIAL CLASSES, 1956-57.

Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metalliferous Mine and Quarry Products	435	445	102	172	121	56	1,331
II. Bricks, Pottery, Glass, etc.	318	161	60	64	50	19	672
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease	580	345	74	83	60	20	1,162
IV. Industrial Metals, Machines, Conveyances	8,144	5,818	2,049	1,720	1,564	471	19,766
V. Precious Metals, Jewellery, Plate	373	273	44	58	70	6	824
VI. Textiles and Textile Goods (not Dress)	486	740	28	49	44	17	1,364
VII. Skins and Leather (not Clothing or Footwear)	357	297	54	38	31	8	785
VIII. Clothing (except Knitted)	3,411	2,512	532	376	415	66	7,312
IX. Food, Drink and Tobacco	2,672	1,999	1,038	698	611	297	7,315
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving	2,321	1,387	844	348	486	486	5,872
XI. Furniture of Wood, Bedding, etc.	799	700	296	160	170	74	2,199
XII. Paper, Stationery, Printing, Bookbinding, etc.	999	864	200	149	122	33	2,367
XIII. Rubber	208	146	80	52	33	17	536
XIV. Musical Instruments	37	30	6	7	8	..	88
XV. Miscellaneous Products	579	430	58	45	59	14	1,185
<i>Total Classes I. to XV.</i>	<i>21,719</i>	<i>16,147</i>	<i>5,465</i>	<i>4,019</i>	<i>3,844</i>	<i>1,584</i>	<i>52,773</i>
XVI. Heat, Light and Power	119	85	72	44	91	11	422
Grand Total	21,838	16,232	5,537	4,063	3,935	1,595	53,200

§ 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).

2. **States, 1956-57.**—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, 1956-57.

Size of Factory (Persons employed).	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
NUMBER OF FACTORIES.							
Under 4	8,739	5,853	1,844	1,415	1,953	692	20,496
4	1,820	1,248	576	383	160	146	4,333
5 to 10	5,203	3,918	1,564	1,032	939	385	13,041
11 to 20	2,811	2,252	699	574	409	175	6,920
21 to 50	1,918	1,705	502	381	307	121	4,934
51 to 100	692	638	171	154	100	41	1,796
101 to 200	353	348	96	64	42	18	921
201 to 300	113	113	47	23	17	5	318
301 to 400	58	44	11	11	..	4	128
401 to 500	26	29	8	7	3	..	73
501 to 750	46	52	10	7	3	4	122
751 to 1,000	24	12	6	2	1	..	45
Over 1,000	35	20	3	10	1	4	73
Total	21,838	16,232	5,537	4,063	3,935	1,595	53,200

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 : AVERAGE NUMBER OF PERSONS EMPLOYED ACCORDING TO SIZE OF FACTORY, 1956-57.

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	16,497	11,726	3,862	2,946	3,894	1,408	40,333
4	7,280	4,992	2,304	1,532	640	584	17,332
5 to 10	36,028	27,444	10,853	7,188	6,112	2,692	90,317
11 to 20	40,879	33,219	10,272	8,323	5,796	2,598	101,087
21 to 50	59,758	53,729	15,531	12,075	9,571	3,790	154,454
51 to 100	48,175	44,427	12,135	10,906	6,970	2,907	125,520
101 to 200	49,279	48,377	13,482	9,208	5,717	2,547	128,610
201 to 300	27,439	27,239	11,352	5,532	4,022	1,312	76,896
301 to 400	20,243	14,917	3,618	3,781	..	1,424	43,983
401 to 500	11,361	12,852	3,724	3,185	1,285	..	32,407
501 to 750	28,147	31,938	5,732	4,291	1,700	2,631	74,439
751 to 1,000	20,764	10,459	5,311	1,896	844	..	39,274
Over 1,000	74,471	35,194	5,690	21,616	2,985	6,307	146,263
Total	440,321	356,513	103,866	92,479	49,536	28,200	1,070,915
Average per Factory ..	20.17	21.96	18.76	22.76	12.59	17.68	20.13

3. Australia, 1938-39 and 1952-53 to 1956-57.—In the following table, factories in Australia are classified in broad groups for a series of years according to the number of persons employed.

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 .. ..	..	5.89	..	42.60	..	287.55	..	21.25
1952-53—								
Number	40,066	230,549	6,234	257,099	1,440	453,657	47,740	941,305
Average .. ..	..	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 .. ..	..	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 .. ..	..	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 .. ..	..	5.59	..	41.57	..	327.16	..	20.39
1956-57—								
Number	44,790	249,069	6,730	279,974	1,680	541,872	53,200	1,070,915
Average .. ..	..	5.56	..	41.60	..	322.54	..	20.13

§ 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 1956–57, 420 factories were recorded as using no power other than manual, the distribution of these factories among the various industries being as follows:—Fibrous Plaster and Products, 26; Galvanized Ironworking, Tinsmithing, 17; Tailoring and Ready-made Clothing, 102; Dressmaking, 9; Millinery, 7; Bakeries, 25; Cabinet and Furniture Making, 6; all other industries, 228.

2. **Rated Horse-power of Engines in Factories other than Central Electric Stations.**—The following table shows the number of factories and the total rated horse-power of engines and electric motors ordinarily in use and in reserve or idle during 1956–57:—

FACTORIES(a): TOTAL RATED HORSE-POWER OF ENGINES AND ELECTRIC MOTORS, 1956-57.

State.	Number of Factories.	Rated Horse-power of Engines and Motors.	
		Ordinarily in Use.(b)	In Reserve or Idle (omitting obsolete).
New South Wales	21,756	1,889,265	354,208
Victoria	16,179	1,339,098	174,060
Queensland	5,481	484,130	68,693
South Australia	4,022	366,667	44,385
Western Australia	3,848	238,959	31,226
Tasmania	1,586	237,907	32,766
Australia	52,872	4,556,026	705,338

(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, 1956-57.

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. ..	84,717	118,045	986	46,555	20,985	150	1,617,827	80,051	1,889,265
Victoria ..	22,905	81,270	1,764	27,750	14,330	1,079	1,190,000	60,435	1,339,098
Queensland ..	85,085	55,553	2,615	12,821	17,004	..	311,052	87,967	484,130
S. Australia ..	9,468	11,050	1,170	7,421	11,237	10	326,311	27,082	366,667
W. Australia ..	11,167	10,638	1,393	15,788	9,973	..	190,000	5,170	238,959
Tasmania ..	1,533	3	45	10,198	531	192	225,405	3	237,907
Australia ..	214,875	276,559	7,973	120,533	74,060	1,431	3,860,595	260,708	4,556,026

(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 1952-53 to 1956-57.

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
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
1956-57	214,875	276,559	7,973	120,533	74,060	1,431	3,860,595	260,708	4,556,026

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

(b) Excludes particulars in column (c).

(iii) *In Classes of Industry, 1956-57.* 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), 1956-57.

Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metalliciferous Mine and Quarry Products	81,685	60,215	16,632	20,748	16,200	14,988	210,468
II. Bricks, Pottery, Glass, etc.	50,074	32,889	8,558	9,344	10,603	2,141	113,609
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease	138,436	136,311	10,029	20,656	39,617	10,708	355,757
IV. Industrial Metals, Machines, Conveyances	948,529	391,469	90,835	173,125	65,267	58,479	1,727,704
V. Precious Metals, Jewellery, Plate	5,049	5,263	1,158	1,132	630	65	13,297
VI. Textiles and Textile Goods (not Dress)	54,247	128,613	6,932	7,921	2,790	6,873	207,376
VII. Skins and Leather (not Clothing or Footwear)	18,069	20,152	5,713	5,641	2,883	525	52,983
VIII. Clothing (except Knitted)	23,240	30,799	4,346	3,308	2,467	955	65,115
IX. Food, Drink and Tobacco	210,815	200,943	214,194	56,951	37,297	18,979	739,179
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving	177,256	122,310	95,366	35,126	49,003	40,971	520,032
XI. Furniture of Wood, Bedding, etc.	16,892	16,607	8,736	6,564	3,991	1,545	54,335
XII. Paper, Stationery, Printing, Bookbinding, etc.	67,264	94,915	9,644	14,690	5,454	80,821	272,788
XIII. Rubber	53,783	55,246	8,863	3,795	733	320	122,740
XIV. Musical Instruments	2,550	522	52	13	8	..	3,145
XV. Miscellaneous Products	22,183	27,028	629	2,043	831	411	53,125
<i>Total, Classes I. to XV.</i>	<i>1,870,072</i>	<i>1,323,282</i>	<i>481,687</i>	<i>361,057</i>	<i>237,774</i>	<i>237,781</i>	<i>4,511,653</i>
XVI. Gas Works	19,193	15,816	2,443	5,610	1,185	126	44,373
Grand Total	1,889,265	1,339,098	484,130	366,667	238,959	237,907	4,556,026

(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 1956-57 are given in the following table:—

CENTRAL ELECTRIC STATIONS: POWER EQUIPMENT, AUSTRALIA, 1956-57.

Particulars.	Capacity of Engines and Generators.						Total.
	Steam.		Internal Combustion.			Water.	
	Reciprocating.	Turbine.	Gas.	Petrol or Other Light Oils.	Heavy Oils.		
Engines installed .. Rated H.P.	6,140	4,904,302	7,115	13,816	344,356	1,214,008	6,489,737
Generators installed—							
Kilowatt capacity—							
Total installed .. kW	4,612	3,585,597	5,105	8,535	218,875	881,881	4,704,605
Effective capacity	4,224	3,313,182	3,691	6,857	199,810	846,995	4,374,759
Horse-power equivalent—							
Total installed .. H.P.	6,182	4,806,421	6,843	11,441	293,398	1,182,144	6,306,429
Effective capacity	5,662	4,441,254	4,948	9,192	267,841	1,135,380	5,864,277

NOTE.—The number of establishments classified as Central Electric Stations in 1956-57 was 328.

(ii) *States.* Details of the capacity of engines and generators installed in Central Electric Stations in each State in 1956-57 are given in the next table.

CENTRAL ELECTRIC STATIONS: NUMBER AND POWER EQUIPMENT, 1956-57.

Particulars.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Central Electric Stations No.	82	53	56	41	87	9	328
Engines installed .. Rated H.P.	2,608,254	1,568,721	724,231	(a)	406,482	(a)	6,489,737
Generators installed—							
Kilowatt capacity—							
Total installed .. kW	1,865,714	1,163,030	529,933	(a)	295,404	(a)	4,704,605
Effective capacity	1,734,625	1,093,368	423,905	(a)	282,703	(a)	4,374,759
Horse-power equivalent—							
Total installed .. H.P.	2,500,952	1,559,019	710,365	(a)	395,983	(a)	6,306,429
Effective capacity	2,325,230	1,465,906	568,236	(a)	378,958	(a)	5,864,277

(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), p. 163), 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) engine-drivers 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. 155), 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 the years 1938–39 and 1952–53 to 1956–57 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
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
1956–57 ..	813,551	1,704	0.21	249,847	1,196	0.48	1,063,398	2,900	0.27

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) the average number, 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.	Taa.	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
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
1956–57 ..	436,369	355,204	103,426	91,981	48,748	27,670	1,063,398

PERCENTAGE OF AUSTRALIAN TOTAL.

1938–39 ..	40.48	35.72	9.58	7.67	4.11	2.44	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
1956–57 ..	41.04	33.40	9.73	8.65	4.58	2.60	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
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
1956-57 ..	1,216	1,345	749	1,068	712	848	1,115

2. Rates of Increase, 1938-39 and 1952-53 to 1956-57.—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
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
1956-57 ..	0.75	0.00	0.93	-0.66	-2.71	2.25	0.27

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 1952-53 to 1956-57 :—

FACTORIES : PERSONS EMPLOYED IN INDUSTRIAL CLASSES, AUSTRALIA.

Class of Industry.	1938-39	1952-53.	1953-54.	1954-55	1955-56.	1956-57.
I. Treatment of Non-metalliferous Mine and Quarry Products	10,343	18,752	18,748	20,560	20,893	20,318
II. Bricks, Pottery, Glass, etc.	15,709	19,571	21,708	22,549	22,914	22,162
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease	19,816	36,139	37,988	41,324	44,718	45,753
IV. Industrial Metals, Machines, Conveyances	177,677	376,398	397,713	422,124	444,274	447,405
V. Precious Metals, Jewellery, Plate	3,726	5,398	5,970	6,029	5,894	6,053
VI. Textiles and Textile Goods (not Dress)	46,082	60,087	69,482	69,046	68,356	70,176
VII. Skins and Leather (not Clothing or Footwear)	10,767	14,126	14,676	14,502	13,810	13,454
VIII. Clothing (except Knitted)	86,092	105,681	112,520	112,802	110,820	109,266
IX. Food, Drink and Tobacco	83,846	120,668	123,073	125,934	126,493	124,723
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving	30,739	56,984	58,932	61,153	61,914	60,008
XI. Furniture of Wood, Bedding, etc.	15,287	20,353	20,975	21,342	21,508	21,258
XII. Paper, Stationery, Printing, Book-binding, etc.	39,913	53,219	56,119	59,777	62,713	64,719
XIII. Rubber	7,502	12,288	14,962	16,325	17,287	17,844
XIV. Musical Instruments	451	1,267	1,575	1,623	1,739	1,902
XV. Miscellaneous Products	7,727	17,240	19,565	19,962	20,967	21,746
<i>Total, Classes I. to XV.</i>	<i>555,677</i>	<i>918,171</i>	<i>974,006</i>	<i>1,015,052</i>	<i>1,044,300</i>	<i>1,046,787</i>
XVI. Heat, Light and Power	9,429	15,090	15,536	16,030	16,198	16,611
Grand Total..	565,106	933,261	989,542	1,031,082	1,060,498	1,063,398

(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, 1956-57.

Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-ferrous Mine and Quarry Products ..	7,865	6,398	1,827	1,909	1,536	783	20,318
II. Bricks, Pottery, Glass, etc. ..	11,313	5,652	1,271	2,159	1,402	365	22,162
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease ..	20,566	16,653	1,805	3,274	2,768	687	45,753
IV. Industrial Metals, Machines, Conveyances ..	201,216	131,299	36,540	49,809	19,490	9,051	447,405
V. Precious Metals, Jewellery, Plate ..	2,437	2,605	334	426	231	20	6,053
VI. Textiles and Textile Goods (not Dress) ..	23,233	37,945	2,145	2,690	977	3,186	70,176
VII. Skins and Leather (not Clothing or Footwear) ..	5,414	4,724	1,314	1,295	634	73	13,454
VIII. Clothing (except Knitted) ..	43,924	47,093	8,535	5,261	3,612	841	109,266
IX. Food, Drink and Tobacco ..	38,801	37,542	26,372	11,033	6,511	4,464	124,723
X. Sawmills, Joinery, Boxes, etc. Wood Turning and Carving ..	20,051	15,093	10,684	4,787	5,898	3,495	60,008
XI. Furniture of Wood, Bedding, etc. ..	8,191	6,312	2,924	2,044	1,301	486	21,258
XII. Paper, Stationery, Printing, Bookbinding, etc. ..	27,569	21,619	5,394	3,949	2,551	3,637	64,719
XIII. Rubber ..	7,854	6,848	1,708	1,037	250	147	17,844
XIV. Musical Instruments ..	1,494	293	46	38	31	..	1,902
XV. Miscellaneous Products ..	9,510	10,313	595	719	410	199	21,746
<i>Total, Classes I. to XV.</i>	<i>429,438</i>	<i>350,389</i>	<i>101,494</i>	<i>90,430</i>	<i>47,602</i>	<i>27,434</i>	<i>1,046,787</i>
XVI. Heat, Light and Power ..	6,931	4,815	1,932	1,551	1,146	236	16,611
Grand Total ..	436,369	355,204	103,426	91,981	48,748	27,670	1,063,398

4. **Persons Employed According to Occupational Grouping.**—(i) *General.* In the following table, the average number of persons employed in each State during 1956-57 is classified according to 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.* 159).

FACTORIES : PERSONS EMPLOYED—OCCUPATIONAL GROUPING, 1956-57.

State.	Average Number of Persons Employed.						Total.
	Working Proprietors.	Managerial and Clerical Staff, etc.(a)	Chemists, Draftsmen, etc.	Foremen and Overseers.	Workers in Factory (Skilled and Unskilled).	Carters (excluding Delivery only) and Messengers, etc. (b)	
New South Wales ..	16,029	52,280	6,380	18,976	340,645	2,059	436,369
Victoria ..	13,967	40,279	5,585	15,498	277,507	2,368	355,204
Queensland ..	4,925	10,230	1,002	3,937	82,802	530	103,426
South Australia ..	2,829	10,903	1,557	4,229	72,104	359	91,981
Western Australia ..	2,715	4,155	454	2,089	39,236	99	48,748
Tasmania ..	1,013	2,749	571	1,333	21,873	131	27,670
<i>Total Males</i> ..	<i>36,455</i>	<i>74,275</i>	<i>14,165</i>	<i>42,781</i>	<i>641,308</i>	<i>4,567</i>	<i>813,551</i>
<i>Total Females</i> ..	<i>5,023</i>	<i>46,321</i>	<i>1,384</i>	<i>3,281</i>	<i>192,859</i>	<i>979</i>	<i>249,847</i>
Total Persons ..	41,478	120,596	15,549	46,062	834,167	5,546	1,063,398

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

(b) Includes persons working regularly at home.

(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 1952-53 to 1956-57.*—(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.	1952-53.	1953-54.	1954-55.	1955-56.	1956-57.
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MALES.

July	387,693	688,670	704,109	739,450	768,382	775,580
August	389,979	682,882	707,438	741,435	770,312	774,506
September	391,576	680,026	710,246	743,638	771,715	774,119
October	393,977	679,901	715,338	746,139	774,071	774,455
November	395,192	680,398	719,230	750,285	777,304	777,127
December	394,438	678,174	716,202	747,230	772,509	772,479
January	385,742	680,298	722,277	750,823	774,077	773,419
February	392,056	689,012	727,754	755,456	778,552	779,646
March	395,146	694,516	732,000	757,956	779,527	780,973
April	391,005	697,202	731,923	760,139	780,418	777,262
May	393,609	698,711	734,340	761,555	780,252	779,757
June	390,963	701,500	738,002	763,488	777,968	780,156

FEMALES.

July	147,282	201,464	212,322	231,222	238,883	240,918
August	149,294	200,393	214,644	232,603	240,857	241,429
September	151,159	199,910	218,078	234,818	243,289	243,199
October	152,473	201,107	222,255	236,930	244,840	245,130
November	152,806	201,346	224,672	238,146	244,582	245,006
December	151,165	199,707	224,100	236,804	242,366	242,175
January	141,853	201,596	228,838	236,664	240,574	243,191
February	151,883	209,939	232,678	242,008	247,841	248,336
March	154,854	213,470	236,354	242,573	247,209	250,728
April	152,614	211,725	234,175	239,460	244,588	245,873
May	150,693	211,392	232,333	238,450	243,989	244,055
June	148,601	211,551	232,009	238,529	242,548	242,966

PERSONS.

July	534,975	890,134	916,431	970,672	1,007,265	1,016,498
August	539,273	883,275	922,082	974,038	1,011,169	1,015,935
September	542,735	879,936	928,324	978,456	1,015,004	1,017,318
October	546,450	881,008	937,593	983,069	1,018,911	1,019,585
November	547,998	881,744	943,902	988,431	1,021,886	1,022,133
December	545,603	877,881	940,302	984,034	1,014,875	1,014,654
January	527,595	881,894	951,115	987,487	1,014,651	1,016,610
February	543,939	898,951	960,432	997,464	1,026,393	1,027,982
March	550,000	907,986	968,354	1,000,529	1,026,736	1,031,701
April	543,619	908,927	966,098	999,599	1,025,006	1,023,135
May	544,302	910,103	966,673	1,000,005	1,024,241	1,023,811
June	539,564	913,051	970,011	1,002,017	1,020,516	1,023,122

(ii) States. Particulars of the numbers employed in each State on the last pay-day of each month in 1956-57 are shown in the following table :—

FACTORIES : MONTHLY EMPLOYMENT, 1956-57.

(EXCLUDING WORKING PROPRIETORS.)

