

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 imports, 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 in the several States from returns supplied to them annually by manufacturers in accordance with the Statistical Acts of the States and the Commonwealth. A return must be supplied in respect

of every factory, which is defined for this purpose as an establishment where four or more persons are employed or where power (other than manual) is used in any manufacturing process. This definition includes factories in educational and charitable institutions, reformatories, and other public institutions (except penitentiaries) but does not cover smallgoods makers, laundries, 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 sawmills 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 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.
Textile Dyeing, Printing and Finishing
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 Corncrushing.
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 XII.—PAPER, STATIONERY, PRINTING,
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.	Fac-tories.	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
1950-51 ..	43,147	969	491,718	1,306,963	2,150,835	843,872	302,785	336,615
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
1957-58 ..	53,988	1,074	929,290	2,545,159	4,273,882	1,728,723	851,686	1,021,351

(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 1953–54 to 1957–58:—

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
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
1957–58	22,270	16,426	5,528	4,168	3,941	1,655	53,988

2. Number of Factories in Industrial Classes.—(i) *Australia*. The next table shows the number of factories in Australia during 1938–39 and 1953–54 to 1957–58 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 186.

FACTORIES: NUMBER IN INDUSTRIAL CLASSES: AUSTRALIA.

Class of Industry.	1938–39.	1953–54.	1954–55.	1955–56.	1956–57.	1957–58.
I. Treatment of Non-metalliferous Mine and Quarry Products	564	1,280	1,303	1,337	1,331	1,328
II. Bricks, Pottery, Glass, etc.	471	639	662	666	672	660
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease	666	1,099	1,124	1,139	1,162	1,184
IV. Industrial Metals, Machines, Conveyances	7,255	16,868	17,842	18,860	19,766	20,518
V. Precious Metals, Jewellery, Plate	290	720	746	782	824	808
VI. Textiles and Textile Goods (not Dress)	611	1,336	1,356	1,362	1,364	1,364
VII. Skins and Leather (not Clothing or Footwear)	533	783	810	789	785	761
VIII. Clothing (except Knitted)	4,314	7,260	7,370	7,390	7,312	7,266
IX. Food, Drink and Tobacco	5,202	7,379	7,433	7,468	7,315	7,455
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving	2,822	5,769	5,845	5,895	5,872	5,764
Furniture of Wood, Bedding, etc.	1,149	2,180	2,200	2,203	2,199	2,200
XII. Paper, Stationery, Printing, Book-binding, etc.	1,816	2,179	2,224	2,303	2,367	2,413
XIII. Rubber	299	465	495	513	536	565
XIV. Musical Instruments	34	75	79	84	88	88
XV. Miscellaneous Products	413	1,095	1,119	1,188	1,185	1,207
<i>Total, Classes I. to XV.</i>	26,439	49,127	50,608	51,979	52,778	53,581
XVI. Heat, Light and Power	502	449	448	427	422	407
Grand Total	26,941	49,576	51,056	52,406	53,200	53,988

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 1957–58. In the latter year, the number of factories in Australia reached the record total of 53,988 or more than twice the number in 1938–39.

(ii) *States, 1957-58.* The following table shows the number of factories in each State classified according to the nature of the industry:—

FACTORIES: NUMBER IN INDUSTRIAL CLASSES, 1957-58.

Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metalliferous Mine and Quarry Products	448	442	101	166	117	54	1,328
II. Bricks, Pottery, Glass, etc.	311	159	57	64	48	21	660
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease	589	350	78	85	60	22	1,184
IV. Industrial Metals, Machines, Conveyances	8,528	5,971	2,060	1,813	1,609	537	20,518
V. Precious Metals, Jewellery, Plate	368	266	40	57	71	6	808
VI. Textiles and Textile Goods (not Dress)	472	748	30	51	44	19	1,364
VII. Skins and Leather (not Clothing or Footwear)	339	289	55	39	31	8	761
VIII. Clothing (except Knitted)	3,363	2,516	521	375	407	84	7,266
IX. Food, Drink and Tobacco	2,798	2,022	1,035	699	609	292	7,455
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving	2,257	1,407	831	353	456	460	5,764
XI. Furniture of Wood, Bedding, etc.	801	704	293	162	169	71	2,200
XII. Paper, Stationery, Printing, Bookbinding, etc.	1,017	884	203	151	123	35	2,413
XIII. Rubber	219	151	81	55	40	19	565
XIV. Musical Instruments	35	28	7	10	8	..	88
XV. Miscellaneous Products	616	411	60	47	59	14	1,207
<i>Total Classes I. to XV.</i>	<i>22,161</i>	<i>16,348</i>	<i>5,452</i>	<i>4,127</i>	<i>3,851</i>	<i>1,642</i>	<i>53,581</i>
XVI. Heat, Light and Power	109	78	76	41	90	13	407
Grand Total	22,270	16,426	5,528	4,168	3,941	1,655	53,988

§ 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, 1957-58.*—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, 1957-58.

Size of Factory (Persons employed).	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
NUMBER OF FACTORIES.							
Under 4	8,987	6,077	1,869	1,460	1,980	739	21,112
4	1,903	1,254	546	383	152	160	4,398
5 to 10	5,331	3,862	1,564	1,077	924	385	13,143
11 to 20	2,759	2,268	693	597	429	170	6,916
21 to 50	1,946	1,721	515	370	291	124	4,967
51 to 100	690	621	159	151	97	45	1,763
101 to 200	353	345	92	71	43	14	918
201 to 300	100	114	55	24	17	4	314
301 to 400	60	43	8	10	..	5	126
401 to 500	36	32	12	6	3	1	90
501 to 750	44	60	9	7	3	3	126
751 to 1,000	24	11	3	..	1	1	40
Over 1,000	37	18	3	12	1	4	75
Total	22,270	16,426	5,528	4,168	3,941	1,655	53,988

The relative importance of large and small factories is illustrated by the following 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, 1957-58.

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	16,897	11,748	3,921	3,072	3,884	1,430	40,952
4	7,612	5,016	2,184	1,532	608	640	17,592
5 to 10	36,932	27,252	10,842	7,456	5,970	2,690	91,142
11 to 20	40,357	33,341	10,102	8,720	6,072	2,470	101,062
21 to 50	61,075	54,254	16,079	11,826	9,093	3,902	156,229
51 to 100	48,216	43,358	11,475	10,425	6,704	3,343	123,521
101 to 200	49,783	47,790	12,692	9,870	5,905	1,982	128,022
201 to 300	24,808	27,515	13,272	5,645	4,091	1,045	76,376
301 to 400	20,222	14,927	2,614	3,391	..	1,663	42,817
401 to 500	16,043	13,958	5,392	2,603	1,334	448	39,778
501 to 750	27,748	35,964	5,658	4,330	1,657	1,886	77,243
751 to 1,000	21,295	9,448	2,864	..	786	775	35,168
Over 1,000	78,221	34,319	5,618	23,974	2,980	6,261	151,373
Total	449,209	358,890	102,713	92,844	49,084	28,535	1,081,275
Average per Factory ..	20.17	21.85	18.58	22.28	12.45	17.24	20.03

3. Australia, 1938-39 and 1953-54 to 1957-58.—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 per establish- ment .. ..	..	5.89	..	42.60	..	287.55	..	21.25
1953-54—								
Number	41,631	236,727	6,403	265,830	1,542	494,564	49,576	997,121
Average per establish- ment .. ..	..	5.69	..	41.52	..	320.73	..	20.11
1954-55—								
Number	42,835	241,233	6,603	273,257	1,618	524,307	51,056	1,038,797
Average per establish- ment .. ..	..	5.63	..	41.38	..	324.00	..	20.35
1955-56—								
Number	44,012	246,087	6,736	279,991	1,658	542,428	52,406	1,068,506
Average per establish- ment .. ..	..	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 per establish- ment .. ..	..	5.56	..	41.60	..	322.54	..	20.13
1957-58—								
Number	45,569	250,748	6,730	279,750	1,689	550,777	53,988	1,081,275
Average per establish- ment .. ..	..	5.50	..	41.57	..	326.10	..	20.03

§ 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 1957-58, 395 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, 24; Galvanized Ironworking, Tinsmithing, 14; Tailoring and Ready-made Clothing, 93; Dressmaking, 10; Millinery, 4; Bakeries, 27; Cabinet and Furniture Making, 11; all other industries, 212.

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 1957-58:—

FACTORIES(a): TOTAL RATED HORSE-POWER OF ENGINES AND ELECTRIC MOTORS, 1957-58.

State.	Factories.(a)	Rated Horse-power of Engines and Motors.	
		Ordinarily In Use.(b)	In Reserve or Idle (omitting obsolete).
New South Wales	22,198	2,024,244	373,706
Victoria	16,375	1,325,387	190,166
Queensland	5,468	514,891	76,026
South Australia	4,130	370,097	47,146
Western Australia	3,854	242,719	34,159
Tasmania	1,644	250,042	36,268
Australia	53,669	4,727,380	757,471

(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, 1957-1958.

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. ..	80,553	122,008	871	41,301	19,405	150	1,759,956	85,553	2,024,244
Victoria ..	21,749	60,317	3,508	30,453	12,721	1,418	1,195,221	67,246	1,325,387
Queensland ..	82,690	63,558	2,644	15,781	13,411	..	336,807	92,862	514,891
S. Australia ..	7,015	9,750	1,161	7,819	8,881	10	335,461	23,338	370,097
W. Australia ..	11,318	11,002	1,302	13,362	9,707	..	196,028	4,931	242,719
Tasmania ..	1,529	24	1	9,390	373	192	238,533	357	250,042
Australia ..	204,854	266,659	9,487	118,106	64,498	1,770	4,062,006	274,287	4,727,380

(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 1953-54 to 1957-58:—

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
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	254,497	8,746	112,944	90,314	1,641	3,674,373	243,800	4,365,662
1956-57 ..	214,875	262,559	7,973	120,533	74,060	1,431	3,860,595	260,708	4,542,026
1957-58 ..	204,854	266,659	9,487	118,106	64,498	1,770	4,062,006	274,287	4,727,380

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

(iii) *In Classes of Industry, 1957-58.* 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), 1957-58.

Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metalliciferous Mine and Quarry Products ..	83,220	44,451	18,820	20,536	16,623	14,941	198,591
II. Bricks, Pottery, Glass, etc. ..	51,585	38,855	8,639	9,584	11,077	2,211	121,951
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease ..	150,105	135,921	10,989	21,577	38,791	11,886	369,269
IV. Industrial Metals, Machines, Conveyances ..	1,056,532	414,656	91,086	170,343	67,817	61,536	1,861,970
V. Precious Metals, Jewellery, Plate ..	5,456	5,046	1,241	1,011	627	64	13,445
VI. Textiles and Textile Goods (not Dress) ..	53,178	102,841	7,256	8,000	2,822	8,281	182,378
VII. Skins and Leather (not Clothing or Footwear) ..	19,193	20,361	5,517	6,141	3,052	516	54,780
VIII. Clothing (except Knitted) ..	23,698	29,265	4,480	3,471	2,500	976	64,390
IX. Food, Drink and Tobacco ..	211,497	215,984	223,164	58,114	38,604	19,619	766,982
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving ..	178,463	118,720	100,908	37,522	48,116	41,109	524,838
XI. Furniture of Wood, Bedding, etc. ..	17,920	16,886	8,744	6,526	4,072	1,469	55,617
XII. Paper, Stationery, Printing, Bookbinding, etc. ..	69,856	81,134	21,453	14,030	5,710	86,472	278,655
XIII. Rubber ..	57,651	58,143	9,401	4,200	876	417	130,688
XIV. Musical Instruments ..	1,660	440	46	14	9	..	2,169
XV. Miscellaneous Products ..	25,837	26,844	665	2,160	819	419	56,744
<i>Total, Classes I. to XV. ..</i>	<i>2,005,851</i>	<i>1,309,547</i>	<i>512,409</i>	<i>363,229</i>	<i>241,515</i>	<i>249,916</i>	<i>4,682,467</i>
XVI. Gas Works ..	18,393	15,840	2,482	6,868	1,204	126	44,913
Grand Total ..	2,024,244	1,325,387	514,891	370,097	242,719	250,042	4,727,380

(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 1957–58 are given in the following table:—

CENTRAL ELECTRIC STATIONS: POWER EQUIPMENT, AUSTRALIA, 1957-58.

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.	6,016	5,057,307	12,348	15,977	331,047	1,304,728	6,727,423
Generators installed—							
Kilowatt capacity—							
Total installed .. kW	4,484	3,700,047	8,064	10,252	225,099	933,045	4,880,991
Effective capacity .. "	4,224	3,419,029	6,602	9,713	208,106	867,942	4,515,616
Horse-power equivalent—							
Total installed .. H.P.	6,011	4,959,839	10,810	13,742	301,741	1,250,728	6,542,871
Effective capacity .. "	5,662	4,583,140	8,850	13,020	278,962	1,163,459	6,053,093

NOTE.—The number of establishments classified as Central Electric Stations in 1957–58 was 319

(ii) *States.* Details of the capacity of engines and generators installed in Central Electric Stations in each State in 1957–58 are given in the next table:—

CENTRAL ELECTRIC STATIONS: NUMBER AND POWER EQUIPMENT, 1957-58.

Particulars.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Central Electric Stations No.	72	51	60	38	87	11	319
Engines installed .. Rated H.P.	2,688,724	1,565,409	814,981	546,613	410,906	700,790	6,727,423
Generators installed—							
Kilowatt capacity—							
Total installed .. kW	1,928,112	1,160,196	596,461	400,098	299,384	496,740	4,880,991
Effective capacity .. "	1,786,252	1,087,053	469,043	394,418	287,290	491,560	4,515,616
Horse-power equivalent—							
Total installed .. H.P.	2,584,596	1,555,220	799,544	536,323	401,318	665,870	6,542,871
Effective capacity .. "	2,394,435	1,457,173	628,742	528,709	385,107	658,927	6,053,093

§ 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) enginedrivers and firemen; (v) workers in factory, skilled and unskilled; (vi) carters and messengers; and (vii) persons working regularly at home for the establishment. This grouping did not record separate details for technical staff (e.g., chemists, draftsmen, etc.) and supervisory staff and in 1945–46 the set-up on the collection form was amended to obtain the following groupings:—(i) Working proprietors; (ii) managerial and clerical staff including salaried managers and working directors; (iii) chemists, draftsmen and other laboratory and research staff; (iv) foremen and overseers; (v) skilled and unskilled workers; (vi) carters (excluding delivery only), messengers and persons working regularly at home.

Prior to the year 1928–29, average employment in factories was computed by dividing the sum of the number employed each week by the number of weeks worked. The figures therefore represented the average number employed over the period worked, which, for many factories, was less than a full year. Commencing with the year 1928–29, the figures represent the equivalent average number employed over a full year of fifty-two weeks. The classification of factories according to the number of persons employed (see § 3, p. 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 1953–54 to 1957–58 in the following table:—

FACTORIES: EMPLOYMENT, AUSTRALIA.

Year.	Males.			Females.			Persons.		
	Number Employed.	Increase on Preceding Year.		Number Employed.	Increase on Preceding Year.		Number Employed.	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
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
1957–58 ..	822,515	8,964	1.10	251,292	1,445	0.58	1,073,807	10,409	0.98

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

FACTORIES: EMPLOYMENT.

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

1938–39 ..	228,781	201,831	54,110	43,371	23,211	13,802	565,106
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
1957–58 ..	445,802	357,143	101,844	92,472	48,462	28,084	1,073,807

PERCENTAGE OF AUSTRALIAN TOTAL.

1938–39 ..	40.48	35.72	9.58	7.67	4.11	2.44	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
1957–58 ..	41.51	33.26	9.48	8.61	4.52	2.62	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
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
1957-58 ..	1,219	1,319	726	1,044	694	841	1,108

2. Rates of Increase, 1938-39 and 1953-54 to 1957-58.—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
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
1957-58 ..	2.18	0.55	-1.53	0.53	-0.59	1.50	0.98

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 1953-54 to 1957-58:—

FACTORIES: PERSONS EMPLOYED IN INDUSTRIAL CLASSES, AUSTRALIA.

Class of Industry.	1938-39.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58.
I. Treatment of Non-metalliferous Mine and Quarry Products	10,343	18,748	20,560	20,893	20,318	20,883
II. Bricks, Pottery, Glass, etc.	15,709	21,708	22,549	22,914	22,162	22,448
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease	19,816	37,988	41,324	44,718	45,753	46,986
IV. Industrial Metals, Machines, Conveyances	177,677	397,713	422,124	444,274	447,405	459,345
V. Precious Metals, Jewellery, Plate	3,726	5,970	6,029	5,894	6,053	5,905
VI. Textiles and Textile Goods (not Dress)	46,082	69,482	69,046	68,356	70,176	68,875
VII. Skins and Leather (not Clothing or Footwear)	10,767	14,676	14,502	13,810	13,454	13,171
VIII. Clothing (except Knitted)	86,092	112,520	112,802	110,820	109,266	106,947
IX. Food, Drink and Tobacco	83,846	123,073	125,934	126,493	124,723	123,471
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving	30,739	58,932	61,153	61,914	60,008	59,238
XI. Furniture of Wood, Bedding, etc.	15,287	20,975	21,342	21,508	21,258	22,099
XII. Paper, Stationery, Printing, Book-binding, etc.	39,913	56,119	59,777	62,713	64,719	66,285
XIII. Rubber	7,502	14,962	16,325	17,287	17,844	18,105
XIV. Musical Instruments	451	1,575	1,623	1,739	1,902	1,101
XV. Miscellaneous Products	7,727	19,565	19,962	20,967	21,746	22,332
<i>Total, Classes I. to XV.</i>	<i>555,677</i>	<i>974,006</i>	<i>1,015,052</i>	<i>1,044,300</i>	<i>1,046,787</i>	<i>1,057,191</i>
XVI. Heat, Light and Power	9,429	15,536	16,030	16,198	16,611	16,616
Grand Total	565,106	989,542	1,031,082	1,060,498	1,063,398	1,073,807

(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, 1957-58.

Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-ferrous Metal and Quarry Products ..	8,294	6,341	1,975	1,974	1,519	780	20,883
II. Bricks, Pottery, Glass, etc. ..	11,623	5,660	1,270	2,086	1,457	352	22,448
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease ..	21,444	16,996	1,780	3,230	2,747	789	46,986
IV. Industrial Metals, Machines, Conveyances ..	209,583	134,221	36,284	50,235	19,549	9,473	459,345
V. Precious Metals, Jewellery, Plate ..	2,452	2,469	309	428	232	15	5,905
VI. Textiles and Textile Goods (not Dress) ..	22,178	38,078	2,159	2,590	949	2,921	68,875
VII. Skins and Leather (not Clothing or Footwear) ..	5,278	4,649	1,259	1,292	626	67	13,171
VIII. Clothing (except Knitted) ..	43,731	45,764	8,091	5,094	3,380	887	106,947
IX. Food, Drink and Tobacco ..	38,741	37,310	25,358	11,050	6,436	4,576	123,471
X. Sawmills, Joinery, Boxes, etc. Wood Turning and Carving ..	19,850	14,815	10,510	4,900	5,755	3,408	59,238
XI. Furniture of Wood, Bedding, etc. ..	8,913	6,550	2,869	2,013	1,301	453	22,099
XII. Paper, Stationery, Printing, Bookbinding, etc. ..	28,158	22,113	5,717	4,015	2,537	3,745	66,285
XIII. Rubber ..	7,956	6,932	1,636	1,146	270	165	18,105
XIV. Musical Instruments ..	688	269	61	45	38	.	1,101
XV. Miscellaneous Products ..	9,962	10,357	602	797	412	202	22,332
<i>Total Classes I. to XV.</i>	<i>438,851</i>	<i>352,524</i>	<i>99,880</i>	<i>90,895</i>	<i>47,208</i>	<i>27,833</i>	<i>1,057,191</i>
XVI. Heat, Light and Power ..	6,951	4,619	1,964	1,577	1,254	251	16,616
Grand Total ..	445,802	357,143	101,844	92,472	48,462	28,084	1,073,807

4. **Persons Employed According to Occupational Grouping.**—(i) *General.* In the following table, the average number of persons employed in each State during 1957-58 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, 1957-58.

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 ..	16,202	53,896	6,955	19,521	347,182	2,046	445,802
Victoria ..	13,934	40,951	5,751	16,262	278,110	2,135	357,143
Queensland ..	4,946	10,169	1,073	4,080	80,831	745	101,844
South Australia ..	2,941	11,028	1,672	4,446	72,037	348	92,472
Western Australia ..	2,714	4,220	473	2,121	38,835	99	48,462
Tasmania ..	1,052	2,895	584	1,334	22,102	117	28,084
<i>Total Males</i> ..	<i>36,373</i>	<i>75,871</i>	<i>15,036</i>	<i>44,252</i>	<i>646,256</i>	<i>4,727</i>	<i>822,515</i>
<i>Total Females</i> ..	<i>5,416</i>	<i>47,288</i>	<i>1,472</i>	<i>3,512</i>	<i>192,841</i>	<i>763</i>	<i>251,292</i>
Total Persons ..	41,789	123,159	16,508	47,764	839,097	5,490	1,073,807

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

(b) Includes persons working regularly

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

5. *Monthly Employment, 1938-39 and 1953-54 to 1957-58.*—(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.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58.
MALES.						
July	387,693	704,109	739,450	768,382	775,580	781,156
August	389,979	707,438	741,435	770,312	774,506	780,630
September	391,576	710,246	743,638	771,715	774,119	782,988
October	393,977	715,338	746,139	774,071	774,455	785,289
November	395,192	719,230	750,285	777,304	777,127	785,825
December	394,438	716,202	747,230	772,509	772,479	781,054
January	385,742	722,277	750,823	774,077	773,419	786,520
February	392,056	727,754	755,456	778,552	779,646	790,835
March	395,146	732,000	757,956	779,527	780,973	793,327
April	391,005	731,923	760,139	780,418	777,262	791,617
May	393,609	734,340	761,555	780,252	779,757	791,403
June	390,963	738,002	763,488	777,968	780,156	791,098
FEMALES.						
July	147,282	212,322	231,222	238,883	240,918	242,399
August	149,294	214,644	232,603	240,857	241,429	243,489
September	151,159	218,078	234,818	243,289	243,199	245,019
October	152,473	222,255	236,930	244,840	245,130	246,360
November	152,806	224,672	238,146	244,582	245,006	247,805
December	151,165	224,100	236,804	242,366	242,175	244,653
January	141,853	228,838	236,664	240,574	243,191	245,340
February	151,883	232,678	242,008	247,841	248,336	250,891
March	154,854	236,354	242,573	247,209	250,728	252,918
April	152,614	234,175	239,460	244,588	245,873	247,439
May	150,693	232,333	238,450	243,989	244,054	245,855
June	148,601	232,009	238,529	242,548	242,966	244,052
PERSONS.						
July	534,975	916,431	970,672	1,007,265	1,016,498	1,023,555
August	539,273	922,082	974,038	1,011,169	1,015,935	1,024,119
September	542,735	928,324	978,456	1,015,004	1,017,318	1,028,007
October	546,450	937,593	983,069	1,018,911	1,019,585	1,031,649
November	547,998	943,902	988,431	1,021,886	1,022,133	1,033,630
December	545,603	940,302	984,034	1,014,875	1,014,654	1,025,707
January	527,595	951,115	987,487	1,014,651	1,016,610	1,031,860
February	543,939	960,432	997,464	1,026,393	1,027,982	1,041,726
March	550,000	968,354	1,000,529	1,026,736	1,031,701	1,046,245
April	543,619	966,098	999,599	1,025,006	1,023,135	1,039,056
May	544,302	966,673	1,000,005	1,024,241	1,023,811	1,037,258
June	539,564	970,011	1,002,017	1,020,516	1,023,122	1,035,150

(ii) *States.* Particulars of the numbers employed in each State on the last pay-day of each month in 1957-58 are shown in the following table:—

FACTORIES: MONTHLY EMPLOYMENT, 1957-58.

(EXCLUDING WORKING PROPRIETORS.)

Month.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
MALES.							
July	318,674	245,685	83,459	72,731	39,156	21,451	781,156
August	318,989	244,951	83,215	72,841	39,160	21,474	780,630
September	320,128	246,093	82,561	73,015	39,602	21,589	782,988
October	321,472	247,017	82,122	73,383	39,702	21,593	785,289
November	323,329	247,928	79,865	73,290	39,730	21,683	785,825
December	322,365	247,903	75,715	73,121	39,550	22,400	781,054
January	323,544	249,998	76,962	73,780	39,506	22,730	786,520
February	325,441	251,277	78,149	73,716	39,792	22,460	790,835
March	326,235	251,815	79,306	73,830	39,924	22,217	793,327
April	326,523	250,065	79,691	73,453	39,642	22,243	791,617
May	326,605	249,153	81,276	72,982	39,280	22,107	791,403
June	326,008	248,065	83,031	73,026	39,054	21,914	791,098
FEMALES.							
July	104,315	94,753	16,470	15,695	6,173	4,993	242,399
August	104,937	95,155	16,680	15,847	6,184	4,686	243,489
September	106,307	95,532	16,476	15,953	6,265	4,486	245,019
October	107,114	95,995	16,549	16,005	6,264	4,433	246,360
November	107,858	96,731	16,418	16,035	6,330	4,433	247,805
December	105,785	95,335	16,076	16,253	6,317	4,887	244,653
January	104,338	96,733	16,013	16,939	6,198	5,119	245,340
February	106,019	99,864	16,889	16,797	6,356	4,966	250,891
March	106,669	100,448	17,208	17,123	6,437	5,033	252,918
April	106,130	97,170	16,129	16,301	6,420	5,289	247,439
May	105,834	96,055	16,290	16,023	6,320	5,333	245,855
June	105,535	94,700	16,343	15,961	6,178	5,335	244,052
PERSONS.							
July	422,989	340,438	99,929	88,426	45,329	26,444	1,023,555
August	423,926	340,106	99,895	88,688	45,344	26,160	1,024,119
September	426,435	341,625	99,037	88,968	45,867	26,075	1,028,007
October	428,586	343,012	98,671	89,388	45,966	26,026	1,031,649
November	431,187	344,659	96,283	89,325	46,060	26,116	1,033,630
December	428,150	343,238	91,791	89,374	45,867	27,287	1,025,707
January	427,882	346,731	92,975	90,719	45,704	27,849	1,031,860
February	431,460	351,141	95,038	90,513	46,148	27,426	1,041,726
March	432,904	352,263	96,514	90,953	46,361	27,250	1,046,245
April	432,653	347,235	95,820	89,754	46,062	27,532	1,039,056
May	432,439	345,208	97,566	89,005	45,600	27,440	1,037,258
June	431,543	342,765	99,374	88,987	45,232	27,249	1,035,150

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, 1957 and 1958, are given below:—

FACTORIES: DISTRIBUTION OF EMPLOYEES ACCORDING TO AGE, JUNE, 1957 AND 1958.

(EXCLUDING WORKING PROPRIETORS.)

Age Group.	June, 1957.			June, 1958.		
	Males.	Females.	Persons.	Males.	Females.	Persons.
Under 16 years ..	9,158	6,828	15,986	8,710	6,924	15,634
16 years ..	13,310	8,292	21,602	13,817	9,180	22,997
17 " ..	15,289	9,276	24,565	16,347	9,790	26,137
18 " ..	16,104	9,715	25,819	16,802	10,025	26,827
19 " ..	15,219	8,986	24,205	16,337	9,421	25,758
20 " ..	14,162	7,959	22,121	15,315	8,737	24,052
21 " and over ..	696,914	191,910	888,824	703,770	189,975	893,745
Total ..	780,156	242,966	1,023,122	791,098	244,052	1,035,150

The following table shows the age distribution in sexes for Australia in June, 1939, and 1954 to 1958:—

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
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
1958 ..	8,710	13,817	16,347	16,802	16,337	15,315	703,770	791,098
FEMALES.								
1939(a) ..	15,497	56,273					76,831	148,601
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
1958 ..	6,924	9,180	9,790	10,025	9,421	8,737	189,975	244,052
PERSONS.								
1939(a) ..	31,606	132,691					375,267	539,564
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	22,121	888,824	1,023,122
1958 ..	15,634	22,997	26,137	26,827	25,758	24,052	893,745	1,035,150

(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 1953-54 to 1957-58:—

FACTORIES: MALES AND FEMALES EMPLOYED.