Month.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
MALES.							
July	312,311	245,995	83,311	73,628	39,363	20,972	775,580
August	312,475	245,787	82,691	73,322	39,200	21,031	774,506
September	312,892	244,644	82,753	73,167	39,576	21,087	774,119
October	313,779	244,317	82,558	73,007	39,614	21,180	774,455
November	314,971	245,747	82,776	72,813	39,537	21,283	777,127
December	314,425	245,225	78,981	72,807	39,393	21,648	772,479
January	316,480	245,220	76,423	73,746	39,471	22,079	773,419
February	317,940	246,878	79,412	73,651	39,975	21,790	779,646
March	318,356	247,576	80,144	73,231	40,066	21,600	780,973
April	317,196	246,282	79,777	72,861	39,751	21,395	777,262
May	318,134	246,166	81,548	72,721	39,822	21,366	779,757
June	317,824	245,814	83,165	72,553	39,556	21,244	780,156
FEMALES.							
July	102,990	93,961	16,769	15,529	6,409	5,260	240,918
August	103,388	94,049	16,952	15,470	6,401	5,169	241,429
September	104,370	94,830	17,141	15,403	6,522	4,933	243,199
October	105,744	95,585	17,058	15,401	6,529	4,813	245,130
November	105,683	95,324	16,944	15,679	6,544	4,832	245,006
December	104,193	94,000	16,631	15,913	6,497	4,941	242,175
January	103,411	93,549	16,703	17,667	6,496	5,365	243,191
February	104,820	96,929	17,624	17,162	6,564	5,237	248,336
March	105,678	98,440	17,614	17,116	6,680	5,200	250,728
April	104,654	96,184	16,839	16,302	6,562	5,332	245,873
May	104,525	95,101	16,708	15,817	6,489	5,414	244,055
June	104,642	94,333	16,793	15,775	6,262	5,161	242,966
PERSONS.							
July	415,301	339,956	100,080	89,157	45,772	26,232	1,016,498
August	415,863	339,836	99,643	88,792	45,601	26,200	1,015,935
September	417,262	339,474	99,894	88,570	46,098	26,020	1,017,318
October	419,523	339,902	99,616	88,408	46,143	25,993	1,019,585
November	420,654	341,071	99,720	88,492	46,081	26,115	1,022,133
December	418,618	339,225	95,612	88,720	45,890	26,589	1,014,654
January	419,891	338,769	93,126	91,413	45,967	27,444	1,016,610
February	422,760	343,807	97,036	90,813	46,539	27,027	1,027,982
March	424,034	346,016	97,758	90,347	46,746	26,800	1,031,701
April	421,850	342,466	96,616	89,163	46,313	26,727	1,023,135
May	422,659	341,267	98,256	88,538	46,311	26,780	1,023,811
June	422,466	340,147	99,958	88,328	45,818	26,405	1,023,122

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 number employed in each age-group on the last pay-day in June, 1956 and 1957, are given below :—

FACTORIES : DISTRIBUTION OF EMPLOYEES ACCORDING TO AGE, JUNE, 1956 AND 1957.

(EXCLUDING WORKING PROPRIETORS.)

Age Group.	June, 1956.			June, 1957.		
	Males.	Females.	Persons.	Males.	Females.	Persons.
Under 16 years	9,061	6,557	15,618	9,158	6,828	15,986
16 years	13,025	8,163	21,188	13,310	8,292	21,602
17 "	14,985	9,390	24,375	15,289	9,276	24,565
18 "	15,348	10,102	25,450	16,104	9,715	25,819
19 "	14,884	9,072	23,956	15,219	8,986	24,205
20 "	13,635	7,801	21,436	14,162	7,959	22,121
21 " and over	697,030	191,463	888,493	696,914	191,910	888,822
Total	777,968	242,548	1,020,516	780,156	242,966	1,023,122

The following table shows the age distribution in sexes for Australia in June, 1939, and 1957.

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
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
1957 ..	9,158	13,310	15,289	16,104	15,219	14,162	696,914	780,156
FEMALES.								
1939(a) ..	15,497	56,273					76,831	148,601
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
1957 ..	6,828	8,292	9,276	9,715	8,986	7,959	191,910	242,966
PERSONS.								
1939(a) ..	31,606	132,691					375,267	539,564
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
1957 ..	15,986	21,602	24,565	25,819	24,205	22,822	888,822	1,023,122

(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 1952-53 to 1956-57 :—

FACTORIES : MALES AND FEMALES EMPLOYED.

State.	1938-39.	1952-53.	1953-54.	1954-55.	1955-56.	1956-57.
MALES.						
New South Wales ..	167,172	291,704	305,040	316,673	327,106	329,386
Victoria ..	136,218	228,724	240,698	251,675	258,006	258,119
Queensland ..	43,941	77,627	81,425	83,290	85,123	85,899
South Australia ..	35,406	67,114	70,657	73,714	76,144	75,543
Western Australia ..	18,704	38,614	40,439	42,294	43,340	42,122
Tasmania ..	11,150	19,621	20,249	21,045	22,128	22,482
Australia ..	412,591	723,404	758,508	788,691	811,847	813,551
FEMALES.						
New South Wales ..	61,609	88,509	97,555	103,137	105,975	106,983
Victoria ..	65,613	82,035	90,579	94,973	97,179	97,085
Queensland ..	10,169	15,496	16,694	17,003	17,350	17,527
South Australia ..	7,965	13,369	14,846	15,851	16,445	16,438
Western Australia ..	4,507	6,574	7,020	7,020	6,768	6,626
Tasmania ..	2,652	3,874	4,340	4,407	4,934	5,188
Australia ..	152,515	209,857	231,034	242,391	248,651	249,847

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 1952-53 to 1956-57 :—

FACTORIES : ANNUAL PERCENTAGE INCREASES OF MALES AND FEMALES EMPLOYED.

State.	1938-39.	1952-53.	1953-54.	1954-55.	1955-56.	1956-57.
MALES.						
New South Wales ..	1.69	-4.30	4.57	3.81	3.29	0.70
Victoria ..	0.04	-2.13	5.24	4.56	2.52	0.04
Queensland ..	3.79	-0.06	4.89	2.29	2.20	0.91
South Australia ..	-2.39	-1.37	5.28	4.33	3.30	-0.79
Western Australia ..	-0.30	2.12	4.73	4.59	2.47	-2.81
Tasmania ..	4.40	-1.57	3.20	3.93	5.15	1.60
Australia ..	0.98	-2.50	4.85	3.98	2.94	0.21
FEMALES.						
New South Wales ..	1.88	-12.53	10.22	5.72	2.75	0.95
Victoria ..	-0.03	-9.30	10.42	4.85	2.32	-0.10
Queensland ..	3.96	-7.08	7.73	1.85	2.04	1.02
South Australia ..	1.98	-15.72	11.05	6.77	3.75	-0.04
Western Australia ..	3.06	-9.76	6.78	..	-3.59	-2.10
Tasmania ..	6.51	-5.35	12.03	1.54	11.96	5.15
Australia ..	1.30	-10.91	10.09	4.92	2.58	0.50

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 1952–53 to 1956–57 :—

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
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
1956–57	308	266	490	460	636	433	326

(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 1956–57, there were 326 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 1956–57, these industries accounted for 78.37 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 133 females to every 100 males and in Class VIII., Clothing, with 233 females to every 100 males. The following table shows the average number of males and females employed in each of the four classes in 1956–57 :—

MALES AND FEMALES EMPLOYED IN PARTICULAR INDUSTRIES, 1956–57.

Class.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
MALES.							
IV. Industrial Metals, etc. ..	177,312	116,890	34,242	44,567	18,616	8,541	400,168
VI. Textiles and Textile Goods (not Dress) ..	9,436	16,783	758	1,343	545	1,230	30,095
VIII. Clothing (except Knitted) ..	12,513	14,536	2,466	1,723	1,210	355	32,803
IX. Food, Drink and Tobacco ..	26,982	27,191	22,472	7,892	5,114	3,102	92,753
All Other Classes ..	103,143	82,719	25,961	20,018	16,637	9,254	257,732
Total ..	329,386	258,119	85,899	75,543	42,122	22,482	813,551
FEMALES.							
IV. Industrial Metals, etc. ..	23,904	14,409	2,298	5,242	874	510	47,237
VI. Textiles and Textile Goods (not Dress) ..	13,797	21,162	1,387	1,347	432	1,956	40,081
VIII. Clothing (except Knitted) ..	31,411	32,557	6,069	3,538	2,402	486	76,463
IX. Food, Drink and Tobacco ..	11,819	10,351	3,900	3,141	1,397	1,362	31,970
All Other Classes ..	26,052	18,606	3,873	3,170	1,521	874	54,096
Total ..	106,983	97,085	17,527	16,438	6,626	5,188	249,847

(ii) *Females Employed in Clothing Manufacture.* The employment of females in the several industries of Class VIII., Clothing, the class in which 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(a), 1956-57.

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	3,064	14,138	461	2,939	7,224	246	1,089	3,466	318
Waterproof and Oilskin Clothing	114	591	518	129	347	269	12	63	525
Dressmaking, Hemstitching Millinery	160	1,610	1,006	1,213	7,511	619	151	2,654	1,758
Shirts, Collars, Undercloth- ing	248	1,306	527	196	766	391	39	411	1,054
Foundation Garments .. .	454	4,055	893	806	5,819	722	159	1,864	1,172
Handkerchiefs, Ties and Scarves	120	1,264	1,053	224	1,532	684	21	157	748
Hats and Caps	150	991	661	94	405	431	35	117	334
Gloves	484	491	101	213	164	77	26	117	450
Boots and Shoes (not Rub- ber)	107	341	319	34	218	641	40	146	365
Boot and Shoe Repairing Boot and Shoe Accessories	3,435	3,561	104	5,393	5,743	106	1,848	1,452	79
Umbrellas and Walking Sticks	1,524	110	7	751	43	6	680	56	8
Dyeworks and Cleaning (in- cluding Renovating and Repairing)	191	99	52	422	235	56	39	7	18
Other	58	119	205	30	101	337	16	44	275
Total	2,359	2,369	100	1,980	2,047	103	1,599	1,941	121
	45	366	813	112	402	359	..	..	..
Total	12,513	31,411	251	14,536	32,557	224	5,754	12,495	217

(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, 1956 and 1957.**—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 15,986 in June, 1957, 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.			1956.			1957.		
	Males.	Females.	Persons.	Males.	Females.	Persons.	Males.	Females.	Persons.
New South Wales	5,759	7,084	12,843	2,538	1,860	4,398	2,584	1,981	4,565
Victoria	6,167	5,005	11,172	2,888	2,338	5,226	2,966	2,480	5,446
Queensland	1,790	1,334	3,124	1,749	1,199	2,948	1,711	1,205	2,916
South Australia	1,296	1,053	2,349	872	723	1,595	878	724	1,602
Western Australia	705	521	1,226	901	361	1,262	898	327	1,225
Tasmania	392	500	892	113	76	189	121	111	232
Australia	16,109	15,497	31,606	9,061	6,557	15,618	9,158	6,828	15,986

(a) Under sixteen years of age.

3. Industries Employing Child Labour.—The distribution of children employed in factories in June, 1957, 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, 1957.

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	4,298	765	388,276	47,800	1.11	1.60
Textiles and Textile Goods (not Dress)	502	1,311	29,408	39,491	1.71	3.32
Clothing (except Knitted)	536	2,708	27,334	73,621	1.96	3.68
Food, Drink and Tobacco	1,094	753	88,365	29,358	1.24	2.56
Sawmills, Joinery, Boxes, etc.	690	86	51,504	3,062	1.34	2.81
Furniture of Wood, Bedding, etc.	420	62	15,968	3,682	2.63	1.68
Paper, Stationery, Printing, Bookbinding	706	594	46,142	16,908	1.53	3.51
All other Industries	912	549	133,159	29,044	0.68	1.89
Total	9,158	6,828	780,156	242,966	1.17	2.81

(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. Costs of Production and Value of Output.

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 1956–57 was £4,022,413,044, of which £2,247,183,977 was the value of the materials used, including containers, etc., tools replaced and repairs to plant and buildings, and £153,110,187 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, £1,622,119,880, 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 1956–57 was £891,089,642. This figure, which excludes amounts drawn by working proprietors, was the highest ever recorded and shows an increase of £37,620,170 or 4.41 per cent. on that for the previous year.

2. Salaries and Wages Paid.—(i) *In Classes of Industry, 1956–57.* 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, 1956-57.
(£'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 ..	7,832	5,919	1,515	1,766	1,263	676	18,971
II. Bricks, Pottery, Glass, etc. ..	10,686	5,126	1,036	1,980	1,161	331	20,320
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease ..	20,064	16,311	1,504	2,969	2,638	754	44,240
IV. Industrial Metals, Machines, Conveyances ..	186,755	116,970	28,099	44,623	15,030	8,436	399,913
V. Precious Metals, Jewellery, Plate ..	1,831	2,108	216	316	149	12	4,632
VI. Textiles and Textile Goods (not Dress) ..	16,904	28,269	1,262	2,025	698	2,044	51,202
VII. Skins and Leather (not Clothing or Footwear) ..	4,448	3,856	974	1,119	518	54	10,969
VIII. Clothing (except Knitted) ..	26,451	30,186	4,277	3,005	1,782	499	66,200
IX. Food, Drink and Tobacco ..	31,696	31,404	21,944	8,357	4,857	3,565	101,823
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving ..	16,027	12,127	7,511	3,858	4,323	2,695	46,541
XI. Furniture of Wood, Bedding, etc. ..	6,390	4,619	1,839	1,460	805	315	15,428
XII. Paper, Stationery, Printing, Bookbinding, etc. ..	24,802	19,552	4,076	3,237	2,019	3,675	57,361
XIII. Rubber ..	7,374	6,534	1,286	944	188	134	16,660
XIV. Musical Instruments ..	1,336	252	27	26	23	..	1,664
XV. Miscellaneous Products ..	7,798	8,008	392	546	251	151	17,146
<i>Total, Classes I. to XV.</i>	<i>370,594</i>	<i>291,241</i>	<i>75,958</i>	<i>76,231</i>	<i>35,705</i>	<i>23,341</i>	<i>873,070</i>
XVI. Heat, Light and Power ..	7,738	5,367	1,822	1,587	1,211	295	18,020
Grand Total ..	378,332	296,608	77,780	77,818	36,916	23,636	891,090

(ii) *Totals and Averages, 1938-39 and 1952-53 to 1956-57.*—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.	Q'land.	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
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
1956-57	378,332	296,608	77,780	77,818	36,916	23,636	891,090
AVERAGE PER EMPLOYEE (£).							
1938-39	201.77	185.64	210.78	195.57	207.90	188.31	196.31
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
1956-57	900.06	869.21	789.63	872.87	801.95	886.68	871.98

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 1956-57 were paid in New South Wales, Tasmania and South Australia, 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 1956-57 reached a record level of nearly £872.

(iii) *Total and Average Earnings of Males and Females, 1938-39 and 1952-53 to 1956-57.* 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
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
1956-57	318,612	241,587	69,873	69,645	33,895	20,878	754,490
AVERAGE PER MALE EMPLOYEE (£).							
1938-39	239.24	224.47	238.59	220.95	235.49	212.09	231.84
1952-53	739.77	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
1956-57	1,010.17	981.79	857.48	953.42	856.63	970.11	970.91
FEMALES.							
TOTAL AMOUNT PAID (£'000).							
1938-39	6,334	7,021	967	681	445	246	15,694
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
1956-57	59,720	55,020	7,907	8,174	3,021	2,758	136,600
AVERAGE PER FEMALE EMPLOYEE (£).							
1938-39	103.66	108.25	96.00	86.44	99.58	93.19	103.92
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
1956-57	569.11	578.14	464.68	507.53	467.32	537.11	557.95

(iv) *Managers, Clerical Staff and Other Employees.* A further analysis of salaries and wages paid is given in the following table for 1956-57 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, 1956-57.

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	2,373	394	16,080	124
II. Bricks, Pottery, Glass, etc.	1,776	415	17,391	738
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease	9,983	2,079	28,254	3,924
IV. Industrial Metals, Machines, Conveyances	56,700	12,160	316,462	14,591
V. Precious Metals, Jewellery, Plate	521	203	3,428	480
VI. Textiles and Textile Goods (not Dress)	4,553	1,889	24,461	20,299
VII. Skins and Leather (not Clothing or Footwear)	1,302	260	7,944	1,463
VIII. Clothing (except Knitted)	4,451	2,343	21,048	38,358
IX. Food, Drink and Tobacco	13,017	3,652	71,602	13,552
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving	4,765	1,035	40,173	568
XI. Furniture of Wood, Bedding, etc.	1,490	453	11,992	1,493
XII. Paper, Stationery, Printing, Bookbinding, etc.	7,371	2,423	40,609	6,948
XIII. Rubber	2,378	537	12,173	1,572
XIV. Musical Instruments	224	80	1,137	223
XV. Miscellaneous Products	2,364	776	10,537	3,469
<i>Total, Classes I. to XV.</i>	<i>113,268</i>	<i>28,710</i>	<i>623,290</i>	<i>107,802</i>
XVI. Heat, Light and Power	1,757	66	16,174	23
Grand Total..	115,025	28,776	639,464	107,825
<i>Average paid per employee</i>	<i>£.</i>	<i>£.</i>	<i>£.</i>	<i>£.</i>
	1,300.60	603.20	928.57	547.00

3. Power, Fuel and Light Used.—(i) *In Classes of Industry, 1956–57.* The expenditure by factories on power, fuel and light, including the value of lubricants and water, is of considerable importance; in 1956–57 it amounted to a new high level of £153,110,000, an increase of £13,983,000 as compared with the previous year and almost ten 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), 1956–57.
(£'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 ..	2,714	1,991	752	888	614	338	7,297
II. Bricks, Pottery, Glass, etc. ..	3,609	1,961	401	561	486	162	7,180
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease ..	5,948	6,196	322	805	1,854	307	15,432
IV. Industrial Metals, Machines, Conveyances ..	27,275	6,212	1,774	5,580	1,008	1,670	43,519
V. Precious Metals, Jewellery, Plate ..	133	136	10	38	11	1	329
VI. Textiles and Textile Goods (not Dress) ..	1,549	2,158	63	216	54	194	4,234
VII. Skins and Leather (not Clothing or Footwear) ..	454	469	79	147	69	6	1,224
VIII. Clothing (except Knitted) ..	891	933	172	132	85	40	2,253
IX. Food, Drink and Tobacco ..	6,027	5,651	2,862	1,267	969	487	17,263
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving ..	1,460	649	427	165	315	301	3,317
XI. Furniture of Wood, Bedding, etc. ..	168	111	45	39	23	7	393
XII. Paper, Stationery, Printing, Bookbinding, etc. ..	1,284	1,705	136	267	89	1,253	4,734
XIII. Rubber ..	1,027	983	160	114	23	18	2,325
XIV. Musical Instruments ..	78	13		(b)	(b)		92
XV. Miscellaneous Products ..	509	506	11	55	12	4	1,097
<i>Total, Classes I. to XV.</i>	<i>53,126</i>	<i>29,674</i>	<i>7,215</i>	<i>10,274</i>	<i>5,612</i>	<i>4,788</i>	<i>110,689</i>
XVI. Heat, Light and Power ..	18,319	10,707	5,915	3,856	3,613	11	42,421
Grand Total ..	71,445	40,381	13,130	14,130	9,225	4,799	153,110

(a) Includes value of lubricants and water.

(b) Less than £500.

(ii) *Values of Items, 1956–57.* 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), 1956–57.
(£'000.)

Particulars.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Coal, Black ..	21,338	2,738	7,134	(b) 4,023	2,646	1,227	39,106
Brown ..	..	7,540	..	..	..	..	7,540
Brown Coal Briquettes ..	..	1,696	..	..	..	..	1,696
Coke ..	12,330	1,121	425	3,205	217	288	17,586
Wood ..	444	637	440	404	421	205	2,551
Fuel Oil ..	8,224	11,616	1,311	2,264	2,104	607	26,126
Tar (Fuel) ..	1,101	257	8	88	36	20	1,510
Electricity ..	19,369	10,841	2,801	3,035	1,934	2,114	40,094
Gas ..	3,251	986	147	229	77	39	4,729
Other (Charcoal, etc.) ..	1,861	833	146	339	1,374	122	4,675
Water ..	2,350	1,314	337	324	216	83	4,624
Lubricating Oils ..	1,177	802	381	219	200	94	2,873
Total ..	71,445	40,381	13,130	14,130	9,225	4,799	153,110

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

(b) Includes £1,044,000, the value of 462,000 tons

(iii) *Quantities of Fuel Used, 1956-57.* The following table shows the quantities of fuel used in factories in each State during the year:—

FACTORIES : QUANTITIES OF FUEL USED, 1956-57.

Particulars.	Unit.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Coal, Black	'000 tons	5,560	408	1,639	(a) 955	538	240	9,340
" Brown	"	"	9,058	"	"	"	"	9,058
Brown Coal Briquettes..	"	"	347	"	"	"	"	347
Coke	"	2,033	131	39	335	23	17	2,578
Wood	"	207	324	225	167	322	91	1,336
Fuel Oil	'000 gals.	131,171	212,291	15,311	38,538	28,321	7,338	432,970
Tar (Fuel)	"	34,099	4,985	261	2,184	1,001	420	42,950

(a) Includes 462,000 tons of Leigh Creek coal.

(iv) *Total Value, 1938-39 and 1952-53 to 1956-57.* 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
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	66,469	34,598	11,980	12,830	9,053	4,097	139,027
1956-57	71,445	40,381	13,130	14,130	9,225	4,799	153,110

(a) Includes value of lubricants and water.

4. *Value of Materials Used.*—(i) *In Classes of Industry, 1956-57.* 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 1956-57 reached £2,247,183,000, representing 55.9 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, 1956-57.
(£'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	27,756	11,639	3,572	3,956	2,335	1,175	50,433
II. Bricks, Pottery, Glass, etc.	8,844	5,054	855	1,926	752	237	17,668
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease	106,365	90,825	7,791	12,688	32,999	1,878	252,546
IV. Industrial Metals, Machines, Conveyances	395,935	175,401	48,886	89,579	20,553	18,244	748,598
V. Precious Metals, Jewellery, Plate	1,852	3,156	102	229	71	6	5,416
VI. Textiles and Textile Goods (not Dress)	42,814	71,068	4,997	4,795	4,450	5,639	133,763
VII. Skins and Leather (not Clothing or Footwear)	15,111	12,570	3,389	7,126	1,406	240	39,842
VIII. Clothing (except Knitted)	44,403	47,648	6,217	3,269	2,093	333	103,963
IX. Food, Drink and Tobacco	166,340	174,978	137,672	38,021	27,114	15,606	559,731
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving	38,626	24,513	15,321	10,359	7,118	5,632	101,569
XI. Furniture of Wood, Bedding, etc.	12,722	8,974	3,696	2,668	1,669	463	30,192
XII. Paper, Stationery, Printing, Bookbinding, etc.	45,374	42,933	6,394	5,273	2,964	6,851	109,789
XIII. Rubber	18,137	15,455	3,534	1,521	325	187	39,159
XIV. Musical Instruments	2,989	305	15	6	5	"	3,320
XV. Miscellaneous Products	12,602	16,815	485	963	257	78	31,200
<i>Total, Classes I. to XV.</i>	<i>939,870</i>	<i>701,334</i>	<i>242,926</i>	<i>182,379</i>	<i>104,111</i>	<i>56,569</i>	<i>2,227,189</i>
XVI. Heat, Light and Power	8,523	6,395	2,048	1,830	858	340	19,994
Grand Total	948,393	707,729	244,974	184,209	104,969	56,909	2,247,183

(ii) *Total Amount, 1938-39 and 1952-53 to 1956-57.* The following table shows the value 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
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
1956-57	948,393	707,729	244,974	184,209	104,969	56,909	2,247,183

5. *Value of Output.*—(i) *In Classes of Industry, 1956-57.* The value of the output of factories in the various classes in each State in 1956-57 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, 1956-57.
(£'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	45,799	24,734	7,479	8,781	5,742	2,690	95,225
II. Bricks, Pottery, Glass, etc.	29,297	14,750	3,211	5,796	3,204	856	57,114
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease	175,055	144,750	12,338	21,460	47,589	3,672	404,864
IV. Industrial Metals, Machines, Conveyances	735,809	361,874	94,537	160,790	44,836	35,102	1,432,948
V. Precious Metals, Jewellery, Plate	5,167	6,314	446	769	364	31	13,091
VI. Textiles and Textile Goods (not Dress)	74,370	123,493	7,543	8,257	5,866	9,937	229,466
VII. Skins and Leather (not Clothing or Footwear)	22,157	19,007	4,996	8,884	2,203	342	57,589
VIII. Clothing (except Knitted)	88,551	95,936	13,244	7,766	5,092	1,145	211,734
IX. Food, Drink and Tobacco	246,534	245,863	183,014	54,388	38,619	23,006	791,424
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving	68,573	45,216	28,239	16,898	14,831	10,758	184,515
XI. Furniture of Wood, Bedding, etc.	23,660	17,224	6,825	5,096	3,063	1,047	56,915
XII. Paper, Stationery, Printing, Bookbinding, etc.	92,345	80,931	14,050	11,540	7,063	17,304	223,233
XIII. Rubber	30,028	29,035	6,418	3,328	773	432	70,014
XIV. Musical Instruments	6,283	651	57	40	38	..	7,069
XV. Miscellaneous Products	27,347	32,643	1,158	2,071	693	269	64,181
Total, Classes I. to XV.	1,670,975	1,242,421	383,555	315,864	179,976	106,591	3,899,382
XVI. Heat, Light and Power	55,662	33,720	12,949	9,241	7,660	3,799	123,031
Grand Total	1,726,637	1,276,141	396,504	325,105	187,636	110,390	4,022,413

(ii) *Total, 1938-39 and 1952-53 to 1956-57.* 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
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
1956-57	1,726,637	1,276,141	396,504	325,105	187,636	110,390	4,022,413

6. *Value of Production.*—(i) *In Classes of Industry, 1956-57.* 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. The value of production as given in the following tables is obtained therefore, by deducting only “ value of materials used ” and “ value of fuel used ” from the “ value of output ”.

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, as many miscellaneous expenses such as taxation, insurance, advertising and other sundry charges also have to be taken into account.

The value of factory production, therefore, approximates “ net value added ” in the manufacturing process. It amounted in 1956-57 to £1,622 million to which Class IV., Industrial Metals, etc., with £641 million made the greatest contribution. The total value of production in 1956-57 showed an increase of £121 million (8.16 per cent.) over the figure for 1955-56 and £1,419 million over the value of production recorded in 1938-39.

The following table shows the value of production in 1956-57 in each State for the various classes of industry.

FACTORIES : VALUE OF PRODUCTION, 1956-57.
(‘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	15,329	11,104	3,155	3,937	2,793	1,177	37,495
II. Bricks, Pottery, Glass, etc.	16,844	7,735	1,955	3,309	1,966	457	32,266
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease	62,742	47,729	4,225	7,967	12,736	1,487	136,886
IV. Industrial Metals, Machines, Conveyances	312,599	180,261	43,877	65,631	23,275	15,188	640,831
V. Precious Metals, Jewellery, Plate	3,182	3,022	334	502	282	24	7,346
VI. Textiles and Textile Goods (not Dress)	30,007	50,267	2,483	3,246	1,362	4,104	91,469
VII. Skins and Leather (not Clothing or Footwear)	6,592	5,968	1,528	1,611	728	96	16,523
VIII. Clothing (except Knitted)	43,257	47,355	6,855	4,365	2,914	772	105,518
IX. Food, Drink and Tobacco	74,167	65,234	42,480	15,100	10,536	6,913	214,430
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving	28,487	20,054	12,491	6,374	7,398	4,825	79,629
XI. Furniture of Wood, Bedding, etc.	10,770	8,139	3,084	2,389	1,371	577	26,330
XII. Paper, Stationery, Printing, Bookbinding, etc.	45,687	36,293	7,520	6,000	4,010	9,200	108,710
XIII. Rubber	10,864	12,597	2,724	1,693	425	227	28,530
XIV. Musical Instruments	3,216	333	41	34	33	..	3,657
XV. Miscellaneous Products	14,236	15,322	662	1,053	424	187	31,884
<i>Total, Classes I. to XV.</i>	<i>677,979</i>	<i>511,413</i>	<i>133,414</i>	<i>123,211</i>	<i>70,253</i>	<i>45,234</i>	<i>1,561,504</i>
XVI. Heat, Light and Power	28,820	16,618	4,986	3,555	3,189	3,448	60,616
Grand Total	706,799	528,031	138,400	126,766	73,442	48,682	1,622,520

(ii) *Total and Averages, 1938-39 and 1952-53 to 1956-57.* 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 in 1938-39 to £170.12 in 1956-57. For value per person employed, the increase was not quite so pronounced (from £360 per head in 1938-39 to £1,525 in 1956-57).

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
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
1956-57	706,799	528,031	138,400	126,766	73,442	48,682	1,622,120

PER PERSON EMPLOYED. (£.)

1938-39	395	327	357	315	378	391	360
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	1,487	1,385	1,250	1,306	1,392	1,697	1,415
1956-57	1,620	1,487	1,343	1,378	1,507	1,759	1,525

PER HEAD OF POPULATION. (£.)

1938-39	33.00	35.25	19.14	22.98	18.80	22.72	29.34
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	182.75	191.80	94.69	144.93	104.23	143.90	161.10
1956-57	196.99	200.00	100.26	147.17	107.29	149.27	170.12

7. Value of Output and Cost of Production.—As the total value of the output for Australia for 1956-57 was recorded as £4,022,413,000, there remained, after payment of £2,247,183,000 for the value of the materials used, £891,090,000 for salaries and wages and £153,110,000 for power, fuel and light, a balance of £731,030,000 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 1956-57:—

FACTORIES : VALUE OF OUTPUT AND COST OF PRODUCTION, 1956-57.

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	948,393	71,445	378,332	328,469	1,726,637
Victoria	707,729	40,381	296,608	231,423	1,276,141
Queensland	244,974	13,130	77,780	60,620	396,504
South Australia	184,209	14,130	77,818	48,948	325,105
Western Australia	104,969	9,225	36,916	36,526	187,636
Tasmania	56,909	4,799	23,636	25,046	110,390
Australia	2,247,183	153,110	891,090	731,030	4,022,413

(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 1956-57:—

FACTORIES : VALUE OF LAND, BUILDINGS, PLANT AND MACHINERY(a), 1956-57.
(£'000.)

Value of—	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Land and buildings	303,981	252,024	58,654	55,343	35,520	56,473	761,995
Plant and machinery	363,310	290,785	89,904	71,847	63,272	44,836	923,954
Total ..	667,291	542,809	148,558	127,190	98,792	101,309	1,685,949

(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 1956-57.

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

Class of Industry.	1938-39.	1952-53.	1953-54.	1954-55.	1955-56.	1956-57.
I. Treatment of Non-metalliferous Mine and Quarry Products ..	2,779	7,431	8,091	9,103	11,228	12,686
II. Bricks, Pottery, Glass, etc. ..	2,953	7,723	8,535	9,849	11,301	14,498
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease ..	7,377	30,996	36,931	44,658	61,863	67,719
IV. Industrial Metals, Machines, Conveyances ..	34,841	137,724	159,325	184,934	218,667	252,837
V. Precious Metals, Jewellery, Plate ..	633	2,311	2,523	2,888	3,233	3,525
VI. Textiles and Textile Goods (not Dress) ..	6,000	22,482	25,443	29,651	31,931	37,010
VII. Skins and Leather (not Clothing or Footwear) ..	2,096	5,734	6,072	6,452	6,288	7,074
VIII. Clothing (except Knitted) ..	10,624	26,359	28,584	31,163	33,920	37,203
IX. Food, Drink and Tobacco ..	33,273	78,278	86,625	94,070	108,335	118,413
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving ..	4,107	16,361	18,297	21,225	23,141	25,347
XI. Furniture of Wood, Bedding, etc. ..	2,533	7,256	8,069	8,981	9,915	11,223
XII. Paper, Stationery, Printing, Book-binding, etc. ..	10,639	27,284	30,444	34,156	40,256	44,912
XIII. Rubber ..	1,676	5,530	6,668	7,430	8,581	9,563
XIV. Musical Instruments ..	105	398	468	528	621	987
XV. Miscellaneous Products ..	1,433	6,705	7,570	8,299	9,946	11,491
Total, Classes I. to XV. ..	121,069	382,572	433,645	493,387	579,226	654,488
XVI. Heat, Light and Power ..	9,851	31,874	49,786	62,609	76,356	107,507
Grand Total ..	130,920	414,446	483,431	555,996	655,582	761,995

(a) Includes estimated value of rented premises.

(ii) *In Classes of Industry in States, 1956-57.* The following table gives particulars of the various classes of industry in each State.

FACTORIES : VALUE OF LAND AND BUILDINGS(a), 1956-57.
(£'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 ..	4,749	3,937	844	1,028	1,457	671	12,686
II. Bricks, Pottery, Glass, etc. ..	7,794	3,401	743	1,043	1,274	243	14,498
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease ..	32,930	24,964	1,394	2,740	4,652	1,039	67,719
IV. Industrial Metals, Machines, Conveyances ..	109,591	85,848	15,295	23,092	10,714	8,297	252,837
V. Precious Metals, Jewellery, Plate ..	1,246	1,704	122	258	172	23	3,525
VI. Textiles and Textile Goods (not Dress) ..	12,098	20,803	733	1,649	670	1,057	37,010
VII. Skins and Leather (not Clothing or Footwear) ..	2,832	2,859	354	631	287	111	7,074
VIII. Clothing (except Knitted) ..	15,386	15,329	2,474	1,943	1,559	512	37,203
IX. Food, Drink and Tobacco ..	37,885	39,343	20,055	9,270	7,339	4,521	118,413
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving ..	10,173	6,976	2,384	2,656	1,856	1,302	25,347
XI. Furniture of Wood, Bedding, etc. ..	4,295	3,709	1,357	850	759	253	11,223
XII. Paper, Stationery, Printing, Bookbinding, etc. ..	19,115	15,578	2,818	2,198	1,392	3,811	44,912
XIII. Rubber ..	3,691	3,927	1,022	540	262	121	9,563
XIV. Musical Instruments ..	790	150	9	15	23	..	987
XV. Miscellaneous Products ..	5,095	5,372	271	377	290	86	11,491
Total, Classes I. to XV. ..	267,670	233,900	49,875	48,290	32,706	22,047	654,488
XVI. Heat, Light and Power ..	36,311	18,124	8,779	7,053	2,814	34,426	107,507
Grand Total ..	303,981	252,024	58,654	55,343	35,520	56,473	761,995

(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 1952-53 to 1956-57 :—

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
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
1956-57	303,981	252,024	58,654	55,343	35,520	56,473	761,995

(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, an increase 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 £762.0 million in 1956-57.

3. *Value of Plant and Machinery.*—(i) *Total for Australia, 1938-39 and 1952-53 to 1956-57.* 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.	1952-53.	1953-54.	1954-55.	1955-56.	1956-57.
I. Treatment of Non-metalliferous Mine and Quarry Products ..	7,028	16,155	17,829	20,625	23,512	27,351
II. Bricks, Pottery, Glass, etc. ..	3,145	8,811	9,741	11,000	12,319	13,138
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease ..	6,754	39,024	53,528	97,508	125,016	127,732
IV. Industrial Metals, Machines, Conveyances ..	33,038	131,857	148,178	168,651	202,286	251,161
V. Precious Metals, Jewellery, Plate	197	1,012	1,002	1,094	1,219	1,374
VI. Textiles and Textile Goods (not Dress) ..	6,658	25,030	27,567	29,658	31,155	32,570
VII. Skins and Leather (not Clothing or Footwear) ..	973	3,894	4,034	4,153	4,225	4,332
VIII. Clothing (except Knitted) ..	2,557	11,181	12,363	13,452	14,340	15,699
IX. Food, Drink and Tobacco ..	32,101	77,512	90,624	101,700	115,904	124,406
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving ..	3,907	17,851	19,002	21,827	23,626	25,045
XI. Furniture of Wood, Bedding, etc.	728	2,692	2,870	3,186	3,388	3,632
XII. Paper, Stationery, Printing, Book- binding, etc. ..	9,188	38,129	41,866	46,129	51,405	53,755
XIII. Rubber ..	1,368	4,875	5,677	6,843	8,971	8,626
XIV. Musical Instruments ..	12	305	458	444	509	682
XV. Miscellaneous Products ..	758	5,075	5,968	6,614	7,459	8,515
<i>Total, Classes I. to XV. ..</i>	<i>108,412</i>	<i>383,403</i>	<i>440,707</i>	<i>532,884</i>	<i>625,334</i>	<i>698,018</i>
XVI. Heat, Light and Power ..	35,250	110,131	140,008	165,408	178,206	225,936
Grand Total	143,662	493,534	580,715	698,292	803,540	923,954

(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 1956-57 of £210.4 million over 1955-56 extended over all industrial classes except Class XIII. Rubber. 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 1952–53 to 1956–57. During 1956–57, increases occurred in all States, New South Wales showing the largest increase, £64.4 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
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	54,958	29,879	698,292
1955–56	298,913	258,295	85,777	63,596	56,534	40,425	803,540
1956–57	363,310	290,785	89,904	71,847	63,272	44,836	923,954

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

(iii) *Value according to Class of Industry, 1956–57.* The following table shows the value of plant and machinery used in factories in each State during 1956–57 according to class of industry.

FACTORIES : VALUE OF PLANT AND MACHINERY(a), 1956-57.
(£'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	12,439	6,174	2,421	3,614	1,980	723	27,351
II. Bricks, Pottery, Glass, etc. ..	6,849	3,054	970	857	1,206	202	13,138
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease ..	45,785	48,540	1,923	5,808	22,889	2,787	127,732
IV. Industrial Metals, Machines, Conveyances ..	135,898	62,505	10,307	23,363	8,949	10,139	251,161
V. Precious Metals, Jewellery, Plate ..	547	625	40	105	49	8	1,374
VI. Textiles and Textile Goods (not Dress) ..	10,725	17,948	910	1,091	402	1,494	32,570
VII. Skins and Leather (not Clothing or Footwear) ..	1,749	1,479	404	474	194	32	4,332
VIII. Clothing (except Knitted) ..	5,545	7,234	1,241	898	579	202	15,699
IX. Food, Drink and Tobacco ..	34,393	35,587	36,635	8,293	5,905	3,593	124,406
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving ..	8,709	5,401	3,754	2,165	2,496	2,520	25,045
XI. Furniture of Wood, Bedding, etc. ..	1,287	1,129	481	405	255	75	3,632
XII. Paper, Stationery, Printing, Bookbinding, etc. ..	17,398	21,124	2,911	2,741	1,672	7,909	53,755
XIII. Rubber	3,079	4,202	653	441	156	95	8,626
XIV. Musical Instruments ..	560	114	5	1	2	..	682
XV. Miscellaneous Products ..	3,427	4,510	138	332	82	26	8,515
<i>Total, Classes I. to XV. ..</i>	<i>288,390</i>	<i>219,626</i>	<i>62,793</i>	<i>50,588</i>	<i>46,816</i>	<i>29,805</i>	<i>698,018</i>
XVI. Heat, Light and Power ..	74,920	71,159	27,111	21,259	16,456	15,031	225,936
Grand Total	363,310	290,785	89,904	71,847	63,272	44,836	923,954

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

4. *Depreciation of Land and Buildings and Plant and Machinery, 1956-57.*—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, 1956-57.

(£'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	1,361	540	261	367	170	67	2,766
II. Bricks, Pottery, Glass, etc. ..	729	350	126	89	123	27	1,444
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease ..	4,641	4,973	258	691	2,422	404	13,389
IV. Industrial Metals, Machines, Conveyances ..	12,167	6,208	949	2,688	610	782	23,404
V. Precious Metals, Jewellery, Plate ..	38	48	3	8	3	..	100
VI. Textiles and Textile Goods (not Dress) ..	1,091	2,194	80	69	51	187	3,672
VII. Skins and Leather (not Clothing or Footwear) ..	123	105	27	33	20	2	310
VIII. Clothing (except Knitted) ..	499	620	86	57	47	22	1,331
IX. Food, Drink and Tobacco ..	3,172	3,507	2,995	779	566	351	11,370
X. Sawmills, Joinery, Boxes, etc.	816	537	349	218	248	285	2,453
XI. Furniture of Wood, Bedding, etc. ..	123	76	49	30	23	6	307
XII. Paper, Stationery, Printing, Bookbinding, etc. ..	1,546	2,332	290	240	178	798	5,384
XIII. Rubber ..	799	695	131	103	19	11	1,758
XIV. Musical Instruments ..	58	10	..	..	..	..	68
XV. Miscellaneous Products ..	422	568	13	33	10	3	1,049
<i>Total, Classes I. to XV.</i>	<i>27,585</i>	<i>22,763</i>	<i>5,617</i>	<i>5,405</i>	<i>4,490</i>	<i>2,945</i>	<i>68,805</i>
XVI. Heat, Light and Power ..	6,326	743	1,468	694	764	298	10,293
Grand Total ..	33,911	23,506	7,085	6,099	5,254	3,243	79,098

5. Land and Buildings, Plant and Machinery—Values, Additions and Replacements, Depreciation, 1938-39 and 1952-53 to 1956-57.—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.(a)		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
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
1956-57 ..	761,995	923,954	87,441	195,670	9,196	69,902

(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, 1955 to 1957. 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.	1954-55.	1955-56.	1956-57.
Acid—				
Nitric	Ton	11,777	14,216	15,520
Sulphuric	"	835,146	896,472	878,763
Aerated and Carbonated Waters	'000 gals.	59,648	60,891	61,242
Asbestos Cement Building Sheets	'000 sq. yds.	28,077	26,679	25,444
Bacon and Ham	'000 lb.	78,820	75,641	71,156
Bags, Leather, Fibre, etc.—				
Handbags—				
Leather	No.	935,001	848,144	748,571
Plastic	"	591,485	800,217	922,068
Other	"	125,298	122,228	103,308
School Bags	"	104,993	102,338	92,955
Suitcases(a)	"	1,241,906	1,311,676	1,196,585
Trunks	"	1,348	1,204	1,256
All other	"	335,575	292,042	339,245
Baking Powder	lb.	701,395	617,101	650,272
Bath Heaters—				
Electric	No.	17,886	17,076	14,698
Gas	"	27,626	27,560	25,243
Solid Fuel	"	41,191	40,532	33,691
Bathing Suits	Doz.	222,473	228,089	165,741
Baths, C.I.P.E.	No.	117,414	104,998	88,959
Batteries, Wet Cell type	"	1,501,788	1,403,127	1,433,165
Beer (excluding Waste Beer)	'000 gals.	221,679	227,496	220,728
Biscuits	'000 lb.	150,816	158,554	162,536
Blankets	'000	1,532	1,554	1,678
Boots, Shoes and Slippers (not Rubber)—				
Boots and Shoes	'000 pairs	17,901	18,006	18,930
Sandals	"	1,980	1,809	1,932
Slippers	"	7,324	7,977	7,684
Bran (Wheat)	Ton (2,000 lb.)	272,455	277,638	281,915
Brassieres	Doz.	404,893	421,142	423,441
Bricks, Clay	'000	838,579	840,343	805,069
Brooms	Gross	19,715	19,862	21,003
Brushes (b)	"	86,531	87,594	78,753
Butter	Ton	188,010	205,791	189,841
Candles	Cwt.	10,369	10,011	10,354
Cardigans, Sweaters, etc.	Doz.	1,029,250	1,051,285	1,148,779
Cement, Portland	Ton.	1,919,802	2,034,554	2,172,518
Cheese	"	45,178	38,681	45,171
Cigarettes	'000 lb.	22,859	27,162	30,513
Cleansing and Scouring Powders—				
Soap based (Incl. Sand Soap)	Cwt.	115,350	105,046	78,168
Other	"	43,823	72,230	101,184
Cloth—				
Cotton	'000 sq. yds.	34,424	40,151	46,564
Woolen and Worsted (c)	"	31,067	30,279	32,782
Coke—				
Metallurgical	Ton	2,046,790	2,058,426	2,234,458
Other	"	1,099,859	1,031,135	892,668
Confectionery—				
Chocolate	'000 lb.	56,994	62,405	68,810
Other	"	81,506	83,069	87,395
Coppers—				
Electric	No.	28,381	27,075	21,890
Gas	"	27,400	27,480	24,170
Inserts (all types)	"	86,487	68,827	50,653
Cordials and Syrups	'000 gals.	4,537	4,596	4,623
Corsets and Corselets	Doz.	141,265	156,837	145,414
Cosmetic Creams and Lotions—				
Face Creams	Cwt.	5,110	4,706	4,488
Hand Creams and Lotions	"	6,175	7,141	8,939
Other Skin Creams and Lotions	"	8,221	6,066	6,865
Custard Powder	'000 lb.	5,535	5,942	5,637
Cycles, Assembled	No.	91,125	89,033	74,734

(a) Includes kitbags.