State.	1938-39.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58.
MALES.						
New South Wales ..	167,172	305,040	316,673	327,106	329,386	337,211
Victoria ..	136,218	240,698	251,675	258,006	258,119	259,404
Queensland ..	43,941	81,425	83,290	85,123	85,899	84,871
South Australia ..	35,406	70,657	73,714	76,144	75,543	75,909
Western Australia ..	18,704	40,439	42,294	43,340	42,122	42,039
Tasmania ..	11,150	20,249	21,045	22,128	22,482	23,081
Australia ..	412,591	758,508	788,691	811,847	813,551	822,515

FEMALES.						
New South Wales ..	61,609	97,555	103,137	105,975	106,983	108,591
Victoria ..	65,613	90,579	94,973	97,179	97,085	97,739
Queensland ..	10,169	16,694	17,003	17,350	17,527	16,973
South Australia ..	7,965	14,846	15,851	16,445	16,438	16,563
Western Australia ..	4,507	7,020	7,020	6,768	6,626	6,423
Tasmania ..	2,652	4,340	4,407	4,934	5,188	5,003
Australia ..	152,515	231,034	242,391	48,651	249,847	251,292

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 1953-54 to 1957-58:—

FACTORIES: ANNUAL PERCENTAGE INCREASES OF MALES AND FEMALES EMPLOYED.

State.	1938-39.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58.
MALES.						
New South Wales ..	1.69	4.57	3.81	3.29	0.70	2.38
Victoria ..	0.04	5.24	4.56	2.52	0.04	0.50
Queensland ..	3.79	4.89	2.29	2.20	0.91	-1.20
South Australia ..	-2.39	5.28	4.33	3.30	-0.79	0.48
Western Australia ..	-0.30	4.73	4.59	2.47	-2.81	-0.20
Tasmania ..	4.40	3.20	3.93	5.15	1.60	2.66
Australia ..	0.98	4.85	3.98	2.94	0.21	1.10

FEMALES.						
New South Wales ..	1.88	10.22	5.72	2.75	0.95	1.50
Victoria ..	-0.03	10.42	4.85	2.32	-0.10	0.88
Queensland ..	3.96	7.73	1.85	2.04	1.02	-3.16
South Australia ..	1.98	11.05	6.77	3.75	-0.04	0.76
Western Australia ..	3.06	6.78	..	-3.59	-2.10	-3.06
Tasmania ..	6.51	12.03	1.54	11.96	5.15	-3.57
Australia ..	1.30	10.09	4.92	2.58	0.50	0.58

NOTE.—Minus sign (—) indicates decrease.

3. **Masculinity of Persons Employed in Factories.**—The extent to which females are employed in the factories of Australia may perhaps be more clearly shown by the proportion of males to females employed in each State. The following table shows particulars for the years 1938–39 and 1953–54 to 1957–58:—

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
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
1957–58	311	265	500	458	655	461	327

(a) Number of males per 100 females.

For a number of years prior to 1926–27, there were on the average 300 males employed in factories for every 100 females, but by 1932–33, as a result of the particularly severe effect of the depression on the heavier industries where males predominate in number, there were only 239 males employed to every 100 females. With the subsequent recovery of employment in the heavier industries, the proportion of males per 100 females increased to 271 in 1937–38 and 1938–39. The enlistment of men in the armed services, 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 1957–58, there were 327 males to every 100 females employed in factories.

4. **Employment of Females in Particular Industries.**—(i) *General.* The majority of females in manufacturing industries are employed in four classes, namely:—IV., Industrial Metals, Machines, etc.; VI., Textiles; VIII., Clothing; and IX., Food, Drink and Tobacco. In 1957–58, these industries accounted for 78.38 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 131 females to every 100 males and in Class VIII., Clothing, with 236 females to every 100 males. The following table shows the average number of males and females employed in each of the four classes in 1957–58:—

MALES AND FEMALES EMPLOYED IN PARTICULAR INDUSTRIES, 1957-58.

Class.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
MALES.							
IV. Industrial Metals, etc. ..	183,165	118,775	34,036	44,613	18,682	8,917	408,188
VI. Textiles and Textile Goods (not Dress)	9,082	16,789	780	1,320	531	1,288	29,790
VIII. Clothing (except Knitted) ..	12,310	13,984	2,345	1,706	1,143	384	31,872
IX. Food, Drink and Tobacco ..	27,061	26,981	21,601	8,012	5,044	3,130	91,829
All Other Classes	105,593	82,875	26,109	20,258	16,639	9,362	260,836
Total	337,211	259,404	84,871	75,909	42,039	23,081	822,515
FEMALES.							
IV. Industrial Metals, etc. ..	26,418	15,446	2,248	5,622	867	556	51,157
VI. Textiles and Textile Goods (not Dress)	13,096	21,289	1,379	1,270	418	1,633	39,085
VIII. Clothing (except Knitted) ..	31,421	31,780	5,746	3,388	2,237	503	75,075
IX. Food, Drink and Tobacco ..	11,680	10,329	3,757	3,038	1,392	1,446	31,642
All Other Classes	25,976	18,895	3,843	3,245	1,509	865	54,333
Total	108,591	97,739	16,973	16,563	6,423	5,003	251,292

(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), 1957-58.

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 ..	2,986	14,403	482	2,865	6,914	241	1,074	3,215	299
Waterproof and Oilskin Clothing ..	114	535	469	116	334	288	10	52	520
Dressmaking, Hemstitching ..	133	1,358	1,021	1,211	7,528	622	150	2,537	1,691
Millinery ..	240	1,258	524	180	636	353	38	399	1,050
Shirts, Collars, Underclothing ..	465	4,174	898	723	5,626	778	164	1,886	1,150
Foundation Garments ..	116	1,412	1,217	234	1,504	643	23	153	665
Handkerchiefs, Ties and Scarves ..	163	1,028	631	76	373	491	33	121	367
Hats and Caps ..	479	476	99	202	171	85	26	109	429
Gloves ..	103	348	338	35	218	623	41	141	344
Boots and Shoes (not Rubber) ..	3,367	3,410	101	5,371	5,721	107	1,689	1,281	76
Boot and Shoe Repairing ..	1,505	112	7	712	54	7	668	66	10
Boot and Shoe Accessories ..	197	103	52	375	211	56	39	7	18
Umbrellas and Walking Sticks ..	55	95	173	21	66	314	17	40	235
Dyeworks and Cleaning (including Renovating and Repairing) ..	2,342	2,333	100	1,756	2,054	117	1,606	1,867	116
Other ..	45	376	836	107	370	346	..	..	..
Total ..	12,310	31,421	255	13,984	31,780	227	5,578	11,874	213

(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, 1957 and 1958.**—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 15,634 in June, 1958, 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.			1957.			1958.		
	Males.	Females.	Persons.	Males.	Females.	Persons.	Males.	Females.	Persons.
New South Wales ..	5,759	7,084	12,843	2,584	1,981	4,565	2,575	1,929	4,504
Victoria ..	6,167	5,005	11,172	2,966	2,480	5,446	2,805	2,608	5,413
Queensland ..	1,790	1,334	3,124	1,711	1,205	2,916	1,588	1,151	2,739
South Australia ..	1,296	1,053	2,349	878	724	1,602	873	796	1,669
Western Australia ..	705	521	1,226	898	327	1,225	769	327	1,096
Tasmania ..	392	500	892	121	111	232	100	113	213
Australia ..	16,109	15,497	31,606	9,158	6,828	15,986	8,710	6,924	15,634

(a) Under sixteen years of age.

3. **Industries Employing Child Labour.**—The distribution of children employed in factories in June, 1958, 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, 1958.

Class of Industry.	Children Employed.		Total Employees. (<i>b</i>)		Proportion (per cent.) of Children Employed to Total Employees. (<i>b</i>)	
	Males.	Females.	Males.	Females.	Males.	Females.
Industrial Metals, Machines, Conveyances	3,872	701	396,137	52,249	0.98	1.34
Textiles and Textile Goods (not Dress)	465	1,347	28,471	37,494	1.63	3.59
Clothing (except Knitted)	551	2,772	26,483	72,072	2.08	3.85
Food, Drink and Tobacco	1,008	735	87,648	29,054	1.15	2.53
Sawmills, Joinery, Boxes, etc.	706	104	51,988	3,050	1.36	3.41
Furniture of Wood, Bedding, etc.	459	91	16,667	3,794	2.75	2.40
Paper, Stationery, Printing, Bookbinding	698	608	48,222	17,210	1.48	3.53
All other Industries	951	566	135,482	29,129	0.70	1.94
Total	8,710	6,924	791,098	244,052	1.10	2.84

(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. Value of Production, Materials Used, Salaries and Wages.

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

1. **General.**—The gross value of factory output for 1957–58 was £4,273,882,000, of which £2,386,361,000 was the value of the materials used, including containers, etc., tools replaced and repairs to plant and buildings, and £158,798,000 the value of the power, fuel and light used. The difference between the sum of the last two amounts and the gross value of output, namely, £1,728,723,000, represents the net value of factory production defined as “the value of consumable commodities produced during the year, deducting, so far as possible, the value of goods consumed in process of production other than depreciation (*see* para. 6 of this section, p. 175). The gross value of factory output and the value of materials used each contain inherent elements of duplication, as the output of some factories becomes the materials used in other factories. They therefore have little statistical significance. The net value of factory production indicates the relative importance of manufacturing in the Australian economy in constant money terms. The total amount of salaries and wages paid in factories in 1957–58 was £929,290,000. This figure, which excludes amounts drawn by working proprietors, was the highest ever recorded and shows an increase of £38,200,000 or 4.29 per cent. on that for the previous year.