(b) Excludes tooth and industrial metal and bristle brushes.

(c) Includes mixtures.

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

Article.	Unit of Quantity.	1954-55.	1955-56.	1956-57.
Dynamos—				
Alternators	No.	264	289	389
Generators	"	8,473	6,394	6,585
Electricity	Mill. kWh	15,202	16,675	18,289
Enamels, Natural and Synthetic	'000 gals.	3,642	4,126	4,255
Engines—				
Diesel, other than Marine	No.	2,667	2,757	2,642
Petrol—				
Marine	"	1,380	1,246	1,780
Other (a)	"	45,608	100,585	180,509
Essences, Flavouring—				
Domestic	Gal.	116,577	118,642	120,714
Industrial	"	270,348	319,591	345,999
Face Powder	Cwt.	4,336	2,694	2,721
Fans, Electric	No.	63,265	127,659	139,819
Fats, Edible—				
Dripping	Cwt.	367,517	360,835	418,634
Other	"	291,989	369,712	392,169
Fibrous Plaster Sheets	'000 sq. yds.	17,784	18,125	16,257
Fish, Tinned (including Fish Loaf)	'000 lb.	6,646	6,008	8,268
Floorboards—				
Australian Timber	'000 super. ft.	115,640	118,502	124,056
Imported Timber	"	4,474	2,973	2,656
Flour, Self-raising	Cwt.	1,102,480	1,090,005	1,109,307
Flour, Wheaten (b)	Ton (2,000 lb.)	1,553,019	1,571,305	1,631,827
Fruit Juices—Natural	'000 gals.	2,874	3,016	3,298
Gas	Mill. cubic ft.	43,465	44,578	46,653
Gloves—				
Dress—				
Leather	Doz. pairs	6,454	4,115	4,111
Other	"	58,749	52,035	70,654
Work, all types	"	269,408	293,874	276,707
Golf Clubs	Doz.	14,861	12,781	12,443
Handkerchiefs—				
Men's	"	1,313,327	1,181,261	1,118,023
Women's	"	1,375,669	1,264,711	1,489,780
Hats and Caps	"	510,382	483,817	503,240
Hose, Rubber—Garden	'000 lin. ft.	5,071	3,131	3,755
Other	"	9,716	9,449	9,654
Plastic—Garden	"	24,893	25,475	27,585
Ice	Ton	766,557	601,027	485,511
Ice Cream	'000 gals.	14,796	16,018	15,647
Iron and Steel—				
Pig Iron	'000 tons	1,869	1,911	2,098
Steel Ingots	"	2,209	2,320	2,774
Blooms and Billets	"	1,953	2,111	2,288
Irons, Electric (Hand, Domestic)	No.	278,777	327,536	354,099
Jams	'000 lb.	81,699	84,096	92,208
Jelly Crystals	"	11,799	12,793	12,332
Kalsomine	"	3,089	1,918	1,496
Lacquer, Clear and Colours	Gal.	1,476,489	1,498,695	1,451,292
Lard	Cwt.	40,472	42,446	42,762
Lawn Mowers—				
Electric	No.	25,418	18,861	4,496
Petrol	"	29,423	77,929	158,254
Hand	"	106,005	106,712	48,713
Leather—				
Dressed from Hides—Sold by Measurement	'000 sq. ft.	54,069	55,126	56,611
Sold by Weight	'000 lb.	208	132	162
Dressed from Skins	'000 sq. ft.	25,641	23,883	21,978
Harness, Skirt, etc.	'000 lb.	1,433	1,213	2,553
Sole and Belting	"	35,001	33,701	30,583
Upholstery	'000 sq. ft.	7,103	3,389	1,434
Lime—Agricultural	Ton	111,170	123,338	120,298
Hydrated	"	48,644	54,172	52,843
Quick	"	128,639	117,578	109,667
Linseed Oil—extracted from Local Crushing	'000 gals.	438	1,448	1,645
from treatment of Unrefined	"	3,539	2,631	2,326
Lubricating Oil	tons	64,465	67,531	75,339

(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.	1954-55.	1955-56.	1956-57.
Malt, Barley	'000 bus.	7,517	7,782	7,895
Margarine—				
Table	'000 lb.	21,972	26,552	38,632
Other	"	49,171	43,443	44,576
Mattresses—Wire	No.	315,741	296,494	286,191
Inner Spring	"	476,395	501,106	507,844
Soft Filled, etc.	"	380,465	362,937	337,017
Meat, Tinned	'000 lb.	165,394	157,969	154,731
Milk—				
Concentrated (Whole)	"	22,560	31,038	33,924
Condensed	"	86,225	99,368	110,995
Powdered (Whole) (a)	"	59,269	67,361	70,404
Mops, Floor	Gross	13,914	13,768	11,929
Motor Bodies made	No.	127,709	132,085	123,493
Motor Bodies Assembled	"	62,408	94,676	77,548
Motor Spirit (including Benzol)	'000 gals.	412,955	617,356	833,927
Motors, Electric	No.	1,183,066	1,116,840	954,318
Nails	Ton	24,214	25,058	26,340
Neckties	Doz.	491,455	516,835	532,868
Newsprint	Ton	73,608	79,015	79,600
Oatmeal (including Roiled Oats)	Cwt.	322,985	365,980	402,782
Paint—Oil	'000 gals.	6,098	6,553	6,618
Water	'000 lb.	28,955	24,388	24,423
Peanut Butter and Paste	"	4,627	4,736	4,346
Perambulators	No.	155,433	160,374	149,596
Pickles	'000 pints	6,765	7,721	8,119
Pigments—Colours ground in oil	Cwt.	17,592	20,025	13,940
Zinc Oxide	"	184,853	165,300	162,953
White Lead	"			
Other, including Dry Colours	"	389,185	369,613	393,315
Plywood, $\frac{1}{4}$ inch basis	'000 sq. ft.	186,604	200,699	193,838
Pollard	Ton (2,000 lb.)	315,028	332,564	351,549
Preserves—				
Fruit Preserved (b)	'000 'b.	319,235	304,299	289,510
Vegetables Preserved	"	51,116	77,822	98,418
Pyjamas—				
Men's and Boys' (Suits only)	Doz.	339,556	279,734	283,055
Women's and Girls' (inc. Nightdresses)	"	343,464	359,780	399,995
Racquet Frames (all types)	"	18,361	16,651	16,147
Refrigerators—Commercial	No.	1,656	1,756	1,025
Domestic	"	280,577	247,360	195,517
Rice (Cleaned)	Cwt.	916,702	1,166,027	897,030
Ropes and Cables (excluding Wire)	"	125,727	128,873	131,746
Rugs	'000	141	142	163
Sauce	'000 pints	28,482	28,668	33,494
Sausage Casings	Cwt.	72,377	79,769	95,218
Semolina	"	103,553	129,536	140,536
Shirts (Men's and Boys')	Doz.	1,410,573	1,309,501	1,425,312
Sink Heaters	No.	23,799	24,842	23,635
Soap and Detergents—				
Soap—Personal Toilet	Cwt.	342,741	327,949	320,846
Household	"	747,487	744,109	716,565
Industrial (Incl. Wool Scouring) (c)	"	172,998	197,590	194,476
Extracts and Powders—Household	"	926,156	822,988	791,267
Industrial	"	81,338	87,455	75,694
Detergents—Personal Toilet	"	7,932	6,000	8,763
Household	"	99,225	91,901	114,510
Industrial	"	19,777	22,499	34,460
Extracts and Powders—				
Household	"		34,698	78,089
Industrial	"	44,369	39,131	45,558
Socks and Stockings—				
Men's and Youths'	'000 Doz. pairs	1,497	1,396	1,454
Women's and Maids'	"	2,422	2,304	2,570
Infants' and Babywear (including Anklets)	"	1,294	1,227	1,191
Soup—Tinned	'000 pints	27,616	35,316	44,538
Dry-Mix	'000 lb.	2,893	3,771	4,525
Spades and Shovels	Doz.	32,058	33,873	33,255
Starch—Edible	Cwt.	357,557	391,766	468,308
Inedible	"	92,004	96,929	124,895
Steel, Structural, Fabricated	Ton	162,793	218,124	245,101
Stoves, Ovens and Ranges—				
Domestic Cooking—				
Electric (d)	No.	85,589	92,258	99,086
Gas	"	58,758	57,097	54,966
Solid Fuel	"	49,758	47,300	46,005
Sugar—Raw (94 net titre)	Ton	1,327,546	1,171,713	1,207,797
Refined	"	481,639	482,660	480,393
Sulphate of Ammonia	"	78,434	75,321	110,898
Superphosphate	"	1,960,605	2,125,803	1,975,015

(a) Includes malted milk and infants' and invalids' foods. (b) Includes canned apple, all types. (c) Includes industrial flakes and chips. (d) Includes stovettes, cookers, etc.

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

Article.	Unit of Quantity.	1954-55.	1955-56.	1956-57.
Talcum Powder	Cwt.	30,454	35,824	35,084
Tallow—				
Edible	"	507,477	681,057	612,722
Inedible	"	1,126,770	1,346,145	1,630,892
Television Sets	No.	..	(a) 2,636	121,232
Tiles, Roofing—				
Cement	'000	53,720	53,782	44,595
Terracotta	"	63,934	64,746	57,673
Timber—				
From Native Logs—				
Hardwood	'000 super. ft.	1,184,992	1,180,936	1,151,429
Softwood	"	264,296	268,785	267,431
From Imported Logs—				
Hardwood	"	28,748	27,894	26,853
Softwood	"	156,037	173,549	174,531
Toasters, Electric (Domestic)	No.	21,466	18,836	18,917
Tobacco	'000 lb.	1,237,714	1,208,758	1,508,439
Tomato Juice	Gal.	666,403	767,751	740,344
Towels	Doz.	3,099	3,462	4,048
Transformers and Converters—				
Above 20 k.v.a.	No.	375,717	628,147	821,581
Below 20 k.v.a.	"	116,059	133,694	131,424
Twine (all types)	Cwt.	2,737,172	2,907,492	2,711,087
Tyres, Pneumatic—				
Motor Car and Motor Cycle	No.	587,739	544,807	536,384
Truck and Omnibus	"	190,365	184,273	190,577
All Other (excl. Bicycle)	"	478,144	570,156	622,554
Umbrellas	'000 doz.	4,328	4,460	4,687
Underwear				
Vacuum Cleaners (Domestic)	No.	59,968	55,674	83,910
Varnishes	'000 gals.	3,188	4,167	3,533
Washing Machines, Household, Electric	No.	166,312	165,558	144,422
Weatherboards—				
Australian Timber	'000 super. ft.	23,529	23,910	22,937
Imported Timber	"	3,264	2,150	1,759
Wheatmeal(b)	Ton (2,000 lb.)	128,863	110,635	123,854
Wheelbarrows (Metal)	No.	84,631	73,031	66,999
Wireless—				
Cabinets—				
Wood	"	86,210	(c) 101,454	} (c) 429,647
Other	"	310,684	281,685	
Receiving Sets (including Radiograms)	"	456,034	458,012	366,282
Wool Scoured—				
For Sale	'000 lb.	40,994	38,808	43,632
For use in own works	"	37,610	40,875	47,625
On Commission	"	57,643	65,025	74,506
Wool Tops	"	30,886	35,640	42,661
Yarn(d)				
Cotton	"	41,493	40,543	41,981
Woollen	"	19,790	20,033	22,884
Worsted	"	22,897	23,180	24,818
Zinc Oxide (See Pigments)				

(a) Production commenced late in 1955-56. Number produced in 1957-58 was 285,315.
(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 on pages 154-181, §§ 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".

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 151.

Details of some of the principal articles produced in factories in Australia during the years 1954-55 to 1956-57 are shown in the table on 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 1956-57 and for a series of years in the following table.

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

AUSTRALIA, 1956-57.

Items.	Portland Cement.	Asbestos Cement Sheets and Mouldings.	Other Cement Goods.	Total.
Number of factories	15	14	450	479
Number of persons employed	3,043	2,448	5,197	10,688
Salaries and wages paid £'000	3,047	2,542	4,723	10,312
Value of power, fuel, etc., used £'000	4,634	271	214	5,119
Value of materials used £'000	6,503	5,003	11,720	23,226
Value of production £'000	7,942	4,266	9,020	21,228
Total value of output £'000	19,079	9,540	20,954	49,573
Value of land and buildings £'000	3,369	1,090	2,535	6,994
Value of plant and machinery £'000	13,552	1,713	3,189	18,454
Horse-power of engines ordinarily in use .. h.p.	79,178	10,579	16,048	105,805

AUSTRALIA.

Items.	1938-39.	1952-53.	1953-54.	1954-55.	1955-56.	1956-57.
Number of factories	132	504	479	480	489	479
Number of persons employed	3,932	9,352	9,304	10,444	11,167	10,688
Salaries and wages paid £'000	897	6,942	7,435	8,704	10,044	10,312
Value of power, fuel, etc., used £'000	562	3,436	3,950	4,445	4,792	5,119
Value of materials used £'000	1,542	14,303	16,013	19,418	21,999	23,226
Value of production £'000	2,385	12,197	14,198	17,009	19,460	21,228
Total value of output £'000	4,489	29,936	34,161	40,872	46,251	49,573
Value of land and buildings £'000	1,350	3,890	4,206	4,726	6,128	6,994
Value of plant and machinery £'000	2,516	10,018	10,796	13,208	15,542	18,454
Horse-power of engines ordinarily in use h.p.	39,617	91,880	89,260	95,870	108,715	105,805

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 1956-57 with comparable 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).
1956-57.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	144	80	19	15	11	1	270
Number of persons employed	6,372	6,603	319	891	(a)	(a)	14,509
Salaries and wages paid £'000	6,859	6,392	282	881	(a)	(a)	14,684
Value of power, fuel, etc., used £'000	2,131	980	71	558	(a)	(a)	3,845
Value of materials used £'000	21,649	14,410	532	1,206	(a)	(a)	38,335
Value of production £'000	18,296	12,552	612	2,543	(a)	(a)	34,513
Total value of output £'000	42,076	27,942	1,215	4,307	(a)	(a)	76,693
Value of land and buildings £'000	9,235	7,240	224	788	(a)	(a)	17,831
Value of plant and machinery £'000	16,025	10,836	210	1,579	(a)	(a)	29,190
Horse-power of engines ordinarily in use h.p.	49,966	47,573	1,828	5,242	(a)	(a)	107,787

AUSTRALIA.

Items.	1945-46.	1952-53.	1953-54.	1954-55.	1955-56.	1956-57.
Number of factories	165	229	234	248	258	270
Number of persons employed	10,228	11,253	11,765	13,032	14,107	14,509
Salaries and wages paid £'000	3,450	8,928	9,907	11,833	13,574	14,684
Value of power, fuel, etc., used £'000	618	2,210	2,757	3,043	3,462	3,845
Value of materials used £'000	6,007	19,538	25,158	29,004	33,506	38,335
Value of production £'000	6,627	16,879	20,643	25,095	29,895	34,513
Total value of output £'000	13,252	38,627	48,558	57,142	66,863	76,693
Value of land and buildings £'000	11,697	11,923	13,389	14,190	15,987	17,831
Value of plant and machinery £'000	10,964	19,612	23,573	25,607	27,125	29,190
Horse-power of engines ordinarily in use h.p.	69,399	85,254	90,807	95,188	101,527	107,787

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

PHARMACEUTICAL AND TOILET PREPARATIONS.

1956-57.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	125	59	5	13	3	1	206
Number of persons employed	3,237	2,537	118	473	(a)	(a)	6,446
Salaries and wages paid £'000	2,388	2,202	70	309	(a)	(a)	5,020
Value of power, fuel, etc., used £'000	86	192	1	31	(a)	(a)	312
Value of materials used £'000	7,726	6,006	297	1,163	(a)	(a)	15,292
Value of production £'000	10,835	5,468	175	696	(a)	(a)	17,312
Total value of output £'000	18,647	11,666	473	1,890	(a)	(a)	32,916
Value of land and buildings £'000	3,425	3,880	61	310	(a)	(a)	7,828
Value of plant and machinery £'000	1,123	1,432	17	142	(a)	(a)	2,746
Horse-power of engines ordinarily in use h.p.	4,018	10,965	74	1,469	(a)	(a)	16,666

AUSTRALIA.

Items.	1945-46.	1952-53.	1953-54.	1954-55.	1955-56.	1956-57.
Number of factories	215	206	208	210	206	206
Number of persons employed	5,514	5,363	6,012	6,233	6,400	6,446
Salaries and wages paid £'000	1,699	3,468	3,898	4,255	4,635	5,020
Value of power, fuel, etc., used £'000	57	197	238	223	259	312
Value of materials used £'000	5,402	9,784	12,017	12,729	13,565	15,292
Value of production £'000	4,790	10,188	12,969	14,380	15,279	17,312
Total value of output £'000	10,249	20,169	25,224	27,332	29,103	32,916
Value of land and buildings £'000	1,534	3,931	4,755	6,022	6,830	7,828
Value of plant and machinery £'000	598	1,569	1,793	2,129	2,686	2,746
Horse-power of engines ordinarily in use h.p.	6,324	12,238	12,777	13,592	14,301	16,666

(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 1956-57 and for Australia for a series of years.

WHITE LEAD, PAINTS AND VARNISH.
1956-57.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	85	57	17	14	10	3	186
Number of persons employed ..	3,101	1,724	334	530	(a)	(a)	5,815
Salaries and wages paid .. £'000	3,011	1,657	264	473	(a)	(a)	5,508
Value of power, fuel, etc., used £'000	269	80	20	25	(a)	(a)	400
Value of materials used .. £'000	12,370	6,708	1,671	2,535	(a)	(a)	23,916
Value of production .. £'000	6,580	3,814	1,086	1,668	(a)	(a)	13,567
Total value of output .. £'000	19,219	10,602	2,777	4,228	(a)	(a)	37,883
Value of land and buildings .. £'000	2,640	2,808	298	662	(a)	(a)	6,680
Value of plant and machinery .. £'000	1,311	1,527	166	339	(a)	(a)	3,408
Horse-power of engines ordinarily in use h.p.	13,947	8,735	1,452	2,080	(a)	(a)	26,969

AUSTRALIA.