2. Salaries and Wages Paid.—(i) *In Classes of Industry, 1957–58.* 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, 1957–58.

(£'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	8,406	6,118	1,742	1,834	1,248	743	20,091
II. Bricks, Pottery, Glass, etc.	11,122	5,262	1,061	1,978	1,283	327	21,033
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease	21,590	17,235	1,537	3,038	2,771	900	47,071
IV. Industrial Metals, Machines, Conveyances	199,129	124,314	28,633	45,217	15,450	9,033	421,776
V. Precious Metals, Jewellery, Plate	1,906	2,066	203	315	153	11	4,654
VI. Textiles and Textile Goods (not Dress)	16,705	29,353	1,268	2,046	700	2,144	52,216
VII. Skins and Leather (not Clothing or Footwear)	4,402	3,841	979	1,145	513	51	10,931
VIII. Clothing (except Knitted)	27,346	30,127	4,234	3,061	1,719	528	67,015
IX. Food, Drink and Tobacco	32,139	32,560	21,848	8,873	5,009	3,717	104,146
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving	16,408	12,470	7,568	4,070	4,345	2,666	47,527
XI. Furniture of Wood, Bedding, etc.	7,231	5,143	1,862	1,489	862	298	16,885
XII. Paper, Stationery, Printing, Bookbinding, etc.	26,011	21,031	4,471	3,384	2,105	4,286	61,288
XIII. Rubber	7,822	6,884	1,280	1,131	208	147	17,472
XIV. Musical Instruments	650	218	39	28	25		960
XV. Miscellaneous Products	8,466	8,582	393	599	256	153	18,449
<i>Total, Classes I. to XV.</i>	<i>389,333</i>	<i>305,204</i>	<i>77,118</i>	<i>78,208</i>	<i>36,647</i>	<i>25,004</i>	<i>911,514</i>
XVI. Heat, Light and Power	7,359	5,336	1,840	1,636	1,288	317	17,776
Grand Total	396,692	310,540	78,958	79,844	37,935	25,321	929,290

(ii) *Totals and Averages, 1938–39 and 1953–54 to 1957–58.* 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
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
1957–58	396,692	310,540	78,958	79,844	37,935	25,321	929,290
AVERAGE PER EMPLOYEE (£.)							
1938–39	201.77	185.64	210.78	195.57	207.90	188.31	196.31
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
1957–58	923.40	904.81	814.86	891.80	829.22	936.70	900.46

VALUE OF PRODUCTION, MATERIALS USED, SALARIES AND WAGES. 171

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 are employed in Class VIII., Clothing, comprising a relatively high percentage of women and children. The highest average wages per employee in 1957-58 were paid in Tasmania, New South Wales and Victoria, in that order.

The average earnings per employee rose annually from 1938-39 to 1943-44 when a level of £291 was attained as a result of war-time conditions. In 1944-45, the average dropped to £285 and remained at this level in 1945-46. From 1945-46, average earnings rose each year and in 1957-58 reached a record level of slightly over £900.

(iii) *Total and Average Earnings of Males and Females, 1938-39 and 1953-54 to 1957-58.* Particulars for these years are given in the following table:—

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

Year.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
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MALES.

TOTAL AMOUNT PAID (£'000).

1938-39	38,272	29,006	9,920	7,488	4,129	2,234	91,049
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
1957-58	334,245	253,342	70,934	71,153	34,938	22,516	787,148

AVERAGE PER MALE EMPLOYEE (£).

1938-39	239.24	224.47	238.59	220.95	235.49	212.09	231.84
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
1957-58	1,034.19	1,023.48	881.32	970.33	884.66	1,018.45	1,001.28

FEMALES.

TOTAL AMOUNT PAID (£'000).

1938-39	6,334	7,021	967	681	445	246	15,694
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
1957-58	62,447	57,198	8,004	8,691	2,997	2,805	142,142

AVERAGE PER FEMALE EMPLOYEE (£).

1938-39	103.66	108.25	96.00	86.44	99.58	93.19	103.92
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
1957-58	586.89	597.81	487.69	536.42	479.14	569.66	578.10

(iv) *Managers, Clerical Staff and Other Employees.* A further analysis of salaries and wages paid is given in the following table for 1957-58 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, 1957-58.

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	2,557	434	16,971	129
II. Bricks, Pottery, Glass, etc.	1,901	440	17,974	718
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease	10,736	2,237	30,026	4,072
IV. Industrial Metals, Machines, Conveyances	61,015	12,761	330,773	17,226
V. Precious Metals, Jewellery, Plate	556	204	3,443	451
VI. Textiles and Textile Goods (not Dress)	4,880	1,981	24,855	20,499
VII. Skins and Leather (not Clothing or Footwear)	1,275	259	7,892	1,505
VIII. Clothing (except Knitted)	4,789	2,503	20,910	38,813
IX. Food, Drink and Tobacco	13,950	3,870	72,663	13,663
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving	4,931	1,068	40,948	580
XI. Furniture of Wood, Bedding, etc.	1,692	527	13,109	1,557
XII. Paper, Stationery, Printing, Bookbinding, etc.	7,987	2,610	43,482	7,210
XIII. Rubber	2,585	560	12,708	1,618
XIV. Musical Instruments	104	23	762	71
XV. Miscellaneous Products	2,660	808	11,333	3,649
<i>Total, Classes I. to XV.</i>	<i>121,618</i>	<i>30,285</i>	<i>647,849</i>	<i>111,761</i>
XVI. Heat, Light and Power	1,726	71	15,954	25
Grand Total	123,344	30,356	663,803	111,786
Average paid per employee	£ 1,356.81	£ 622.56	£ 954.79	£ 567.11

3. Power, Fuel and Light Used.—(i) *In Classes of Industry, 1957-58.* The expenditure by factories on power, fuel and light, including the value of lubricants and water, is of considerable importance; in 1957-58 it amounted to a new high level of £158,798,000, an increase of £5,688,000 as compared with the previous year and more than 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), 1957-58.
(£'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	2,881	2,028	773	902	545	335	7,464
II. Bricks, Pottery, Glass, etc.	3,608	1,974	404	587	542	142	7,257
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease	5,901	6,355	322	820	2,055	338	15,791
IV. Industrial Metals, Machines, Conveyances	29,632	6,963	1,744	5,801	1,046	1,912	47,098
V. Precious Metals, Jewellery, Plate	138	142	12	36	11	1	340
VI. Textiles and Textile Goods (not Dress)	1,482	2,367	65	215	55	222	4,406
VII. Skins and Leather (not Clothing or Footwear)	412	469	77	146	70	7	1,181
VIII. Clothing (except Knitted)	894	905	177	128	84	41	2,229
IX. Food, Drink and Tobacco	6,023	5,747	2,794	1,350	1,000	499	17,413
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving	1,498	663	467	207	326	311	3,472
XI. Furniture of Wood, Bedding, etc.	182	121	47	40	23	7	420
XII. Paper, Stationery, Printing, Bookbinding, etc.	1,378	1,792	228	294	93	1,219	5,004
XIII. Rubber	1,046	1,088	169	135	26	21	2,485
XIV. Musical Instruments	42	11	1	1	(b)	..	55
XV. Miscellaneous Products	555	568	11	50	13	5	1,202
<i>Total, Classes I. to XV.</i>	<i>55,672</i>	<i>31,193</i>	<i>7,291</i>	<i>10,712</i>	<i>5,889</i>	<i>5,060</i>	<i>115,817</i>
XVI. Heat, Light and Power	17,780	11,569	5,861	4,221	3,536	14	42,981
Grand Total	73,452	42,762	13,152	14,933	9,425	5,074	158,798

(a) Includes value of lubricants and water.

(b) Less than £500.

(ii) *Values of Items, 1957-58.* 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), 1957-58.

(£'000.)

Particulars.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Coal, Black	20,880	2,834	7,130	(b) 4,436	2,535	1,177	38,992
" Brown .. ..	..	7,882	..	..	..	..	7,882
Brown Coal Briquettes .. ..	..	1,737	..	..	..	..	1,737
Coke	12,383	1,012	385	3,261	196	328	17,565
Wood	434	563	407	410	416	219	2,449
Fuel Oil	8,684	12,215	1,169	2,237	3,497	668	28,470
Tar (Fuel)	995	241	10	107	28	24	1,405
Electricity	20,747	11,970	3,041	3,345	1,991	2,317	43,411
Gas	3,516	1,082	166	221	82	35	5,102
Other (Charcoal, etc.)	2,048	878	128	302	229	120	3,705
Water	2,534	1,486	362	374	240	94	5,090
Lubricating Oils	1,231	862	354	240	211	92	2,990
Total	73,452	42,762	13,152	14,933	9,425	5,074	158,798

(a) Includes value of lubricants and water. (b) Includes £1,444,000 the value of 672,000 tons of Leigh Creek coal.

(iii) *Quantities of Fuel Used, 1957-58.* The following table shows the quantities of fuel used in factories in each State during the year:—

FACTORIES: QUANTITIES OF FUEL USED, 1957-58.

Particulars.	Unit.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Coal, Black	'000 tons	5,844	453	1,640	(a)1,189	562	245	9,933
" Brown	"	..	9,127	..	..	..	..	9,127
Brown Coal Briquettes	"	..	357	..	..	..	..	357
Coke	"	2,117	111	35	346	20	19	2,648
Wood	"	199	266	218	199	313	98	1,293
Fuel Oil	'000 gals.	137,188	223,063	11,638	35,102	53,579	8,181	468,751
Tar (Fuel)	"	32,618	4,170	251	2,540	754	469	40,802

(a) Includes 672,000 tons of Leigh Creek coal.

(iv) *Total Value, 1938-39 and 1953-54 to 1957-58.* 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
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
1957-58	73,452	42,762	13,152	14,933	9,425	5,074	158,798

(a) Includes value of lubricants and water.

4. *Value of Materials Used.*—(i) *In Classes of Industry, 1957-58.* 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 1957-58 reached £2,386,361,000, representing

55.8 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, 1957-58.(a)

(£'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	29,922	12,370	3,959	4,209	2,391	1,243	54,094
II. Bricks, Pottery, Glass, etc.	9,504	5,102	901	2,354	762	223	18,846
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease	118,164	98,261	8,590	13,616	37,838	2,338	278,807
IV. Industrial Metals, Machines, Conveyances	448,503	202,772	48,516	88,234	22,430	16,346	826,801
V. Precious Metals, Jewellery, Plate	1,891	2,871	95	211	74	8	5,150
VI. Textiles and Textile Goods (not Dress)	39,463	77,985	4,440	4,103	4,363	6,097	136,451
VII. Skins and Leather (not Clothing or Footwear)	12,668	11,129	2,828	5,974	1,061	326	33,986
VIII. Clothing (except Knitted)	46,206	48,160	5,750	3,420	2,085	320	105,941
IX. Food, Drink and Tobacco	166,325	183,714	140,028	38,192	26,464	16,190	570,913
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving	39,132	26,946	15,789	10,409	7,504	5,781	105,561
XI. Furniture of Wood, Bedding, etc.	14,503	10,123	3,984	2,711	1,813	486	33,620
XII. Paper, Stationery, Printing, Bookbinding, etc.	49,467	46,425	7,602	5,789	3,152	6,928	119,363
XIII. Rubber	17,867	17,415	3,570	1,863	372	198	41,285
XIV. Musical Instruments	1,036	251	29	8	15	..	1,339
XV. Miscellaneous Products	14,041	18,556	509	941	296	91	34,434
<i>Total, Classes I. to XV.</i>	<i>1,008,692</i>	<i>762,080</i>	<i>246,590</i>	<i>182,034</i>	<i>110,620</i>	<i>56,575</i>	<i>2,366,591</i>
XVI. Heat, Light and Power	8,236	6,379	2,057	1,846	905	347	19,770
Grand Total	1,016,928	768,459	248,647	183,880	111,525	56,922	2,386,361

(a) *See* para. 1 of this section, p. 169.

(ii) *Total Amount, 1938-39 and 1953-54 to 1957-58.* The following table shows the value of materials used in factories for these years:—

FACTORIES: VALUE OF MATERIALS USED.(a)

(£'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
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	884,582	674,846	231,584	183,196	96,360	53,751	2,124,319
1956-57	948,393	707,729	244,974	184,209	104,969	56,909	2,247,183
1957-58	1,016,928	768,459	248,647	183,880	111,525	56,922	2,386,361

(a) *See* para. 1 of this section, p. 169.

5. Value of Output.—(i) *In Classes of Industry, 1957-58.* The value of the output of factories in the various classes in each State in 1957-58 is shown in the following table. It represents the selling value at the factory (excluding delivery costs and charges) of goods made or processed during the year, including by-products. In addition, it includes the amount received for other work done such as repair work, assembling and making up for customers. The difference between the sum of the values of the materials and of the power, fuel and light used, and the value of output is the net value of factory production (*see* paras. 1 and 6 of this section).

FACTORIES: VALUE OF OUTPUT, 1957-58.(a)

(£'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	49,629	26,220	8,274	9,188	5,892	2,897	102,100
II. Bricks, Pottery, Glass, etc.	30,813	15,844	3,152	6,256	3,508	849	60,422
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease	192,241	153,180	14,063	23,086	52,282	5,405	440,257
IV. Industrial Metals, Machines, Conveyances	819,158	408,199	96,134	162,639	47,851	34,414	1,568,395
V. Precious Metals, Jewellery, Plate	5,404	6,436	423	755	370	31	13,419
VI. Textiles and Textile Goods (not Dress)	71,293	130,872	6,612	7,935	5,864	9,779	232,355
VII. Skins and Leather (not Clothing or Footwear)	19,676	17,607	4,433	7,555	1,884	402	51,557
VIII. Clothing (except Knitted)	91,604	97,412	12,898	8,132	5,023	1,171	216,240
IX. Food, Drink and Tobacco	249,608	260,893	185,709	55,131	38,001	23,920	813,262
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving	70,390	49,640	28,850	17,145	15,213	10,848	192,086
XI. Furniture of Wood, Bedding, etc.	26,803	19,307	7,093	5,227	3,298	1,013	62,741
XII. Paper, Stationery, Printing, Bookbinding, etc.	100,290	90,058	16,289	12,707	7,348	18,381	245,073
XIII. Rubber	30,247	31,959	6,494	3,995	833	451	73,979
XIV. Musical Instruments	2,614	699	86	48	52	..	3,499
XV. Miscellaneous Products	30,216	35,107	1,153	2,150	744	285	69,655
<i>Total, Classes I. to XV.</i>	<i>1,789,986</i>	<i>1,343,433</i>	<i>391,663</i>	<i>321,949</i>	<i>188,163</i>	<i>109,846</i>	<i>4,145,040</i>
XVI. Heat, Light and Power	58,256	34,264	14,094	10,149	8,099	3,980	128,842
Grand Total	1,848,242	1,377,697	405,757	332,098	196,262	113,826	4,273,882

(a) See para. 1 of this section, p. 169

(ii) *Total, 1938-39 and 1953-54 to 1957-58.* The following table shows the value of output in each State during these years:—

FACTORIES: VALUE OF OUTPUT.(a)

(£'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
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	1,595,137	1,201,392	371,644	316,962	175,146	103,779	3,764,060
1956-57	1,726,637	1,276,141	396,504	325,105	187,636	110,390	4,022,413
1957-58	1,848,242	1,377,697	405,757	332,098	196,262	113,826	4,273,882

(a) See para. 1 of this section p. 169.

6. Value of Production.—(i) *In Classes of Industry, 1957-58.* 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 net value of production as given in the following tables is obtained therefore, by deducting only "value of materials used" and "value of fuel used" from the "value of output".

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

The value of factory production, therefore, approximates "net value added" in the manufacturing process. It amounted in 1957-58 to £1,729 million to which Class IV., Industrial Metals, etc., with £694 million made the greatest contribution. The net value of production in 1957-58 showed an increase of £107 million (6.57 per cent.) over the figure for 1956-57 and £1,525 million over the value of production recorded in 1938-39.

The following table shows the value of production in 1957-58 in each State for the various classes of industry:—

FACTORIES: VALUE OF PRODUCTION, 1957-58.(a)

(£'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 ..	16,826	11,822	3,543	4,076	2,956	1,319	40,542
II. Bricks, Pottery, Glass, etc. ..	17,701	8,768	1,846	3,316	2,204	484	34,319
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease ..	68,176	48,563	5,151	8,650	12,389	2,730	145,659
IV. Industrial Metals, Machines, Conveyances ..	341,024	198,464	45,873	68,605	24,374	16,156	694,496
V. Precious Metals, Jewellery, Plate ..	3,375	3,424	315	508	285	22	7,929
VI. Textiles and Textile Goods (not Dress) ..	30,348	50,520	2,107	3,618	1,445	3,460	91,498
VII. Skins and Leather (not Clothing or Footwear) ..	6,595	6,009	1,529	1,435	753	69	16,390
VIII. Clothing (except Knitted) ..	44,504	48,347	6,972	4,584	2,853	810	108,070
IX. Food, Drink and Tobacco ..	77,260	71,433	42,887	15,588	10,537	7,231	224,936
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving ..	29,760	22,030	12,594	6,529	7,384	4,756	83,053
XI. Furniture of Wood, Bedding, etc. ..	12,118	9,063	3,062	2,475	1,463	520	28,701
XII. Paper, Stationery, Printing, Bookbinding, etc. ..	49,444	41,841	8,459	6,624	4,103	10,235	120,706
XIII. Rubber ..	11,334	13,457	2,755	1,997	435	231	30,209
XIV. Musical Instruments ..	1,536	437	56	40	36	..	2,105
XV. Miscellaneous Products ..	15,620	15,983	633	1,159	436	188	34,019
<i>Total, Classes I. to XV.</i> ..	<i>725,621</i>	<i>550,161</i>	<i>137,782</i>	<i>129,204</i>	<i>71,653</i>	<i>48,211</i>	<i>1,662,632</i>
XVI. Heat, Light and Power ..	32,241	16,315	6,176	4,081	3,659	3,619	66,091
Grand Total ..	757,862	566,476	143,958	133,285	75,312	51,830	1,728,723

(a) See para. 1 of this section, p. 169.

(ii) *Total and Averages, 1938-39 and 1953-54 to 1957-58.* 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 £178.45 in 1957-58. For value per person employed, the increase was not quite so pronounced (from £360 per head in 1938-39 to £1,610 in 1957-58).

FACTORIES: VALUE OF PRODUCTION.(a)

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
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	644,086	491,948	128,080	120,936	69,733	45,931	1,500,714
1956-57	706,799	528,031	138,400	126,766	73,442	48,682	1,622,120
1957-58	757,862	566,476	143,958	133,285	75,312	51,830	1,728,723

PER PERSON EMPLOYED. (£.)