Items.	1938-39.	1952-53.	1953-54.	1954-55.	1955-56.	1956-57.
Number of factories	102	175	174	175	178	186
Number of persons employed ..	2,271	4,622	4,934	5,322	5,804	5,815
Salaries and wages paid .. £'000	535	3,346	3,757	4,636	5,300	5,508
Value of power, fuel, etc., used .. £'000	45	258	337	376	384	400
Value of materials used .. £'000	2,275	14,657	18,603	21,553	23,504	23,916
Value of production .. £'000	1,585	3,583	9,891	11,980	12,874	13,567
Total value of output .. £'000	3,905	23,498	28,831	33,909	36,762	37,883
Value of land and buildings .. £'000	761	3,669	4,066	5,089	5,563	6,680
Value of plant and machinery .. £'000	324	2,113	2,230	2,892	3,261	3,408
Horse-power of engines ordinarily in use h.p.	7,696	22,769	22,719	24,178	25,050	26,969

(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 1956-57 and for Australia for a series of years :—

SOAP AND CANDLES.
1956-57.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	44	25	9	5	3	1	87
Number of persons employed ..	1,790	671	264	124	(a)	(a)	2,932
Salaries and wages paid .. £'000	1,554	785	200	105	(a)	(a)	2,704
Value of power, fuel, etc., used .. £'000	170	181	22	14	(a)	(a)	393
Value of materials used .. £'000	6,738	4,398	723	289	(a)	(a)	12,437
Value of production .. £'000	5,880	2,516	498	160	(a)	(a)	9,150
Total value of output .. £'000	12,788	7,095	1,243	463	(a)	(a)	21,980
Value of land and buildings .. £'000	688	812	150	76	(a)	(a)	1,784
Value of plant and machinery .. £'000	1,182	1,658	182	58	(a)	(a)	3,150
Horse-power of engines ordinarily in use h.p.	5,743	3,450	853	575	(a)	(a)	10,922

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

AUSTRALIA.

Items.	1938-39.	1952-53.	1953-54.	1954-55.	1955-56.	1956-57.
Number of factories	65	89	89	91	92	87
Number of persons employed ..	2,620	3,028	3,058	2,962	3,167	2,932
Salaries and wages paid .. £'000	501	2,460	2,544	2,589	2,858	2,704
Value of power, fuel, etc., used .. £'000	76	475	427	420	406	393
Value of materials used .. £'000	1,568	8,846	10,214	11,941	12,057	12,437
Value of production .. £'000	1,886	6,324	6,732	7,425	8,147	9,150
Total value of output .. £'000	3,530	15,645	17,373	19,786	20,610	21,980
Value of land and buildings .. £'000	666	1,487	1,565	1,619	1,743	1,784
Value of plant and machinery .. £'000	577	1,985	2,244	2,653	3,001	3,150
Horse-power of engines ordinarily in use h.p.	5,267	8,606	8,795	8,676	10,711	10,922
Materials used—						
Tallow cwt.	535,511	1,024,772	1,120,828	1,151,146	1,162,578	1,152,865
Alkali for Soap (a) cwt.	194,869	386,176	377,451	421,401	390,756	366,796
Coconut oil—refined and unrefined .. cwt.	138,954	95,825	86,576	93,498	83,346	80,262
Articles produced—						
Soap (excl. Sand Soap) cwt.	908,797	1,179,871	1,225,183	1,263,226	1,260,648	1,231,890
Cleansers and Scourers (incl. Sand Soap) cwt.	123,702	123,429	121,232	115,350	105,046	78,168
Soap Extracts and Powders cwt.	191,232	885,158	890,241	1,007,494	910,443	866,958
Candles made cwt.	28,649	14,256	8,611	10,369	10,011	10,354

(a) Includes Soda Ash.

NOTE.—Preliminary figures of production in 1957-58 were Soap, 1,304,000 cwt.; Cleansers and Scourers, 72,000 cwt.; and Soap Extracts and Powders, 876,000 cwt.

6. Chemical Fertilizers.—The following table shows particulars of the factories engaged in the manufacture of chemical fertilizers in each State during 1956-57 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.

1956-57.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	15	8	8	8	6	7	52
Number of persons employed ..	932	1,563	(a)	952	942	(a)	5,074
Salaries and wages paid .. £'000	996	1,597	(a)	933	839	(a)	5,069
Value of power, fuel, etc., used £'000	475	243	(a)	100	149	(a)	1,160
Value of materials used .. £'000	3,868	6,966	(a)	5,724	5,428	(a)	25,479
Value of production .. £'000	1,940	3,235	(a)	1,815	2,024	(a)	10,158
Total value of output .. £'000	6,283	10,444	(a)	7,639	7,601	(a)	36,797
Value of land and buildings £'000	2,932	871	(a)	654	1,885	(a)	7,341
Value of plant and machinery £'000	2,753	1,300	(a)	3,346	1,977	(a)	11,404
Horse-power of engines ordinarily in use h.p.	17,163	14,649	(a)	9,154	8,180	(a)	59,457

AUSTRALIA.

Items.	1938-39.	1952-53.	1953-54.	1954-55.	1955-56.	1956-57.
Number of factories	36	51	51	53	54	52
Number of persons employed ..	2,540	4,483	4,531	4,735	4,911	5,074
Salaries and wages paid .. £'000	601	3,759	3,988	4,372	4,809	5,069
Value of power, fuel, etc., used £'000	114	786	842	852	939	1,160
Value of materials used .. £'000	3,231	21,100	20,521	21,519	24,098	25,479
Value of production .. £'000	1,600	7,255	8,109	8,794	10,267	10,158
Total value of output .. £'000	4,945	29,141	29,472	31,165	35,304	36,797
Value of land and buildings £'000	1,449	4,794	6,067	6,512	7,033	7,341
Value of plant and machinery £'000	2,353	6,218	8,067	9,270	11,645	11,404
Horse-power of engines ordinarily in use h.p.	18,165	39,850	41,644	47,595	58,044	59,457

(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 1956-57 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.

1956-57.

Items.	N.S.W.	Vic.	Q'land.	S.A.	W.A.	Tas.	Aust.
Number of factories	17	11	..	4	2	..	34
Number of persons employed ..	24,168	1,396	..	(a)	(a)	..	26,078
Salaries and wages paid .. £'000	26,779	1,396	..	(a)	(a)	..	28,636
Value of power, fuel, etc., used £'000	17,890	347	..	(a)	(a)	..	20,538
Value of materials used .. £'000	134,029	1,342	..	(a)	(a)	..	136,483
Value of production .. £'000	62,657	1,869	..	(a)	(a)	..	66,385
Total value of output .. £'000	214,576	3,558	..	(a)	(a)	..	223,406
Value of land and buildings £'000	8,449	285	..	(a)	(a)	..	9,054
Value of plant and machinery £'000	58,177	368	..	(a)	(a)	..	61,608
Horse-power of engines ordinarily in use h.p.	424,669	7,866	..	(a)	(a)	..	448,541

AUSTRALIA.

Items.	1945-46.	1952-53.	1953-54.	1954-55.	1955-56.	1956-57.
Number of factories	27	32	33	(b) 28	34
Number of persons employed	10,413	16,188	16,688	17,842	26,978
Salaries and wages paid .. £'000	..	4,164	14,455	15,609	18,238	28,636
Value of power, fuel, etc., used .. £'000	..	2,777	14,085	15,430	15,670	20,538
Value of materials used .. £'000	..	19,134	76,983	88,802	94,928	101,416
Value of production £'000	..	7,393	27,336	27,995	34,381	44,269
Total value of output £'000	..	29,304	118,404	132,227	144,979	163,549
Value of land and buildings .. £'000	..	2,197	5,278	6,508	6,615	6,457
Value of plant and machinery .. £'000	..	5,669	20,753	24,279	26,394	29,154
Horse-power of engines ordinarily in use .. h.p.	..	198,317	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 183 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 1956-57 and for Australia in selected years in the following table:—

FOUNDRIES—FERROUS.
1956-57.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	85	217	23	24	19	..	368
Number of persons employed	2,712	3,055	818	529	519	..	7,633
Salaries and wages paid £'000	2,600	2,877	664	478	441	..	7,060
Value of power, fuel, etc., used £'000	331	380	53	91	120	..	975
Value of materials used £'000	1,870	2,885	685	418	363	..	6,221
Value of production £'000	3,644	4,214	1,044	711	622	..	10,235
Total value of output £'000	5,845	7,479	1,782	1,220	1,105	..	17,431
Value of land and buildings £'000	1,292	1,850	471	147	139	..	3,899
Value of plant and machinery £'000	987	1,764	465	161	168	..	3,545
Horse-power of engines ordinarily in use h.p.	10,971	12,910	3,493	2,590	2,871	..	32,835

AUSTRALIA.

Items.	1945-46.	1952-53.	1953-54.	1954-55.	1955-56.	1956-57.
Number of factories	312	373	357	368	373	368
Number of persons employed	5,344	6,584	6,611	7,099	7,434	7,633
Salaries and wages paid £'000	1,612	4,989	5,129	6,116	6,706	7,060
Value of power, fuel, etc., used £'000	161	642	702	796	918	975
Value of materials used £'000	1,210	4,026	4,057	4,881	5,396	6,221
Value of production £'000	2,341	7,337	7,469	8,983	9,652	10,235
Total value of output £'000	3,712	12,005	12,228	14,660	15,966	17,431
Value of land and buildings £'000	988	2,144	2,299	2,623	3,564	3,899
Value of plant and machinery £'000	619	1,923	2,123	2,342	3,234	3,545
Horse-power of engines ordinarily in use h.p.	13,381	24,467	25,415	26,451	30,738	32,835

(iv) *Plant, Equipment and Machinery (including Machine Tools)*. The next table shows particulars for this group for each State during 1956-57 and for Australia in selected years.

PLANT, EQUIPMENT AND MACHINERY (INCLUDING MACHINE TOOLS).
1956-57.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	1,089	696	147	176	100	4	2,212
Number of persons employed	26,983	24,380	6,542	8,235	(a)	(a)	69,476
Salaries and wages paid £'000	26,680	23,016	5,274	7,512	(a)	(a)	65,272
Value of power, fuel, etc., used £'000	1,045	954	222	416	(a)	(a)	2,775
Value of materials used £'000	40,972	35,400	6,589	12,358	(a)	(a)	99,172
Value of production £'000	44,543	38,193	7,857	12,142	(a)	(a)	106,922
Total value of output £'000	86,560	74,547	14,668	24,916	(a)	(a)	208,869
Value of land and buildings £'000	16,559	14,987	2,056	3,783	(a)	(a)	39,692
Value of plant and machinery £'000	11,771	10,810	1,793	3,097	(a)	(a)	29,112
Horse-power of engines ordinarily in use h.p.	88,715	76,412	18,320	28,175	(a)	(a)	222,937

AUSTRALIA.

Items.	1945-46.	1952-53.	1953-54.	1954-55.	1955-56.	1956-57.
Number of factories	1,038	1,787	1,911	1,980	2,062	2,212
Number of persons employed	46,123	60,140	60,840	64,588	68,699	69,476
Salaries and wages paid £'000	14,259	45,414	47,620	54,561	61,872	65,272
Value of power, fuel, etc., used £'000	605	2,095	2,219	2,378	2,570	2,775
Value of materials used £'000	16,455	63,134	68,288	80,462	93,510	99,172
Value of production £'000	21,044	70,790	75,997	87,040	98,574	106,922
Total value of output £'000	38,104	136,019	146,504	169,880	194,654	208,869
Value of land and buildings £'000	7,227	22,332	25,259	28,687	34,019	39,692
Value of plant and machinery £'000	7,046	19,784	21,335	23,548	26,261	29,112
Horse-power of engines ordinarily in use h.p.	101,810	197,031	198,300	201,626	217,880	222,937

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

(v) *Other Engineering*. Details covering jobbing and general engineering works not elsewhere included are shown for each State for 1956-57 and for Australia in selected years in the following table.

OTHER ENGINEERING.
1956-57.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	789	784	156	188	156	93	2,166
Number of persons employed ..	6,646	8,395	1,601	3,821	965	1,720	23,148
Salaries and wages paid .. £'000	5,757	7,444	1,226	3,446	685	1,479	20,037
Value of power, fuel, etc., used .. £'000	210	231	37	100	33	63	674
Value of materials used .. £'000	6,634	7,570	1,502	4,140	827	1,647	22,320
Value of production .. £'000	9,732	11,607	1,952	4,957	1,098	2,222	31,568
Total value of output .. £'000	16,576	19,408	3,491	9,197	1,958	3,932	54,562
Value of land and buildings .. £'000	4,267	5,059	699	2,279	560	937	13,801
Value of plant and machinery .. £'000	2,712	3,726	555	1,428	302	717	9,440
Horse-power of engines ordinarily in use .. h.p.	19,444	25,679	4,292	13,342	3,469	6,028	72,254

AUSTRALIA.

Items.	1945-46.	1952-53.	1953-54.	1954-55.	1955-56.	1956-57.
Number of factories	963	1,975	2,041	2,128	2,220	2,166
Number of persons employed ..	13,112	20,005	20,981	22,540	24,445	23,148
Salaries and wages paid .. £'000	3,634	13,804	15,100	17,491	20,477	20,037
Value of power, fuel, etc., used .. £'000	162	460	530	599	698	674
Value of materials used .. £'000	3,599	14,041	16,427	20,834	24,534	22,320
Value of production .. £'000	5,432	21,551	23,755	28,025	32,949	31,568
Total value of output .. £'000	9,193	36,052	40,712	49,458	58,181	54,562
Value of land and buildings .. £'000	2,369	8,285	9,900	11,289	13,205	13,801
Value of plant and machinery .. £'000	2,091	6,366	7,044	8,070	9,363	9,440
Horse-power of engines ordinarily in use .. h.p.	26,095	59,024	62,774	66,406	78,246	72,254

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 1956-57 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 earlier years.

EXTRACTING AND REFINING OF NON-FERROUS METALS: ALLOYS.
1956-57.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	25	22	5	2	1	3	58
Number of persons employed ..	1,354	299	646	(b)	(b)	(b)	7,212
Salaries and wages paid .. £'000	1,599	317	863	(b)	(b)	(b)	8,720
Value of power, fuel, etc., used .. £'000	554	49	799	(b)	(b)	(b)	4,282
Value of materials used .. £'000	13,108	3,037	16,042	(b)	(b)	(b)	68,426
Value of production .. £'000	4,083	753	2,303	(b)	(b)	(b)	19,773
Total value of output .. £'000	17,745	3,839	19,144	(b)	(b)	(b)	92,481
Value of land and buildings .. £'000	872	325	992	(b)	(b)	(b)	6,566
Value of plant and machinery .. £'000	1,441	185	1,356	(b)	(b)	(b)	14,485
Horse-power of engines ordinarily in use .. h.p.	9,987	814	10,473	(b)	(b)	(b)	76,212

AUSTRALIA.

Items.	1938-39.	1952-53.	1953-54.	1954-55.	1955-56.	1956-57.
Number of factories	42	59	59	62	56	58
Number of persons employed ..	5,532	6,958	6,592	6,782	7,029	7,212
Salaries and wages paid .. £'000	1,613	6,085	6,069	6,432	7,434	8,720
Value of power, fuel, etc., used .. £'000	598	2,803	3,063	3,253	3,753	4,282
Value of materials used .. £'000	16,844	44,481	53,711	62,859	70,000	68,426
Value of production .. £'000	3,892	14,163	12,648	14,148	17,787	19,773
Total value of output .. £'000	21,334	61,447	69,422	80,260	91,540	92,481
Value of land and buildings .. £'000	1,177	2,669	2,743	3,044	6,155	6,566
Value of plant and machinery .. £'000	3,526	4,371	5,390	6,019	13,367	14,485
Horse-power of engines ordinarily in use .. h.p.	54,450	70,424	65,067	66,280	79,696	76,212

(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 1956-57 and for Australia for a series of years.

ELECTRICAL MACHINERY, CABLES AND APPARATUS.
1956-57.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories ..	542	380	72	71	71	17	1,153
Number of persons employed ..	29,562	10,697	1,721	1,609	(a)	(a)	44,594
Salaries and wages paid .. £'000	26,367	9,071	1,338	1,252	(a)	(a)	38,780
Value of power, fuel, etc., used .. £'000	1,425	439	34	36	(a)	(a)	1,964
Value of materials used .. £'000	53,911	16,518	3,254	1,512	(a)	(a)	76,256
Value of production .. £'000	44,415	13,605	2,147	1,709	(a)	(a)	63,198
Total value of output .. £'000	99,751	30,562	5,435	3,257	(a)	(a)	141,418
Value of land and buildings .. £'000	15,528	7,871	677	647	(a)	(a)	25,306
Value of plant and machinery .. £'000	10,790	4,636	457	304	(a)	(a)	16,409
Horse-power of engines ordinarily in use .. h.p.	60,918	22,657	4,685	2,044	(a)	(a)	91,991

AUSTRALIA.

Items.	1938-39.	1952-53.	1953-54.	1954-55.	1955-56.	1956-57.
Number of factories ..	360	965	1,028	1,064	1,099	1,153
Number of persons employed ..	10,666	31,949	38,377	42,007	43,841	44,594
Salaries and wages paid .. £'000	2,031	22,903	28,969	33,403	36,663	38,780
Value of power, fuel, etc., used .. £'000	105	991	1,391	1,651	1,808	1,964
Value of materials used .. £'000	3,195	36,668	58,237	69,962	75,129	76,256
Value of production .. £'000	3,655	38,633	49,032	54,637	57,036	63,198
Total value of output .. £'000	6,955	76,292	108,660	126,250	133,973	141,418
Value of land and buildings .. £'000	1,627	11,270	13,829	16,885	19,992	25,306
Value of plant and machinery .. £'000	897	8,168	9,709	11,915	13,854	16,409
Horse-power of engines ordinarily in use h.p.	12,043	66,512	74,088	81,058	83,279	91,991

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

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 1956-57) controlled by non-public bodies are not included in the figures below:—*

TRAMCARS AND RAILWAY ROLLING STOCK.(a)
1956-57.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories ..	41	22	13	15	27	7	125
Number of persons employed ..	15,548	7,580	6,671	4,292	(b)	(b)	38,780
Salaries and wages paid .. £'000	14,197	6,554	5,418	3,772	(b)	(b)	33,670
Value of power, fuel, etc., used .. £'000	439	204	137	140	(b)	(b)	1,099
Value of materials used .. £'000	7,734	5,417	3,276	2,790	(b)	(b)	21,565
Value of production .. £'000	16,704	8,878	6,326	4,699	(b)	(b)	41,172
Total value of output .. £'000	24,879	14,499	9,739	7,629	(b)	(b)	63,827
Value of land and buildings .. £'000	6,061	1,918	799	1,492	(b)	(b)	11,494
Value of plant and machinery .. £'000	9,273	1,075	1,087	1,877	(b)	(b)	14,673
Horse-power of engines ordinarily in use .. h.p.	43,872	23,005	17,491	24,096	(b)	(b)	122,852

AUSTRALIA.

Items.	1938-39.	1952-53.	1953-54.	1954-55.	1955-56.	1956-57.
Number of factories ..	117	123	124	123	125	125
Number of persons employed ..	27,310	39,073	39,262	38,599	38,357	38,780
Salaries and wages paid .. £'000	6,721	28,002	28,425	30,777	33,159	33,670
Value of power, fuel, etc., used .. £'000	226	907	994	1,025	1,061	1,099
Value of materials used .. £'000	4,976	16,706	17,093	18,818	20,555	21,565
Value of production .. £'000	8,021	33,875	34,354	37,505	40,404	41,172
Total value of output .. £'000	13,223	51,488	52,441	57,348	62,020	63,827
Value of land and buildings .. £'000	6,737	9,279	9,730	10,524	11,076	11,494
Value of plant and machinery .. £'000	5,390	10,701	12,166	13,124	14,072	14,673
Horse-power of engines ordinarily in use h.p.	53,671	98,251	108,478	112,184	116,775	122,852

(a) Government and Local Authority only.

(b) Not available for publication, figures included in the total for Australia.

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 1956-57 for each branch of industry associated with the motor trade of Australia.

MOTOR VEHICLES : CONSTRUCTION, ASSEMBLY, REPAIRS, ETC., AUSTRALIA.
1956-57.

Items.	Construction and Assembly.	Repairs.	Motor Bodies. (a)	Motor Accessories.	Total.
Number of factories	70	8,556	1,457	251	10,334
Number of persons employed	16,908	55,478	25,460	9,634	107,480
Salaries and wages paid £'000	16,144	38,987	22,515	8,636	86,282
Value of power, fuel, etc., used £'000	1,029	1,217	896	605	3,747
Value of materials used £'000	25,495	41,640	42,586	10,576	120,297
Value of production £'000	25,131	59,736	32,958	14,193	132,018
Total value of output £'000	51,655	102,593	76,440	25,374	256,062
Value of land and buildings £'000	14,260	45,997	12,786	5,774	78,817
Value of plant and machinery £'000	12,908	11,713	10,247	6,022	40,890
Horse-power of engines ordinarily in use h.p.	53,957	60,113	56,696	36,026	206,792

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

In the next table, similar details are shown on a State basis for 1956-57 and for Australia for selected years for these industries combined.

MOTOR VEHICLES : CONSTRUCTION, ASSEMBLY, REPAIRS, ETC.
1956-57.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	4,221	2,656	1,303	933	930	291	10,334
Number of persons employed	35,602	36,406	10,633	16,494	6,233	2,112	107,480
Salaries and wages paid £'000	27,801	30,520	7,024	14,845	4,565	1,527	86,282
Value of power, fuel, etc., used £'000	1,186	1,513	216	607	185	40	3,747
Value of materials used £'000	38,585	39,308	7,721	26,160	6,839	1,684	120,297
Value of production £'000	44,870	45,270	12,677	19,631	7,209	2,361	132,018
Total value of output £'000	84,641	86,091	20,614	46,398	14,233	4,085	256,062
Value of land and buildings £'000	29,307	28,658	5,908	8,314	4,708	1,922	78,817
Value of plant and machinery £'000	12,511	16,539	1,939	7,849	1,655	397	40,890
Horse-power of engines ordinarily in use h.p.	60,845	76,342	12,442	41,846	13,100	2,217	206,792

AUSTRALIA.

Items.	1945-46.	1952-53.	1953-54.	1954-55.	1955-56.	1956-57.
Number of factories	3,592	7,422	8,302	8,993	9,707	10,334
Number of persons employed	39,706	82,609	89,913	98,343	105,959	107,480
Salaries and wages paid £'000	10,582	54,666	62,454	73,073	84,082	86,282
Value of power, fuel, etc., used £'000	395	1,987	2,477	2,798	3,189	3,747
Value of materials used £'000	12,143	74,405	94,173	108,119	126,933	120,297
Value of production £'000	15,818	86,305	101,054	112,541	126,459	132,018
Total value of output £'000	28,356	162,697	197,704	223,458	256,581	256,062
Value of land and buildings £'000	9,878	38,718	45,835	55,451	66,235	78,817
Value of plant and machinery £'000	3,758	20,129	23,397	26,073	32,390	40,890
Horse-power of engines ordinarily in use h.p.	56,117	139,253	146,930	160,001	202,963	206,792

The table below shows the production and imports of motor bodies for 1938-39 and 1952-53 to 1957-58 :-

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

Items.	1938-39.	1952-53.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58.
Motor Bodies(a)--							(b)
Made No.	79,436	90,822	114,378	127,709	132,085	123,187	163,994
Assembled from Panels imported or made elsewhere No.	(c)	21,566	43,077	62,408	94,676	77,548	83,819
Imported (d) No.	532	7,568	26,874	37,924	19,041	7,062	5,890

(a) Excludes sidecars. (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 1956-57 and for Australia for a series of years.

AGRICULTURAL MACHINES AND IMPLEMENTS.
1956-57.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	135	97	47	37	32	..	348
Number of persons employed	2,091	5,060	1,353	1,520	363	..	10,387
Salaries and wages paid.. £'000	1,847	4,668	1,032	1,251	309	..	9,107
Value of power, fuel, etc., used							
£'000	87	346	53	84	11	..	581
Value of materials used .. £'000	1,895	6,447	1,055	1,445	242	..	11,084
Value of production .. £'000	2,667	7,621	1,499	1,809	442	..	14,038
Total value of output .. £'000	4,649	14,414	2,607	3,338	695	..	25,703
Value of land and buildings £'000	2,051	2,454	635	672	341	..	6,153
Value of plant and machinery £'000	1,013	2,726	438	513	110	..	4,800
Horse-power of engines ordinarily in use h.p.	7,359	20,920	5,311	5,646	1,018	..	40,254

AUSTRALIA.

Items.	1938-39.	1952-53.	1953-54.	1954-55.	1955-56.	1956-57.
Number of factories	161	270	293	308	324	348
Number of persons employed	6,563	11,608	11,930	12,182	11,938	10,387
Salaries and wages paid £'000	1,373	3,838	9,473	10,206	10,364	9,107
Value of power, fuel, etc., used £'000	82	600	637	695	670	581
Value of materials used £'000	1,485	11,103	12,988	13,572	13,082	11,084
Value of production £'000	1,836	12,787	13,924	14,558	14,650	14,038
Total value of output £'000	3,403	24,490	27,549	28,825	28,402	25,703
Value of land and buildings £'000	997	3,701	3,918	5,038	5,774	6,153
Value of plant and machinery £'000	911	3,526	3,627	4,282	4,673	4,800
Horse-power of engines ordinarily in use h.p.	13,346	37,372	39,843	39,858	39,878	40,254

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. 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. The number of broadcast listeners' licences increased from a third of a million in 1930-31 to nearly 2,138,000 at 30th June, 1958 and this increase reflects the advancement of the industry during that period. At 30th June, 1958, 291,000 television viewers' licences had been issued.

WIRELESS AND AMPLIFYING APPARATUS : AUSTRALIA.

Items.	1938-39.	1952-53.	1953-54.	1954-55.	1955-56.	1956-57.
Number of factories	72	149	162	175	181	205
Number of persons employed	4,828	6,912	8,125	8,550	9,171	12,074
Salaries and wages paid £'000	754	4,707	5,751	6,398	7,051	9,145
Value of power, fuel, etc., used £'000	23	179	199	205	231	312
Value of materials used £'000	1,356	7,661	9,782	10,076	10,363	16,801
Value of production £'000	1,123	6,042	7,454	8,624	8,907	11,767
Total value of output £'000	2,502	13,882	17,435	18,905	19,501	28,880
Value of land and buildings £'000	558	1,713	2,011	2,300	3,428	4,752
Value of plant and machinery £'000	305	969	1,132	1,242	1,761	3,101
Horse-power of engines ordinarily in use h.p.	2,710	10,596	9,274	8,930	9,624	11,658
Wireless receiving sets made(a) No.	163,821	298,955	438,978	456,034	458,012	366,282
Television receiving sets made No.	..	..	..	..	2,636	121,232

(a) Including radiograms and car radios.

NOTE.—There were 380,000 wireless receiving sets (including radiograms) and 285,000 television receiving sets made in 1957-58.

14. Cotton.—(i) *General.* Cotton has been grown in Australia since 1860, but never on a very large scale. The average annual quantity of unginning cotton produced during the five years ended 1938-39 was 18 million lb. and slightly over 4 million lb. in the five years ended 1956-57. 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 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 1957-58) 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 1952-53 to 1956-57.

COTTON SPINNING AND WEAVING : AUSTRALIA.

Items.	1938-39.	1952-53.	1953-54.	1954-55.	1955-56.	1956-57.
Number of factories	33	93	96	96	97	91
Number of persons employed	3,589	7,673	9,470	9,582	9,598	9,754
Salaries and wages paid £'000	493	5,090	6,602	6,845	7,297	7,799
Value of power, fuel, etc., used £'000	50	551	690	706	703	890
Value of materials used £'000	1,357	14,747	18,083	18,505	18,571	19,485
Value of production £'000	979	8,126	10,809	11,343	12,227	14,202
Total value of output £'000	2,386	23,424	29,582	30,554	31,501	34,577
Value of land and buildings £'000	704	3,951	4,104	5,078	5,719	6,478
Value of plant and machinery £'000	736	4,370	4,411	4,355	4,637	5,312
Horse-power of engines ordinarily in use h.p.	9,128	36,517	33,201	34,356	34,657	34,568

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.

1956-57.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	44	84	4	3	3	5	143
Number of persons employed	6,595	12,013	974	640	(a)	(a)	23,217
Salaries and wages paid £'000	4,524	8,925	560	426	(a)	(a)	16,340
Value of power, fuel, etc., used £'000	417	812	38	47	(a)	(a)	1,479
Value of materials used £'000	13,553	24,716	2,340	1,234	(a)	(a)	49,303
Value of production £'000	7,153	14,674	1,339	646	(a)	(a)	27,649
Total value of output £'000	21,123	40,202	3,717	1,927	(a)	(a)	78,431
Value of land and buildings £'000	2,431	5,533	190	252	(a)	(a)	9,019
Value of plant and machinery £'000	3,077	6,264	327	282	(a)	(a)	10,855
Horse-power of engines ordinarily in use h.p.	17,556	69,834	3,555	1,876	(a)	(a)	99,385

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

WOOL CARDING, SPINNING AND WEAVING—*continued.*

AUSTRALIA.

Items.	1938-39. (a)	1952-53.	1953-54.	1954-55.	1955-56.	1956-57.
Number of factories	90	171	164	151	145	143
Number of persons employed	19,608	19,729	22,619	21,844	21,899	23,217
Salaries and wages paid £'000	2,888	12,028	14,382	13,945	14,409	16,340
Value of power, fuel, etc., used £'000	393	1,175	1,329	1,288	1,345	1,479
Value of materials used £'000	7,331	34,655	45,033	38,938	39,532	49,303
Value of production £'000	4,791	19,226	23,237	21,898	24,082	27,649
Total value of output £'000	12,515	55,056	69,599	62,124	64,959	78,431
Value of land and buildings £'000	2,380	6,242	6,894	7,369	7,713	9,019
Value of plant and machinery £'000	3,370	8,183	9,086	10,053	10,673	10,855
Horse-power of engines ordinarily in use h.p.	42,944	67,911	68,715	66,817	71,752	99,385
Articles produced—						
Woollen and worsted cloth (b)(c) '000 sq. yds.	31,768	29,400	35,027	31,067	30,279	32,731
Blankets and rugs (b) '000	1,279	1,035	1,340	1,673	1,799	1,841

(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 1956-57 and for Australia for a series of years are shown in the following table :—

HOSIERY AND OTHER KNITTED GOODS.

1956-57.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	207	429	6	10	10	3	665
Number of persons employed	7,280	15,224	584	114	199	91	23,492
Salaries and wages paid £'000	4,987	10,521	333	53	104	54	16,052
Value of power, fuel, etc., used £'000	235	491	8	2	4	4	744
Value of materials used £'000	10,682	22,112	1,560	79	244	92	34,769
Value of production £'000	9,282	18,997	461	79	151	65	29,035
Total value of output £'000	20,199	41,600	2,029	160	399	161	64,548
Value of land and buildings £'000	2,915	6,666	177	42	101	38	9,939
Value of plant and machinery £'000	2,334	5,504	210	25	49	21	8,143
Horse-power of engines ordinarily in use h.p.	6,485	15,213	697	222	202	92	22,911

AUSTRALIA.

Items.	1938-39.	1952-53.	1953-54.	1954-55.	1955-56.	1956-57.
Number of factories	313	587	645	661	664	665
Number of persons employed	18,159	20,694	23,937	24,614	23,409	23,492
Salaries and wages paid £'000	2,332	11,641	14,277	15,117	15,117	16,052
Value of power, fuel, etc., used £'000	133	588	684	656	687	744
Value of materials used £'000	4,284	23,939	30,372	31,317	31,822	34,769
Value of production £'000	3,809	21,164	26,155	27,535	27,236	29,035
Total value of output £'000	8,226	45,691	57,211	59,508	59,745	64,548
Value of land and buildings £'000	1,962	6,329	7,253	8,643	9,339	9,939
Value of plant and machinery £'000	1,931	6,038	7,201	7,917	8,159	8,143
Horse-power of engines ordinarily in use h.p.	8,884	17,997	18,478	20,884	20,315	22,911

The following quantities of yarn were used in these establishments during 1956-57:—Worsted or woollen, 8,536,251 lb.; mixtures predominantly woollen or worsted, 1,064,164 lb.; cotton, 9,618,390 lb.; mercerised cotton, 322,135 lb.; cotton and rayon, 11,600 lb.; rayon, spun, 888,478 lb.; rayon filament, 3,646,371 lb.; silk, 4,132 lb.; nylon, spun, 936,332 lb.; nylon filament, 2,358,728 lb.; other yarns, 677,159 lb. Production of garments and stockings is shown in ¶10 (*see p. 182*).

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.

1956-57.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories ..	65	40	13	9	5	1	133
Number of persons employed ..	1,782	1,994	583	199	(a)	(a)	4,746
Salaries and wages paid .. £'000	1,722	1,851	473	183	(a)	(a)	4,383
Value of power, fuel, etc., used £'000	188	185	40	21	(a)	(a)	446
Value of materials used .. £'000	4,773	4,409	1,576	538	(a)	(a)	11,738
Value of production .. £'000	2,130	2,388	699	329	(a)	(a)	5,736
Total value of output .. £'000	7,091	6,982	2,315	888	(a)	(a)	17,920
Value of land and buildings £'000	968	1,074	107	87	(a)	(a)	2,314
Value of plant and machinery £'000	891	906	257	149	(a)	(a)	2,264
Horse-power of engines ordinarily in use .. h.p.	11,622	12,669	3,711	1,691	(a)	(a)	30,799

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

AUSTRALIA.

Items.	1938-39.	1952-53.	1953-54.	1954-55.	1955-56.	1956-57.
Number of factories ..	132	141	142	140	137	133
Number of persons employed ..	4,375	5,240	5,445	5,393	4,972	4,746
Salaries and wages paid .. £'000	920	4,163	4,464	4,518	4,468	4,383
Value of power, fuel, etc., used .. £'000	88	382	417	408	415	446
Value of materials used .. £'000	2,983	9,488	10,477	10,675	11,180	11,738
Value of production .. £'000	1,522	5,983	6,672	6,743	6,082	5,736
Total value of output .. £'000	4,593	15,853	17,566	17,826	17,677	17,920
Value of land and buildings .. £'000	814	1,983	2,055	2,219	2,176	2,314
Value of plant and machinery .. £'000	524	1,832	1,990	2,128	2,231	2,264
Horse-power of engines ordinarily in use h.p.	12,345	30,314	31,182	31,708	31,590	30,799

(ii) *Materials Used and Articles Produced.* The quantities of materials used and leather produced in tanneries in each State in 1956-57 are shown in the following table :—

TANNERIES : MATERIALS USED AND PRODUCTION, 1956-57.

Particulars.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Materials used—							
Hides (cattle)—							
Yearling .. No.	124,377	36,609	11,363	(a)	(a)	(a)	180,858
Light Hides(b) ..	310,574	525,593	193,975	63,742	(a)	(a)	1,148,427
Heavy Hides(c) ..	428,302	476,953	193,594	63,041	(a)	(a)	1,226,784
Skins—							
Calf ..	714,367	278,914	102,296	(a)	(a)	(a)	1,097,011
Goat ..	(a)	(a)	(a)	(a)	(a)	(a)	391,664
Sheep including Pelts ..	2,004,556	457,069	(a)	(a)	(a)	(a)	2,951,531
Marsupial ..	24,877	(a)	(a)	(a)	(a)	(a)	89,137
Bark used—							
Wattle .. tons	2,133	5,092	847	(a)	(a)	(a)	8,838
Mallet and Other ..	(a)	(a)	(a)	(a)	(a)	(a)	901
Tanning extract (veg.) used ..	2,231	2,917	1,823	(a)	799	(a)	8,163
Articles produced—							
Leather made—							
Sole .. lb.	8,189,254	13,976,306	5,947,926	(a)	1,881,759	(a)	30,583,326
Harness, Belting, etc. ..	656,124	422,132	(a)	(a)	(a)	(a)	2,553,279
Upholstery .. sq. ft.	(a)	1,005,848	(a)	(a)	(a)	(a)	1,433,819
Dressed and Upper from Hides—							
Sold by Measurement—							
Patent .. sq. ft.	(a)	1,684,902	(a)	(a)	(a)	(a)	2,796,060
All Other ..	20,336,902	19,685,917	8,320,415	3,835,492	(a)	(a)	53,814,694
Sold by Weight (all kinds) .. lb.	47,903	(a)	(a)	(a)	(a)	(a)	162,160
Dressed from skins—							
Calf .. sq. ft.	4,488,142	2,096,728	678,054	(a)	(a)	(a)	7,272,663
Goat ..	1,768,157	(a)	(a)	(a)	(a)	(a)	1,875,547
Sheep ..	8,100,665	1,142,573	(a)	(a)	(a)	(a)	11,221,661
Marsupial ..	122,481	650,442	(a)	(a)	(a)	(a)	960,174

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

(b) Up to 45 lb.

(c) Over 45 lb.

18. **Tailoring and Ready-made Clothing.**—Statistics showing the distribution of this industry among the States in 1956-57 and for Australia for a series of years are shown in the following table :—

TAILORING AND READY-MADE CLOTHING.

1956-57.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	964	621	125	101	119	14	1,944
Number of persons employed ..	17,202	10,163	2,218	1,419	736	182	31,920
Salaries and wages paid £'000	10,091	6,497	1,019	720	336	97	18,760
Value of power, fuel, etc., used £'000	217	144	23	20	10	2	416
Value of materials used £'000	19,020	13,078	2,319	850	542	74	35,883
Value of production £'000	15,930	10,481	1,717	1,001	552	130	29,811
Total value of output £'000	35,167	23,703	4,059	1,871	1,104	206	66,110
Value of land and buildings £'000	5,061	3,420	642	588	361	65	10,137
Value of plant and machinery £'000	1,506	1,067	141	96	42	9	2,861
Horse-power of engines ordinarily in use h.p.	4,952	3,099	506	383	166	27	9,133

AUSTRALIA.

Items.	1938-39.	1952-53.	1953-54.	1954-55.	1955-56.	1956-57.
Number of factories	1,177	1,961	1,963	1,985	1,952	1,944
Number of persons employed	26,499	32,209	33,264	33,384	32,587	31,920
Salaries and wages paid £'000	3,168	15,681	17,215	17,968	18,261	18,760
Value of power, fuel, etc., used £'000	72	363	380	390	393	416
Value of materials used £'000	4,947	28,767	33,598	34,237	35,941	35,883
Value of production £'000	4,812	23,581	26,076	28,031	28,940	29,811
Total value of output £'000	9,831	52,711	60,054	62,658	65,274	66,110
Value of land and buildings £'000	3,176	7,573	8,251	8,917	9,484	10,137
Value of plant and machinery £'000	356	2,469	2,523	2,663	2,746	2,861
Horse-power of engines ordinarily in use h.p.	2,607	10,693	9,339	9,198	9,017	9,133

19. **Dressmaking and Millinery Establishments.**—Particulars of dressmaking and millinery establishments in Australia for the years 1938-39 and 1952-53 to 1956-57 are shown in the following table :—

DRESSMAKING AND MILLINERY : AUSTRALIA.

Items.	1938-39.	1952-53.	1953-54.	1954-55.	1955-56.	1956-57.
Number of factories	869	1,405	1,433	1,411	1,410	1,311
Number of persons employed	16,398	18,913	19,197	18,014	17,675	16,265
Salaries and wages paid £'000	1,653	8,490	9,230	8,975	9,063	8,783
Value of power, fuel, etc., used £'000	33	170	187	176	177	185
Value of materials used £'000	2,610	11,746	13,634	13,109	13,029	12,447
Value of production £'000	2,592	13,193	14,392	14,501	14,585	14,244
Total value of output £'000	5,235	25,109	28,213	27,786	27,791	26,876
Value of land and buildings £'000	2,052	4,726	5,033	5,256	5,788	5,966
Value of plant and machinery £'000	189	1,065	1,108	1,123	1,174	1,152
Horse-power of engines ordinarily in use h.p.	1,732	4,790	4,858	4,740	4,697	4,635

20. **Shirts, Collars and Underclothing.**—Particulars of this industry are shown below for each State for 1956-57 and for Australia for a series of years :—

SHIRTS, COLLARS AND UNDERCLOTHING.

1956-57.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	163	176	19	23	14	2	397
Number of persons employed	4,509	6,625	1,053	424	(a)	(a)	13,157
Salaries and wages paid £'000	2,653	4,036	492	206	(a)	(a)	7,640
Value of power, fuel, etc., used £'000	51	61	8	4	(a)	(a)	129
Value of materials used £'000	6,785	8,140	748	259	(a)	(a)	16,285
Value of production £'000	4,184	6,452	699	294	(a)	(a)	12,051
Total value of output £'000	11,020	14,653	1,455	557	(a)	(a)	28,465
Value of land and buildings £'000	1,345	1,814	179	91	(a)	(a)	3,543
Value of plant and machinery £'000	480	615	66	25	(a)	(a)	1,229
Horse-power of engines ordinarily in use h.p.	1,680	2,905	258	158	(a)	(a)	5,177

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

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

Items.	1938-39.	1952-53.	1953-54.	1954-55.	1955-56.	1956-57.
Number of factories	283	379	379	392	404	397
Number of persons employed	11,081	9,657	11,156	12,745	12,686	13,157
Salaries and wages paid £'000	1,143	4,397	5,684	6,702	6,957	7,640
Value of power, fuel, etc., used £'000	23	76	92	106	119	129
Value of materials used £'000	2,651	9,670	12,077	15,020	16,112	16,285
Value of production £'000	1,761	7,524	9,377	10,927	11,328	12,051
Total value of output £'000	4,435	17,270	21,546	26,053	27,559	28,465
Value of land and buildings £'000	946	2,151	2,417	2,719	2,999	3,543
Value of plant and machinery £'000	231	846	905	1,053	1,146	1,229
Horse-power of engines ordinarily in use h.p.	1,874	4,779	4,320	4,468	4,881	5,177

21. Boots and Shoes.—(i) *Details of Industry.* Boot and shoe factories hold an important place in respect of both 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 210.