1938-39	395	327	357	315	378	391	360
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
1957-58	1,700	1,586	1,414	1,441	1,534	1,846	1,610

PER HEAD OF POPULATION. (£.)

1938-39	33.00	35.25	19.14	22.98	18.80	22.72	29.34
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
1957-58	207.16	209.25	102.59	150.44	107.81	155.13	178.45

(a) See para. 1 of this section, p. 169.

§ 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 1957-58:—

FACTORIES: VALUE OF LAND, BUILDINGS, PLANT AND MACHINERY(a), 1957-58.

(£'000.)

Value of—	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Land and buildings	350,169	280,207	63,927	61,084	36,846	59,453	851,686
Plant and machinery	415,838	310,879	104,598	79,336	63,840	46,860	1,021,351
Total ..	766,007	591,086	168,525	140,420	100,686	106,313	1,873,037

(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 1953-54 to 1957-58:—

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

Class of Industry.	1938-39.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58.
I. Treatment of Non-metalliferous Mine and Quarry Products ..	2,779	8,091	9,103	11,228	12,686	13,714
II. Bricks, Pottery, Glass, etc. ..	2,954	8,535	9,849	11,301	14,498	14,986
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease ..	7,377	36,931	44,658	61,863	67,719	70,090
IV. Industrial Metals, Machines, Conveyances ..	34,841	159,325	184,934	218,667	252,837	300,343
V. Precious Metals, Jewellery, Plate	633	2,523	2,888	3,233	3,525	3,777
VI. Textiles and Textile Goods (not Dress) ..	6,000	25,443	29,651	31,931	37,010	40,199
VII. Skins and Leather (not Clothing or Footwear) ..	2,096	6,072	6,452	6,288	7,074	7,221
VIII. Clothing (except Knitted) ..	10,624	28,584	31,163	33,920	37,203	39,855
IX. Food, Drink and Tobacco ..	33,273	86,625	94,070	108,335	118,413	129,073
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving ..	4,107	18,297	21,225	23,141	25,347	28,464
XI. Furniture of Wood, Bedding, etc.	2,533	8,069	8,981	9,915	11,223	12,992
XII. Paper, Stationery, Printing, Book-binding, etc. ..	10,639	30,444	34,156	40,256	44,912	52,854
XIII. Rubber ..	1,676	6,668	7,430	8,581	9,563	11,688
XIV. Musical Instruments ..	105	468	528	621	987	636
XV. Miscellaneous Products ..	1,433	7,570	8,299	9,946	11,491	12,922
<i>Total, Classes I. to XV. ..</i>	<i>121,070</i>	<i>433,645</i>	<i>493,387</i>	<i>579,226</i>	<i>654,488</i>	<i>738,814</i>
XVI. Heat, Light and Power ..	9,850	49,786	62,609	76,356	107,507	112,872
Grand Total ..	130,920	483,431	555,996	655,582	761,995	851,686

(a) Includes estimated value of rented premises.

(ii) *In Classes of Industry in States, 1957-58.* The following table gives particulars of the various classes of industry in each State:—

FACTORIES: VALUE OF LAND AND BUILDINGS(a), 1957-58.
(£'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 ..	5,012	4,365	861	1,337	1,459	680	13,714
II. Bricks, Pottery, Glass, etc. ..	8,023	3,603	747	1,074	1,255	284	14,986
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease ..	31,178	28,851	1,481	2,896	4,658	1,026	70,090
IV. Industrial Metals, Machines, Conveyances ..	143,099	95,603	16,462	24,870	11,406	8,903	300,343
V. Precious Metals, Jewellery, Plate ..	1,437	1,721	129	290	176	24	3,777
VI. Textiles and Textile Goods (not Dress) ..	12,977	22,475	763	1,769	703	1,512	40,199
VII. Skins and Leather (not Clothing or Footwear) ..	2,977	2,806	356	679	286	117	7,221
VIII. Clothing (except Knitted) ..	16,661	16,516	2,517	1,975	1,612	574	39,855
IX. Food, Drink and Tobacco ..	42,173	43,318	21,073	10,126	7,619	4,764	129,073
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving ..	11,187	7,590	2,844	3,753	1,674	1,416	28,464
XI. Furniture of Wood, Bedding, etc. ..	4,960	4,490	1,563	912	786	281	12,992
XII. Paper, Stationery, Printing, Bookbinding, etc. ..	21,875	17,362	4,280	2,409	1,505	5,423	52,854
XIII. Rubber ..	4,437	4,680	1,132	848	389	202	11,688
XIV. Musical Instruments ..	379	183	16	27	31	103	636
XV. Miscellaneous Products ..	5,960	5,851	275	438	295	103	12,922
<i>Total, Classes I. to XV. ..</i>	<i>312,335</i>	<i>259,414</i>	<i>54,499</i>	<i>53,403</i>	<i>33,854</i>	<i>25,309</i>	<i>738,814</i>
XVI. Heat, Light and Power ..	37,834	20,793	9,428	7,681	2,992	34,144	112,872
Grand Total ..	350,169	280,207	63,927	61,084	36,846	59,453	851,686

(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 1953-54 to 1957-58:—

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
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	635,582
1956-57	303,981	252,024	58,654	53,343	35,520	56,473	761,995
1957-58	350,169	280,207	63,927	61,084	36,846	59,453	851,686

(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 £851.7 million in 1957-58.

3. *Value of Plant and Machinery.*—(i) *Total for Australia, 1938-39 and 1953-54 to 1957-58.* 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.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58.
I. Treatment of Non-metalliferous						
Mine and Quarry Products ..	7,028	17,829	20,625	23,512	27,351	30,623
II. Bricks, Pottery, Glass, etc. ..	3,145	9,741	11,000	12,319	13,138	13,443
III. Chemicals, Dyes, Explosives,						
Paints, Oils, Grease ..	6,754	53,528	97,508	125,016	127,732	137,520
IV. Industrial Metals, Machines,						
Conveyances ..	33,038	148,178	168,651	202,286	251,161	289,969
V. Precious Metals, Jewellery, Plate	197	1,002	1,094	1,219	1,374	1,388
VI. Textiles and Textile Goods (not						
Dress) ..	6,658	27,567	29,658	31,155	32,570	36,040
VII. Skins and Leather (not Clothing						
or Footwear) ..	973	4,034	4,153	4,225	4,332	4,240
VIII. Clothing (except Knitted) ..	2,557	12,363	13,452	14,340	15,699	15,621
IX. Food, Drink and Tobacco ..	32,101	90,624	101,700	115,904	124,406	131,708
X. Sawmills, Joinery, Boxes, etc.,						
Wood Turning and Carving ..	3,907	19,002	21,827	23,626	25,045	27,043
XI. Furniture of Wood, Bedding, etc.	728	2,870	3,186	3,388	3,632	3,802
XII. Paper, Stationery, Printing,						
Bookbinding, etc. ..	9,188	41,866	46,129	51,405	53,755	59,509
XIII. Rubber ..	1,368	5,677	6,843	8,971	8,626	10,234
XIV. Musical Instruments ..	12	458	444	509	682	429
XV. Miscellaneous Products ..	758	5,968	6,614	7,459	8,515	10,417
<i>Total, Classes I. to XV. ..</i>	<i>108,412</i>	<i>440,707</i>	<i>532,884</i>	<i>625,334</i>	<i>698,018</i>	<i>771,986</i>
XVI. Heat, Light and Power ..	35,250	140,008	165,408	178,206	225,936	249,365
Grand Total	143,662	580,715	698,292	803,540	923,954	1,021,351

(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 1957-58 of £97.4 million over 1956-57 extended over all industrial classes except Classes VII., Skins and Leather, etc., VIII. Clothing (except Knitted) and XIV. Musical Instruments. 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 1953-54 to 1957-58. During 1957-58 increases occurred in all States, New South Wales showing the largest increase, £52.5 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
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
1957-58	415,838	310,879	104,598	79,336	63,840	46,860	1,021,351

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

(iii) *Value according to Class of Industry, 1957-58.* The following table shows the value of plant and machinery used in factories in each State during 1957-58 according to class of industry:—

FACTORIES: VALUE OF PLANT AND MACHINERY(a), 1957-58.

(£'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	15,061	6,569	2,667	3,611	1,898	817	30,623
II. Bricks, Pottery, Glass, etc.	7,345	3,005	859	866	1,180	188	13,443
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease	54,290	51,435	1,867	6,176	21,325	2,427	137,520
IV. Industrial Metals, Machines, Conveyances	164,252	69,561	10,996	25,280	9,315	10,565	289,969
V. Precious Metals, Jewellery, Plate	574	588	43	120	55	8	1,388
VI. Textiles and Textile Goods (not Dress)	10,849	19,420	949	2,122	429	2,271	36,040
VII. Skins and Leather (not Clothing or Footwear)	1,693	1,407	391	513	201	35	4,240
VIII. Clothing (except Knitted)	5,759	6,850	1,253	953	566	240	15,621
IX. Food, Drink and Tobacco	36,150	38,525	37,682	9,038	6,019	4,294	131,708
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving	8,652	5,237	5,072	3,347	2,335	2,400	27,043
XI. Furniture of Wood, Bedding, etc.	1,387	1,189	493	404	255	74	3,802
XII. Paper, Stationery, Printing, Bookbinding, etc.	19,131	20,925	6,337	2,982	1,705	8,429	59,509
XIII. Rubber	4,065	4,603	743	474	221	128	10,234
XIV. Musical Instruments	309	106	5	6	3	..	429
XV. Miscellaneous Products	4,507	5,246	161	362	103	38	10,417
<i>Total, Classes I. to XV.</i>	<i>334,024</i>	<i>234,666</i>	<i>69,518</i>	<i>56,254</i>	<i>45,610</i>	<i>31,914</i>	<i>771,986</i>
XVI. Heat, Light and Power	81,814	76,213	35,080	23,082	18,230	14,946	249,365
Grand Total	415,838	310,879	104,598	79,336	63,840	46,860	1,021,351

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

4. **Depreciation of Land and Buildings and Plant and Machinery, 1957-58.**—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, 1957-58.