BOOTS AND SHOES.
1956-57.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.(a)	Aust.
Number of factories	176	222	29	18	11	18	474
Number of persons employed	6,996	11,136	1,416	1,162	592	130	21,432
Salaries and wages paid £'000	5,026	7,974	896	867	383	88	15,234
Value of power, fuel, etc., used £'000	88	134	12	14	7	2	257
Value of materials used £'000	6,958	12,027	1,441	1,223	439	133	22,221
Value of production £'000	7,155	11,171	1,102	1,132	530	132	21,222
Total value of output £'000	14,201	23,332	2,555	2,369	976	267	43,700
Value of land and buildings £'000	1,528	2,023	206	295	166	49	4,267
Value of plant and machinery £'000	816	2,081	330	339	128	21	3,715
Horse-power of engines ordinarily in use h.p.	4,672	9,265	958	880	600	121	16,496

AUSTRALIA.

Items.	1945-46.	1952-53.	1953-54.	1954-55.	1955-56.	1956-57.
Number of factories	383	509	520	516	494	474
Number of persons employed	18,264	20,920	22,953	22,323	21,557	21,432
Salaries and wages paid £'000	4,408	12,430	14,215	14,241	14,310	15,234
Value of power, fuel, etc., used £'000	75	197	225	227	233	257
Value of materials used £'000	7,520	17,668	20,508	21,020	21,812	22,221
Value of production £'000	6,472	17,162	19,444	19,640	20,480	21,222
Total value of output £'000	14,067	35,027	40,177	40,887	42,525	43,700
Value of land and buildings £'000	1,518	3,227	3,491	3,733	3,846	4,267
Value of plant and machinery £'000	1,222	2,653	3,152	3,380	3,646	3,715
Horse-power of engines ordinarily in use h.p.	9,678	18,214	16,679	17,488	16,485	16,496

(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 1956-57 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, 1956-57.

Particulars.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Boots, shoes and sandals pairs	7,145,572	10,125,340	1,410,572	1,530,667	(a)	(a)	20,861,361
Slippers .. pairs	12,976,752	20,202,844	2,214,450	2,310,565	(a)	(a)	38,621,389
£	1,847,941	5,055,132	338,467	69,546	373,138	..	7,684,224
£	1,459,911	2,771,413	203,523	38,619	245,298	..	4,718,764

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

Preliminary figures for 1957-58 were—Boots, Shoes and Sandals, 21,541,000 pairs; and Slippers, 8,905,000 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 1956-57 and for Australia for a series of years:—

FLOUR-MILLING.

1956-57.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	46	34	11	22	20	10	143
Number of persons employed ..	1,663	1,391	571	463	504	137	4,729
Salaries and wages paid .. £'000	1,681	1,244	477	421	422	130	4,375
Value of power, fuel, etc., used	£'000 408	223	90	93	115	17	946
Value of materials used .. £'000	21,942	17,797	6,061	5,889	6,280	1,125	59,094
Value of production .. £'000	4,599	2,417	961	689	759	183	9,608
Total value of output .. £'000	26,949	20,437	7,112	6,671	7,154	1,325	69,648
Value of land and buildings £'000	2,160	1,565	789	312	786	74	5,686
Value of plant and machinery £'000	2,461	1,353	753	418	624	81	5,690
Horse-power of engines ordinarily in use h.p.	17,423	15,404	4,799	3,891	5,407	1,179	48,103

AUSTRALIA.

Items.	1938-39.	1952-53.	1953-54.	1954-55.	1955-56.	1956-57.
Number of factories	172	158	157	151	151	143
Number of persons employed ..	3,783	4,892	4,602	4,528	4,548	4,729
Salaries and wages paid .. £'000	896	3,884	3,847	3,851	4,073	4,375
Value of power, fuel, etc., used .. £'000	231	866	847	805	835	946
Value of materials used .. £'000	10,573	51,373	53,946	54,436	54,498	59,094
Value of production .. £'000	2,091	8,296	8,134	7,311	7,575	9,608
Total value of output .. £'000	12,895	60,535	62,927	62,552	62,908	69,648
Value of land and buildings .. £'000	2,091	3,912	4,260	4,533	5,211	5,686
Value of plant and machinery .. £'000	1,814	4,531	4,921	5,060	5,405	5,690
Horse-power of engines ordinarily in use h.p.	27,795	44,781	52,545	46,566	47,786	48,103

(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 1952-53 to 1957-58 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
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 ..	621,476	461,663	170,397	164,417	184,717	29,157	1,631,827
1957-58 (b) ..	398,525	478,520	143,247	139,601	168,869	28,350	1,357,112

(a) Includes wheatmeal for baking and sharps.

(b) Preliminary, subject to revision.

In addition, 633,000 tons (2,000 lb. per ton) of bran and pollard were produced in 1956-57 and 500,000 tons in 1957-58. The total quantity of wheat ground in flour mills was 74,203,000 bushels in 1956-57 and 62,820,000 bushels in 1957-58.

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).

1956-57.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.(a)	Aust.
Number of factories	1,542	1,052	497	270	299	153	3,813
Number of persons employed ..	7,535	5,694	2,344	1,606	1,058	1,727	19,964
Salaries and wages paid .. £'000	4,890	3,618	1,224	1,015	582	1,334	12,663
Value of power, fuel, etc., used £'000	947	661	237	178	120	165	2,308
Value of materials used .. £'000	15,149	10,682	4,320	3,300	2,165	5,088	40,704
Value of production .. £'000	11,341	8,824	2,939	2,302	1,470	2,830	29,706
Total value of output .. £'000	27,437	20,167	7,496	5,780	3,755	8,083	72,718
Value of land and buildings £'000	7,238	5,728	1,310	1,360	888	1,467	17,991
Value of plant and machinery £'000	3,960	3,325	874	888	599	944	10,590
Horse-power of engines ordinarily in use h.p.	10,557	7,486	2,952	2,950	1,942	4,317	30,204

AUSTRALIA.(a)

Items.	1938-39.	1952-53.	1953-54.	1954-55.	1955-56.	1956-57.
Number of factories	1,958	3,534	3,687	3,800	3,878	3,813
Number of persons employed	11,715	18,405	18,758	19,125	19,543	19,964
Salaries and wages paid £'000	1,993	9,368	9,954	10,648	11,611	12,663
Value of power, fuel, etc., used £'000	306	1,694	1,805	1,902	2,090	2,308
Value of materials used £'000	6,651	29,672	32,829	35,899	37,820	40,704
Value of production £'000	4,509	21,788	23,107	23,582	26,418	29,706
Total value of output £'000	11,466	53,154	57,741	61,383	66,328	72,718
Value of land and buildings £'000	4,960	12,145	13,617	14,352	15,865	17,991
Value of plant and machinery £'000	1,478	6,073	7,158	8,373	9,461	10,590
Horse-power of engines ordinarily in use h.p.	10,855	23,792	26,462	27,815	29,535	30,204

(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 1952–53 to 1956–57 :—

SUGAR-MILLS.

Items.	1938–39.	1952–53.	1953–54.	1954–55.	1955–56.	1956–57.
NEW SOUTH WALES.						
Number of factories ..	3	3	3	3	3	3
Number of persons employed ..	212	138	156	187	152	153
Cane crushed .. tons	337,038	125,714	263,249	222,313	284,539	294,087
Raw sugar produced (94 net titre) .. tons	45,106	14,272	34,004	26,301	36,028	35,918
QUEENSLAND.						
Number of factories ..	33	31	31	31	31	31
Number of persons employed ..	4,419	6,495	7,358	7,272	7,044	7,099
Cane crushed .. tons	5,432,193	6,841,536	8,751,063	9,864,304	8,616,163	8,978,081
Raw sugar produced (94 net titre) .. tons	775,064	934,614	1,220,383	1,301,245	1,135,685	1,171,879
Molasses—						
Sold to distilleries .. '000 gals	8,276	15,774	23,323	23,167	22,772	24,034
Used as fodder .. " "	4,237	5,887	5,486	5,753	5,285	5,522
Used as manure .. " "	3,293	7,499	11,466	10,501	10,637	9,154
Run to waste .. " "	499	76	168	233	185	51
Burnt as fuel .. " "	3,749	934	183	1,079	1,519	1,402
Sold or used for other purposes .. '000 gals	232	426	516	473	588	521
Total molasses disposed of .. '000 gals	20,286	30,596	41,142	41,206	40,986	40,684

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 1956–57, 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 499,289 tons for a yield of 480,393 tons of refined sugar.

26. *Confectionery.*—The figures for 1956–57 for each State and for Australia for a series of years are shown hereunder :—

CONFECTIONERY.

1956–57.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.(b)
Number of factories ..	91	82	18	16	6	(a)	213
Number of persons employed ..	3,044	2,938	210	327	299	(a)	6,818
Salaries and wages paid .. £'000	2,333	2,068	97	191	177	(a)	4,866
Value of power, fuel, etc., used £'000	259	205	8	21	16	(a)	509
Value of materials used .. £'000	8,051	6,092	279	504	465	(a)	15,391
Value of production .. £'000	5,549	3,525	230	274	307	(a)	9,885
Total value of output .. £'000	13,859	9,822	517	799	788	(a)	25,785
Value of land and buildings .. £'000	1,411	1,412	124	208	84	(a)	3,239
Value of plant and machinery .. £'000	1,608	1,705	72	121	76	(a)	3,582
Horse-power of engines ordinarily in use .. h.p.	12,308	12,816	413	1,342	469	(a)	27,348

AUSTRALIA.(b)

Items.	1938–39.	1952–53.	1953–54.	1954–55.	1955–56.	1956–57.
Number of factories ..	148	256	249	238	226	213
Number of persons employed ..	7,256	6,873	6,976	7,069	7,183	6,818
Salaries and wages paid .. £'000	1,041	4,084	4,382	4,516	4,805	4,866
Value of power, fuel, etc., used .. £'000	107	436	444	447	473	509
Value of materials used .. £'000	3,102	12,554	13,857	14,917	15,583	15,391
Value of production .. £'000	2,418	7,910	8,307	8,320	8,932	9,885
Total value of output .. £'000	5,627	20,900	22,608	23,684	24,988	25,785
Value of land and buildings .. £'000	1,423	2,510	2,650	2,964	3,324	3,239
Value of plant and machinery .. £'000	1,364	2,872	3,039	3,368	3,612	3,582
Horse-power of engines ordinarily in use .. h.p.	16,154	26,002	28,763	27,374	29,156	27,348

(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 1956–57 and for Australia for a series of years :—

**JAM, FRUIT AND VEGETABLE CANNING, PICKLES, SAUCES, VINEGAR.
1956–57.**

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	59	60	15	19	9	20	182
Number of persons employed ..	2,880	4,965	1,531	1,369	151	1,123	12,019
Salaries and wages paid .. £'000	2,324	4,321	1,110	983	98	862	9,698
Value of power, fuel, etc., used £'000	253	481	75	68	8	72	957
Value of materials used .. £'000	8,725	20,746	5,038	2,942	399	2,024	39,874
Value of production £'000	4,550	9,230	1,820	1,693	208	1,291	18,792
Total value of output £'000	13,528	30,457	6,933	4,703	615	3,387	59,623
Value of land and buildings .. £'000	2,001	5,633	741	461	140	814	9,790
Value of plant and machinery .. £'000	1,600	5,297	475	489	45	846	8,752
Horse-power of engines ordinarily in use h.p.	9,577	27,465	2,971	1,931	337	3,539	45,820

AUSTRALIA.

Items.	1938–39.	1952–53.	1953–54.	1954–55.	1955–56.	1956–57.
Number of factories	123	204	197	184	183	182
Number of persons employed ..	6,476	10,845	11,101	11,061	11,578	12,019
Salaries and wages paid £'000	1,149	9,391	7,870	7,945	8,924	9,698
Value of power, fuel, etc., used .. £'000	97	636	660	699	802	957
Value of materials used £'000	4,800	27,228	28,875	29,708	32,323	39,874
Value of production £'000	2,334	12,662	14,992	15,312	16,103	18,792
Total value of output £'000	7,231	40,526	44,527	45,719	49,228	59,623
Value of land and buildings £'000	1,382	6,025	6,137	6,193	8,874	9,790
Value of plant and machinery £'000	721	5,095	5,404	5,496	8,083	8,752
Horse-power of engines ordinarily in use .. h.p.	7,873	30,241	31,721	32,661	38,508	45,820

(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 92.2 million lb. in 1956–57. Preliminary figures for 1957–58 show production as being 108.0 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 1956–57 was 289.5 million lb. and preliminary figures for 1957–58 show production as being 340.3 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 1956–57 amounted to 98.4 million lb. Preliminary figures for 1957–58 show production as being 85.1 million lb.

The following table shows the total quantity and value of jams, pickles, sauces and other items manufactured in each State in 1956–57 :—

JAMS, PRESERVED FRUIT AND VEGETABLES, PICKLES AND SAUCES : 1956-57.

Particulars.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Jams '000 lb.	22,639	40,777	11,610	(a)	(a)	(a)	92,208
Fruit, preserved	38,539	138,236	58,801	42,967	(a)	(a)	289,510
Fruit Pulp(b)	41,089	57,243	6,056	(a)	7,425	(a)	290,975
Fruit Juices, natural cwt.	265	123	2,562	134	(a)	(a)	3,298
Vegetables, preserved '000 lb.	37,082	40,773	197	3,869	2,253	14,244	98,418
Pickled Vegetables	3,001	837	31	1,679	348	..	5,896
Tomato Pulp(b) cwt.	132,194	853,998	(a)	63,477	93,544	(a)	1,167,335
Tomato Paste, Puree, etc., '000 pints	1,400	2,547	..	(a)	(a)	..	4,692
Tomato Juice '000 gals.	189	725	..	(a)	(a)	..	1,508
Pickles '000 pints	3,801	2,531	(a)	(a)	(a)	..	8,119
Chutney " "	573	(a)	(a)	(a)	(a)	..	1,409
Sauces " "	12,052	16,228	1,844	2,308	(a)	(a)	33,494
Soup (canned) " "	5,192	38,604	(a)	(a)	(a)	(a)	44,538
Soup, Dry Mix '000 lb.	(a)	(a)	(a)	(a)	(a)	..	4,525

(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 1956-57 and for Australia for a series of years :—

BACON-CURING.
1956-57.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories ..	29	15	9	14	4	10	81
Number of persons employed ..	657	775	1,243	449	254	94	3,472
Salaries and wages paid .. £'000	598	665	997	409	195	92	2,956
Value of power, fuel, etc., used .. £'000	78	80	97	62	35	10	362
Value of materials used .. £'000	4,981	4,427	7,346	2,456	2,442	721	22,373
Value of production .. £'000	1,174	1,353	1,671	560	338	177	5,273
Total value of output .. £'000	6,233	5,860	9,114	3,078	2,815	908	28,008
Value of land and buildings .. £'000	513	594	728	361	112	144	2,452
Value of plant and machinery .. £'000	279	322	543	270	58	40	1,512
Horse-power of engines ordinarily in use .. h.p.	2,225	3,049	4,688	2,170	841	499	13,472

AUSTRALIA.

Items.	1938-39.	1952-53.	1953-54.	1954-55.	1955-56.	1956-57.
Number of factories ..	76	85	85	84	82	81
Number of persons employed ..	2,047	2,994	2,975	3,201	3,414	3,472
Salaries and wages paid .. £'000	480	2,225	2,270	2,517	2,754	2,956
Value of power, fuel, etc., used .. £'000	77	292	298	322	339	362
Value of materials used .. £'000	3,768	18,836	19,448	18,318	20,814	22,373
Value of production .. £'000	865	4,026	4,410	5,715	4,997	5,273
Total value of output .. £'000	4,710	23,154	24,156	24,355	26,150	28,008
Value of land and buildings .. £'000	750	1,635	1,737	1,956	2,308	2,452
Value of plant and machinery .. £'000	357	917	955	1,100	1,329	1,512
Horse-power of engines ordinarily in use .. h.p.	9,389	11,636	11,685	11,791	13,019	13,472

(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 1956-57 are shown in the following table :—

BACON-CURING FACTORIES : PIGS CURED AND PRODUCTION, 1956-57.

Particulars.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Pigs killed for bacon and ham—							
For curing on own account	178,959	144,262	240,056	69,225	} 94,856	30,310	{ 757,229
For curing on commission	10,255	1,952	1,212	570			
Pork and green bacon used for—							
Curing on own account '000 lb.	3,148	2,260	(a)	966	(a)	..	7,282
Curing on commission '000 lb.	4,484	52	..	(a)	(a)	(a)	4,556
Sugar used .. ton	46	23	154	20	27	14	284
Finished bacon and ham made (b)—							
On own account '000 lb.	15,899	15,040	19,066	7,023	6,825	1,893	65,746
On commission ..	4,996	190	131	56	15	22	5,410
Green bacon and ham ..	376	1,950	409	452	1,081	413	4,681
Lard produced .. cwt.	3,326	6,555	20,695	4,952	6,290	944	42,762

(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 1956-57 and for Australia for a series of years.

BUTTER, CHEESE AND CONDENSED AND DRIED MILK.
1956-57.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	75	131	83	42	18	22	371
Number of persons employed ..	2,396	5,620	1,669	819	312	373	11,189
Salaries and wages paid .. £'000	2,178	5,381	1,288	630	249	342	10,068
Value of power, fuel, etc., used £'000	659	1,598	279	117	70	74	2,797
Value of materials used .. £'000	16,211	51,561	20,668	5,211	3,425	4,441	101,517
Value of production .. £'000	3,746	10,567	2,467	1,118	530	837	19,265
Total value of output .. £'000	20,616	63,726	23,414	6,446	4,025	5,352	123,579
Value of land and buildings £'000	3,175	5,836	1,689	729	225	331	11,985
Value of plant and machinery £'000	3,695	7,031	2,519	721	367	298	14,631
Horse-power of engines ordinarily in use h.p.	29,965	40,031	25,001	8,297	2,393	2,470	108,157

AUSTRALIA.

Items.	1938-39.	1952-53.	1953-54.	1954-55.	1955-56.	1956-57.
Number of factories	523	384	380	379	375	371
Number of persons employed ..	6,851	10,641	10,580	10,567	11,119	11,189
Salaries and wages paid .. £'000	1,570	8,098	8,416	8,680	9,568	10,068
Value of power, fuel, etc., used £'000	390	2,339	2,396	2,423	2,741	2,797
Value of materials used .. £'000	29,162	97,291	94,020	100,706	106,883	101,517
Value of production .. £'000	3,543	14,350	15,914	15,394	18,893	19,265
Total value of output .. £'000	33,095	113,980	112,330	118,523	128,517	123,579
Value of land and buildings £'000	2,880	7,571	9,365	10,337	11,188	11,985
Value of plant and machinery £'000	3,067	10,250	12,083	12,553	13,923	14,631
Horse-power of engines ordinarily in use h.p.	45,059	84,428	94,863	98,442	102,182	108,157

(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 1956-57. These details are restricted to factory production and therefore exclude farm output.

BUTTER, CHEESE AND CONDENSED MILK, ETC., FACTORIES : PRODUCTION, 1956-57.

Particulars.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Total.
MATERIALS USED.							
Whole Milk used in manufacture of							
Butter '000 gal.	166,230	412,709	184,863	36,278	34,592	48,456	883,128
Cheese '000 gal.	8,952	43,865	15,965	25,964	2,531	747	98,024
Condensed, Dried and other Milk Products '000 gal.	15,146	63,857	3,926	(a)	(a)	(a)	88,862
Sugar ton	(a)	16,392	(a)	..	(a)	(a)	19,176

PRODUCTION.

	Ton.	Ton.	Ton.	Ton.	Ton.	Ton.	Ton.
Butter	33,826	88,598	41,089	8,440	7,462	10,426	189,841
Cheese (Green Weight)	4,019	20,541	7,137	11,959	1,182	333	45,171
Condensed Milk (Sweetened and Unsweetened)	(a)	45,589	..	..	(a)	..	49,701
Concentrated—							
Whole Milk	(a)	(a)	(a)	..	(a)	(a)	..
Skim Milk	(a)	(a)	(a)	..	(a)	..	15,145
Powdered Full Cream Milk—							
Spray	(a)	10,551	(a)	(a)	..	(a)	16,508
Roller	(a)	376	(a)	..	..	(a)	1,356
Infants' and Invalids' Foods (including Malted Milk and Milk Sugar (Lactose))	(a)	(a)	..	..	..	(a)	13,567
Powdered Skim Milk—							
Spray	8,454	20,718	(a)	(a)	(a)	..	23,170
Roller .. ..	..	..	..	..	..	..	7,397
Buttermilk and Whey Powder	935	3,489	738	(a)	(a)	..	5,552
Casein	(a)	7,297	(a)	..	..	..	7,730
Ice Cream Mix—							
Powder	(a)	(a)	(a)	(a)	(a)	..	515
Liquid	(a)	(a)	(a)	..	..	..	3,687
Processed Cheese, Cheese Paste and Cheese Spreads(b)	(a)	(a)	(a)	..	..	..	15,312

(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.

1956-57.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	11	15	29	19	35	4	113
Number of persons employed ..	559	653	6,227	(a)	1,101	(a)	8,866
Salaries and wages paid .. £'000	452	614	6,038	(a)	1,033	(a)	8,366
Value of power, fuel, etc., used £'000	84	97	764	(a)	123	(a)	1,099
Value of materials used .. £'000	2,408	3,345	35,278	(a)	3,121	(a)	45,483
Value of production .. £'000	1,050	1,158	10,065	(a)	1,672	(a)	14,385
Total value of output .. £'000	3,452	4,600	46,107	(a)	4,916	(a)	60,967
Value of land and buildings £'000	316	684	3,139	(a)	1,834	(a)	6,241
Value of plant and machinery £'000	303	739	2,133	(a)	797	(a)	4,147
Horse-power of engines ordinarily in use h.p.	1,944	3,219	23,317	(a)	6,781	(a)	36,517

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

AUSTRALIA.

Items.	1938-39.	1952-53.	1953-54.	1954-55.	1955-56.	1956-57.
Number of factories	32	98	106	114	116	113
Number of persons employed ..	4,093	8,771	9,113	9,432	9,550	8,866
Salaries and wages paid .. £'000	1,180	6,820	7,395	8,327	8,704	8,366
Value of power, fuel, etc., used £'000	134	972	1,015	1,110	1,119	1,099
Value of materials used .. £'000	6,351	47,637	46,671	46,642	46,359	45,483
Value of production .. £'000	1,601	12,126	11,374	12,182	14,345	14,385
Total value of output .. £'000	8,086	60,735	59,060	59,934	61,823	60,967
Value of land and buildings £'000	1,966	4,562	4,300	5,403	5,934	6,241
Value of plant and machinery £'000	1,325	2,786	2,826	3,409	4,118	4,147
Horse-power of engines ordinarily in use h.p.	13,385	33,328	31,810	35,600	33,086	36,517

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 1956-57 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.

1956-57.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	7	6	6	3	3	2	27
Number of persons employed ..	1,943	1,993	866	(a)	(a)	(a)	6,107
Salaries and wages paid .. £'000	2,041	2,081	767	(a)	(a)	(a)	6,196
Value of power, fuel, etc., used £'000	601	356	215	(a)	(a)	(a)	1,509
Value of materials used .. £'000	8,273	6,883	2,130	(a)	(a)	(a)	21,238
Value of production .. £'000	5,999	4,079	2,295	(a)	(a)	(a)	16,266
Total value of output (b) .. £'000	14,873	11,318	4,640	(a)	(a)	(a)	39,013
Value of land and buildings £'000	3,317	2,869	2,837	(a)	(a)	(a)	11,069
Value of plant and machinery £'000	5,216	3,952	2,214	(a)	(a)	(a)	14,863
Horse-power of engines ordinarily in use h.p.	16,533	11,721	7,991	(a)	(a)	(a)	45,268

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

(b) Excludes Excise Duty.

BREWERIES—continued.

AUSTRALIA.

Items.	1938-39.	1952-53.	1953-54.	1954-55.	1955-56.	1956-57.
Number of factories	34	32	31	30	28	27
Number of persons employed	3,698	5,904	6,193	6,791	6,835	6,107
Salaries and wages paid £'000	1,215	5,030	5,325	6,272	6,588	6,196
Value of power, fuel, etc., used £'000	251	1,388	1,366	1,369	1,396	1,509
Value of materials used £'000	3,407	16,452	19,975	20,810	22,437	21,238
Value of production £'000	5,372	11,458	13,048	14,855	15,224	16,266
Total value of output(a) £'000	9,030	29,298	34,389	37,034	39,057	39,013
Value of land and buildings £'000	2,801	6,480	7,256	8,307	10,099	11,069
Value of plant and machinery £'000	2,737	5,870	7,681	10,295	12,917	14,863
Horse-power of engines ordinarily in use h.p.	23,231	32,754	38,803	42,359	44,908	45,268

(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 1957-58 amounted to over 233 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 7.3 gallons in 1931-32, increased to 13.8 gallons in 1941-42 and declined again to about 13 gallons during the period of control. The consumption per head had increased to 23.0 gallons by 1957-58.

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 1956-57:—

BREWERIES : MATERIALS USED AND PRODUCTION, 1956-57.

Particulars.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
MATERIALS USED.							
Malt '000 bus.	2,509	2,018	773	(a)	(a)	(a)	6,551
Hops '000 lb.	1,988	1,142	525	(a)	(a)	(a)	4,508
Sugar ton	21,135	14,225	4,654	(a)	(a)	(a)	46,215

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

Quantity .. '000 gals.	91,930	65,172	24,134	(a)	(a)	(a)	220,727
Value (b) .. £'000	14,700	11,177	4,607	(a)	(a)	(a)	38,454

(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 1956-57 and for Australia for a series of years.

WINERIES AND DISTILLERIES.

1956-57.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	29	28	5	73	22	..	157
Number of persons employed	225	373	166	1,191	72	..	2,027
Salaries and wages paid £'000	212	322	152	975	38	..	1,699
Value of power, fuel, etc., used £'000	118	103	70	129	3	..	423
Value of materials used £'000	1,168	916	384	3,833	160	..	6,461
Value of production £'000	612	839	301	1,830	122	..	3,704
Total value of output £'000	1,898	1,858	755	5,792	285	..	10,588
Value of land and buildings £'000	447	349	118	1,378	71	..	2,363
Value of plant and machinery £'000	466	340	391	1,085	66	..	2,348
Horse-power of engines ordinarily in use h.p.	1,372	2,518	590	6,591	341	..	11,412

WINERIES AND DISTILLERIES—*continued.*

AUSTRALIA.

Items.	1938-39.	1952-53.	1953-54.	1954-55.	1955-56.	1956-57.
Number of factories	135	167	164	158	155	157
Number of persons employed	1,133	2,021	1,981	2,022	1,908	2,027
Salaries and wages paid £'000	246	1,431	1,475	1,506	1,532	1,699
Value of power, fuel, etc., used £'000	58	333	365	387	368	423
Value of materials used £'000	1,421	5,464	5,721	4,885	5,074	6,461
Value of production £'000	811	3,198	3,254	2,846	2,890	3,704
Total value of output £'000	2,290	8,995	9,340	8,118	8,332	10,588
Value of land and buildings £'000	1,002	2,104	2,284	2,312	2,254	2,363
Value of plant and machinery £'000	916	1,913	2,108	2,170	2,099	2,348
Horse-power of engines ordinarily in use h.p.	4,396	10,995	11,275	11,054	11,159	11,412

33. **Tobacco, Cigars and Cigarettes.**—Particulars of establishments in which the manufacture of tobacco, cigars or cigarettes was carried on during 1956-57 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.

1956-57.

Items.	N.S.W.	Vic.	Q'land.	W. Aust.	Aust.
Number of factories	12	10	5	2	29
Number of persons employed	2,574	1,962	(a)	(a)	4,630
Salaries and wages paid £'000	2,278	1,706	(a)	(a)	4,038
Value of power, fuel, etc., used £'000	76	47	(a)	(a)	127
Value of materials used £'000	20,411	13,001	(a)	(a)	33,535
Value of production £'000	6,026	4,923	(a)	(a)	10,999
Total value of output(b) £'000	26,513	17,971	(a)	(a)	44,661
Value of land and buildings £'000	641	904	(a)	(a)	1,764
Value of plant and machinery £'000	1,429	1,426	(a)	(a)	3,059
Horse-power of engines ordinarily in use h.p.	7,556	3,003	(a)	(a)	10,990

AUSTRALIA.

Items.	1938-39.	1952-53.	1953-54.	1954-55.	1955-56.	1956-57.
Number of factories	30	37	36	34	33	29
Number of persons employed	5,544	4,704	4,757	4,707	4,622	4,630
Salaries and wages paid £'000	1,096	3,204	3,417	3,516	3,728	4,038
Value of power, fuel, etc., used £'000	34	144	151	158	128	127
Value of materials used £'000	7,081	22,416	26,835	28,825	31,227	33,535
Value of production £'000	2,685	7,078	8,341	9,745	9,244	10,999
Total value of output(b) £'000	9,800	29,638	35,327	38,728	40,599	44,661
Value of land and buildings £'000	1,042	1,741	1,822	1,504	1,867	1,764
Value of plant and machinery £'000	943	1,458	1,917	2,190	2,784	3,059
Horse-power of engines ordinarily in use h.p.	4,610	6,028	6,919	8,466	10,778	10,990
Leaf used—						
Australian (stemmed) '000 lb.	4,489	4,222	4,866	4,482	5,204	5,299
Imported (stemmed) '000 lb.	16,011	28,410	33,076	36,053	37,399	40,860
Tobacco made '000 lb.	16,305	22,334	23,400	21,466	18,836	18,917
Cigars made '000 lb.	238	129	143	151	132	114
Cigarettes made '000 lb.	6,731	13,879	18,303	22,859	27,162	30,513

(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 1956-57 usage was 5.3 million lb. For further information see Chapter XXII.—Agricultural Production.

Imports of tobacco during 1956-57 comprised—manufactured tobacco, 236,314 lb.; cigars, 49,911 lb.; cigarettes, 464,046 lb.; unmanufactured tobacco, 40,765,547 lb. and in 1957-58 were 402,388 lb., 86,165 lb., 370,842 lb. and 43,029,219 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.

1956-57.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	1,094	578	626	95	262	345	3,000
Number of persons employed ..	10,774	7,381	8,590	2,238	4,297	2,555	35,835
Salaries and wages paid .. £'000	8,362	6,117	6,123	1,836	3,167	1,958	27,563
Value of power, fuel, etc., used .. £'000	683	460	367	84	277	185	2,056
Value of materials used £'000	24,031	14,132	12,327	6,584	5,449	4,294	66,817
Value of production £'000	15,118	10,228	10,188	3,342	5,716	3,336	47,928
Total value of output £'000	39,832	24,820	22,882	10,010	11,442	7,815	116,801
Value of land and buildings .. £'000	4,431	2,843	1,744	1,355	970	736	12,079
Value of plant and machinery .. £'000	4,867	3,520	3,276	1,390	2,044	1,989	17,086
Horse-power of engines ordinarily in use h.p.	116,865	83,628	82,828	21,751	40,123	33,707	378,902

AUSTRALIA.

Items.	1938-39.	1952-53.	1953-54.	1954-55.	1955-56.	1956-57.
Number of factories	1,639	3,245	3,117	3,033	3,025	3,000
Number of persons employed ..	19,056	34,541	35,448	36,631	37,102	35,835
Salaries and wages paid .. £'000	3,626	21,367	23,536	25,530	27,086	27,563
Value of power, fuel, etc., used .. £'000	225	1,547	1,639	1,805	1,938	2,056
Value of materials used £'000	8,441	46,585	53,908	61,073	65,618	66,817
Value of production £'000	5,762	35,663	39,799	45,319	47,042	47,928
Total value of output £'000	14,428	83,795	95,346	108,197	114,598	116,801
Value of land and buildings .. £'000	2,029	8,043	8,775	10,321	11,136	12,079
Value of plant and machinery .. £'000	2,777	11,906	12,504	14,896	16,201	17,086
Horse-power of engines ordinarily in use h.p.	89,843	332,736	336,951	359,786	371,003	378,902

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 1957-58 had risen to 1,400 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 1956-57 :—

CABINET AND FURNITURE MAKING AND UPHOLSTERY, 1956-57.

Items	N.S.W.	Vic.	Q'land.	S Aust.	W. Aust.	Tas.	Aust.
Number of factories	539	532	235	118	151	60	1,635
Number of persons employed ..	5,302	4,629	2,269	1,526	1,025	413	15,164
Salaries and wages paid .. £'000	4,347	3,427	1,439	1,091	624	265	11,193
Value of power, fuel, etc., used .. £'000	117	84	35	28	19	6	289
Value of materials used £'000	7,160	5,131	2,469	1,742	1,103	321	17,926
Value of production £'000	7,024	5,713	2,229	1,637	1,010	446	18,059
Total value of output £'000	14,301	10,928	4,733	3,407	2,132	773	36,274
Value of land and buildings .. £'000	2,858	2,558	1,022	571	574	176	7,759
Value of plant and machinery .. £'000	798	790	332	270	180	54	2,424
Horse-power of engines ordinarily in use h.p.	13,997	13,983	7,346	5,092	3,310	1,368	45,096

36. Printing Works.—Printing and bookbinding rank high in importance among the industries of Australia, and in 1956-57 afforded employment for 39,911 employees, and paid £34,766,000 in salaries and wages, while the value of output amounted to £112,629,000. The first table below gives particulars of establishments engaged in general printing in each

State for 1956-57. 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 following:—

GOVERNMENT AND GENERAL PRINTING WORKS, 1956-57.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	564	540	111	85	76	23	1,399
Number of persons employed ..	10,203	9,110	2,323	1,649	1,402	584	25,271
Salaries and wages paid .. £'000	8,762	7,620	1,605	1,233	953	459	20,632
Value of power, fuel, etc., used £'000	286	222	42	31	30	10	621
Value of materials used .. £'000	12,814	9,763	1,705	1,343	1,142	435	27,202
Value of production .. £'000	14,864	13,111	2,697	1,899	1,868	697	35,136
Total value of output .. £'000	27,964	23,096	4,444	3,273	3,040	1,142	62,959
Value of land and buildings £'000	5,425	5,332	905	726	640	282	13,310
Value of plant and machinery £'000	5,733	5,920	951	962	741	279	14,586
Horse-power of engines ordinarily in use h.p.	15,671	13,717	2,429	2,098	2,019	850	36,784

NEWSPAPERS AND PERIODICALS, 1956-57.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	178	111	59	36	23	5	412
Number of persons employed ..	6,777	3,348	2,195	1,195	740	385	14,640
Salaries and wages paid .. £'000	6,700	3,299	1,879	1,117	738	401	13,134
Value of power, fuel, etc., used £'000	280	119	71	35	38	8	551
Value of materials used .. £'000	10,276	7,563	2,726	1,851	1,261	332	24,009
Value of production .. £'000	11,723	5,727	3,470	2,086	1,533	551	25,110
Total value of output .. £'000	22,279	13,409	6,267	3,972	2,852	891	49,670
Value of land and buildings £'000	6,288	1,616	1,298	830	509	222	10,763
Value of plant and machinery £'000	5,612	2,795	1,416	667	706	119	11,315
Horse-power of engines ordinarily in use h.p.	14,252	10,479	5,482	3,539	2,536	692	36,980

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 nearly 195,000 tons in 1956-57.

The number of factories operating in 1956-57 comprised four in New South Wales, seven in Victoria, one each 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.	1952-53.	1953-54.	1954-55.	1955-56. (a)	1956-57. (a)
Number of factories	7	17	18	20	17	17
Number of persons employed ..	1,961	6,441	7,179	7,611	7,480	7,903
Salaries and wages paid .. £'000	467	5,338	6,130	7,095	7,813	8,783
Value of power, fuel, etc., used £'000	201	1,649	2,048	2,560	2,735	2,996
Value of materials used .. £'000	1,096	12,637	15,198	17,474	18,963	22,419
Value of production .. £'000	1,005	11,085	15,451	18,294	17,330	19,383
Total value of output .. £'000	2,302	25,371	32,697	38,328	39,028	44,798
Value of land and buildings £'000	850	7,324	8,106	8,255	9,312	9,527
Value of plant and machinery £'000	1,713	15,263	16,810	18,050	18,640	18,141
Horse-power of engines ordinarily in use h.p.	31,548	127,558	141,373	157,948	164,123	170,382

(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 1956-57 but excludes establishments engaged primarily in the retreading and repairing of tyres.

RUBBER GOODS, 1956-57.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	43	54	12	8	2	1	120
Number of persons employed ..	6,769	6,182	1,152	718	(a)	(a)	14,859
Salaries and wages paid .. £'000	6,695	5,982	909	688	(a)	(a)	14,296
Value of power, fuel, etc., used	£'000 920	901	109	74	(a)	(a)	2,007
Value of materials used .. £'000	16,628	14,088	2,765	859	(a)	(a)	34,378
Value of production .. £'000	8,844	11,327	1,974	1,065	(a)	(a)	23,246
Total value of output .. £'000	26,392	26,316	4,848	1,997	(a)	(a)	59,631
Value of land and buildings .. £'000	2,373	3,211	459	179	(a)	(a)	6,292
Value of plant and machinery	£'000 2,398	3,757	292	182	(a)	(a)	6,645
Horse-power of engines ordinarily in use	h.p. 50,536	53,254	7,608	2,994	(a)	(a)	114,562

(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 VII.—Electric Power Generation and Distribution. Particulars of the industry for each State during the year 1956-57 and for Australia for a series of years are shown below :—

ELECTRIC LIGHT AND POWER WORKS.
1956-57.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	82	53	56	41	87	9	328
Number of persons employed ..	5,490	3,186	1,540	(a)	971	(a)	12,473
Salaries and wages paid .. £'000	6,108	3,534	1,493	(a)	1,052	(a)	13,571
Value of power, fuel, etc., used	£'000 16,208	10,512	5,876	(a)	3,438	(a)	39,830
Value of materials used .. £'000	2,070	605	994	(a)	292	(a)	4,396
Value of production .. £'000	23,570	13,825	4,129	(a)	2,916	(a)	50,722
Total value of output .. £'000	41,848	24,942	10,999	(a)	6,646	(a)	94,948
Value of land and buildings .. £'000	34,903	15,115	8,427	(a)	2,663	(a)	102,318
Value of plant and machinery	£'000 68,397	57,017	25,160	(a)	14,822	(a)	198,269
Generators installed — Kilowatt capacity	'000 kW 1,866	1,163	530	(a)	295	(a)	4,705

AUSTRALIA.

Items.	1938-39.	1952-53.	1953-54.	1954-55.	1955-56.	1956-57.
Number of factories	395	349	351	351	332	328
Number of persons employed ..	6,508	10,891	11,395	11,927	12,111	12,473
Salaries and wages paid .. £'000	1,977	9,675	10,308	11,457	12,497	13,571
Value of power, fuel, etc., used .. £'000	3,239	32,205	35,083	36,548	37,479	39,830
Value of materials used .. £'000	530	3,296	4,800	4,170	4,090	4,396
Value of production .. £'000	8,714	24,582	30,098	37,568	43,219	50,722
Total value of output .. £'000	12,483	60,083	69,981	78,286	84,788	94,948
Value of land and buildings .. £'000	8,388	29,531	47,369	60,120	73,688	102,318
Value of plant and machinery .. £'000	27,751	94,169	122,773	146,273	158,377	198,269

(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 159.

(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
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	4,633	1,786	1,204	753	1,794	16,675
1956-57	7,008	5,037	1,937	1,315	782	2,210	18,289
1957-58(a)	7,565	5,250	2,221	1,593	828	2,336	19,793

(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 1956-57 and for Australia for a series of years :—

GAS-WORKS.

1956-57.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	37	32	16	3	4	2	94
Number of persons employed ..	1,441	1,629	392	(a)	175	(a)	4,138
Salaries and wages paid .. £'000	1,630	1,833	329	(a)	158	(a)	4,448
Value of power, fuel, etc., used .. £'000	2,111	195	39	(a)	175	(a)	2,591
Value of materials used .. £'000	6,453	5,790	1,054	(a)	566	(a)	15,598
Value of production .. £'000	5,250	2,793	857	(a)	274	(a)	9,894
Total value of output .. £'000	13,814	8,778	1,950	(a)	1,015	(a)	28,083
Value of land and buildings .. £'000	1,408	3,009	351	(a)	151	(a)	5,189
Value of plant and machinery .. £'000	6,523	14,142	1,951	(a)	1,634	(a)	27,667
Horse-power of engines ordinarily in use h.p.	19,193	15,816	2,443	(a)	1,185	(a)	44,373

AUSTRALIA.

Items.	1938-39.	1952-53.	1953-54.	1954-55.	1955-56	1956-57.
Number of factories	107	99	98	97	95	94
Number of persons employed ..	2,931	4,199	4,141	4,103	4,087	4,138
Salaries and wages paid .. £'000	785	3,553	3,767	3,882	4,148	4,448
Value of power, fuel, light, etc., used .. £'000	251	2,080	2,244	2,291	2,297	2,591
Value of materials used .. £'000	1,872	15,576	15,249	15,187	15,350	15,598
Value of production .. £'000	2,694	8,473	8,121	9,103	9,272	9,894
Total value of output .. £'000	4,817	26,129	25,614	26,581	26,919	28,083
Value of land and buildings .. £'000	1,463	2,342	2,416	2,488	2,748	5,189
Value of plant and machinery .. £'000	7,498	15,962	17,235	19,134	19,828	27,667
Horse-power of engines ordinarily in use h.p.	17,905	29,514	30,055	33,389	42,082	44,373

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

(ii) *Coal Used and Production.* The following table shows details for 1956-57 :—

GAS-WORKS : COAL USED AND PRODUCTION, 1956-57.

Particulars.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Coal used '000 tons	912	603	203	(a)	42	(a)	1,946
Gas produced million cu. ft.	22,583	15,746	3,115	(a)	1,451	(a)	46,653
Gas sold	19,917	13,495	2,707	(a)	1,246	(a)	40,662
Coke produced (b) '000 tons	456	207	94	(a)	25	(a)	893

(a) Not available for publication ; figures are included in the total for Australia. (b) In addition 2,234,458 tons of metallurgical coke were made in Coke Works in 1956-57.

Since 1938-39, when the output of gas was 21 thousand million cubic feet, production has increased each year and reached nearly 48 thousand million cubic feet in 1957-58.