(£'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	1,774	694	369	415	205	80	3,537
II. Bricks, Pottery, Glass, etc. ..	1,050	511	145	119	137	33	1,995
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease ..	5,241	5,040	329	852	2,145	527	14,134
IV. Industrial Metals, Machines, Conveyances	15,913	7,213	1,171	3,085	844	920	29,146
V. Precious Metals, Jewellery, Plate ..	48	59	3	11	3	1	125
VI. Textiles and Textile Goods (not Dress)	1,281	2,580	95	156	59	251	4,422
VII. Skins and Leather (not Clothing or Footwear) ..	154	138	35	70	26	2	425
VIII. Clothing (except Knitted) ..	624	616	118	72	61	44	1,535
IX. Food, Drink and Tobacco	3,744	4,436	3,398	1,123	668	431	13,800
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving	1,013	796	465	277	237	264	3,052
XI. Furniture of Wood, Bedding, etc. ..	152	113	49	42	24	6	386
XII. Paper, Stationery, Printing, Bookbinding, etc. ..	1,925	2,825	630	323	202	821	6,726
XIII. Rubber ..	931	913	150	111	37	15	2,157
XIV. Musical Instruments ..	43	9	1	..	..	..	53
XV. Miscellaneous Products ..	627	753	17	37	11	3	1,448
<i>Total, Classes I. to XV.</i>	<i>34,520</i>	<i>26,696</i>	<i>6,975</i>	<i>6,693</i>	<i>4,659</i>	<i>3,398</i>	<i>82,941</i>
XVI. Heat, Light and Power ..	6,713	690	1,884	840	1,002	621	11,750
Grand Total	41,233	27,386	8,859	7,533	5,661	4,019	94,691

5. Land and Buildings, Plant and Machinery—Values, Additions and Replacements, Depreciation, 1938-39 and 1953-54 to 1957-58.—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
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
1957-58.. ..	851,686	1,021,351	75,762	176,903	10,414	84,277

(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, 1956 to 1958. 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.	1955-56.	1956-57.	1957-58.
Acid—				
Nitric	Ton	14,216	15,520	14,837
Sulphuric	"	896,472	878,763	991,624
Aerated and Carbonated Water	'000 gals.	60,891	61,242	69,165
Asbestos Cement Building Sheets	'000 sq. yds.	26,679	25,444	26,026
Bacon and Ham				
Bags, Leather, Fibre, etc.—	'000 lb.	75,641	71,156	71,671
Handbags—				
Leather	No.	848,144	748,571	915,636
Plastic	"	800,217	922,068	1,011,201
Other	"	122,228	103,308	103,336
School Bags	"	101,505	98,358	80,961
Suitcases (a)	"	1,315,656	1,203,479	1,231,218
Trunks	"	1,204	1,256	1,288
All other (b)	"	292,042	321,685	322,961
Baking Powder	lb.	617,101	650,272	585,096
Bath Heaters—				
Electric	No.	17,076	14,698	12,415
Gas	"	27,560	25,243	26,234
Solid Fuel	"	40,532	33,691	31,581
Bathing Suits	Doz.	228,089	165,758	180,941
Baths, C.I.P.E.	No.	104,998	88,959	88,206
Batteries—Wet Cell Type—				
Auto (S.L.I.)— 6 Volts	No.			635,922
12 Volts	"			618,889
Radio, etc.	No. of 2 Volt Cells		Not collected in this dissection	236,501
Traction	"			32,591
Other	"			15,583
Beer (excluding Waste Beer)	'000 gals.	227,496	220,728	226,449
Biscuits	'000 lb.	158,554	162,536	165,529
Blankets	'000	1,657	1,678	1,855
Boots, Shoes and Slippers (not Rubber)—				
Boots and Shoes	'000 pairs	18,006	19,007	19,062
Sandals	"	1,809	1,932	2,334
Slippers	"	7,977	8,214	9,153
Bran (Wheaten)	Ton (2,000 lb.)	277,638	281,915	232,578
Brassieres	Doz.	421,142	423,441	477,600
Bricks, Clay	'000	840,343	805,069	877,905
Brooms	Gross	19,862	21,003	21,413
Brushes (c)	"	87,594	78,753	99,565
Butter	Ton	205,791	189,841	172,918
Candles				
Cardigans, Sweaters, etc.	Cwt.	10,011	10,354	7,444
Cement, Portland	Doz.	1,051,285	1,148,779	1,256,668
Cement, Portland	Ton	2,034,554	2,172,518	2,291,043
Cheese	"	38,681	45,171	35,895
Cigarettes	'000 lb.	27,162	30,513	32,748
Cleansing and Scouring Powders—				
Soap based (Incl. Sand Soap)	Cwt.	82,682	78,168	72,586
Other	"	72,230	101,184	127,127
Cloth—				
Cotton	'000 sq. yds.	40,151	46,564	44,261
Woollen and Worsted (d)	"	30,279	32,782	32,119
Coke—				
Metallurgical	Ton	2,058,426	2,234,458	2,295,737
Other	"	1,031,135	954,756	821,615
Confectionery—				
Chocolate	'000 lb.	62,405	68,810	63,796
Other	"	83,069	87,395	88,881
Coppers—				
Electric	No.	27,075	21,890	20,943
Gas	"	27,480	24,170	22,072
Inserts (all types)	"	68,827	50,653	41,849
Cordials and Syrups	'000 gals.	4,677	4,623	4,619
Corsets and Corselets	Doz.	156,837	145,414	177,652

(a) Includes kitbags, metal and bristle brushes.

(b) Excludes canvas waterbags. (c) Excludes tooth and industrial

(d) Includes mixtures.

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

Article.	Unit of Quantity.	1955-56.	1956-57.	1957-58.
Lime—Agricultural	Ton	123,338	120,298	125,290
Hydrated	"	54,172	52,843	53,025
Quick	"	117,578	109,667	116,019
Linseed Oil—extracted from Local Crushing	'000 gals.	1,448	1,645	889
from treatment of Unrefined	"	2,631	2,326	2,635
Lubricating Oil	tons	52,268	49,755	66,669
Malt, Barley	'000 bus.	7,782	7,895	8,197
Margarine—				
Table	'000 lb.	26,552	38,632	36,033
Other	"	43,443	44,576	47,017
Mattresses—Wire	No.	311,518	298,212	330,538
Inner Spring	"	501,106	507,844	568,900
Soft Filled, etc.	"	362,937	337,017	297,778
Meat, Tinned	'000 lb.	157,969	154,731	187,268
Milk—				
Concentrated (Whole)	"	31,038	33,924	27,863
Condensed	"	99,368	111,329	105,594
Powdered (Whole) (a)	"	67,361	70,405	71,792
Mops, Floor	Gross	13,768	11,929	12,558
Motor Bodies made	No.	129,700	120,781	160,675
Motor Bodies Assembled	"	94,676	77,548	81,630
Motor Spirit (including Benzol)	'000 gals.	617,356	833,927	945,724
Motors, Electric	No.	1,116,840	954,318	1,127,482
Nails	Ton	25,058	26,340	24,191
Neckties	Doz.	516,835	532,868	489,213
Newsprint	Ton	79,015	79,600	81,085
Oatmeal (including Rolled Oats)	Cwt.	365,980	402,782	430,822
Paint—Oil (including Enamels)	'000 gals.	10,679	10,873	11,090
Water (including Kalsomine)	'000 lb.	26,306	25,920	(b) 3,916
Peanut Butter and Paste	"	4,736	4,346	5,433
Perambulators	No.	160,374	149,596	156,657
Pickles	'000 pints	5,711	6,469	5,503
Pigments—Tinting Colours ground in oil	Gal.	(c)	(c)	27,118
Zinc Oxide	Cwt.	165,300	162,953	158,261
White Lead	"	369,613	398,592	376,585
Other, including Dry Colours	"			
Plywood, $\frac{1}{8}$ inch basis	'000 sq. ft.	200,699	194,365	212,876
Pollard	Ton (2,000 lb.)	332,564	351,549	290,160
Preserves—				
Fruit Preserved (d)	'000 lb.	304,299	289,510	349,411
Vegetables Preserved	"	77,822	98,418	87,044
Pyjamas—				
Men's and Boys' (Suits only)	Doz.	279,734	283,055	328,018
Women's and Girls' (inc. Nightdresses)	"	359,780	399,995	460,441
Racquet Frames (all types)	"	16,651	16,147	17,616
Refrigerators—Commercial	No.	1,756	1,025	811
Domestic	"	247,360	195,517	195,925
Rice (Cleaned)	Cwt.	1,166,027	897,030	1,117,786
Ropes and Cables (excluding Wire)	"	128,873	131,746	130,413
Rugs	'000	142	163	177
Sauce	'000 pints	28,668	33,494	29,328
Sausage Casings	Cwt.	80,769	95,218	78,374
Semolina	"	129,536	140,536	130,179
Shirts (Men's and Boys')	Doz.	1,309,501	1,425,312	1,530,310
Sink Heaters	No.	24,842	23,635	19,356
Soap and Detergents—				
Soap—Personal Toilet	Cwt.	327,949	320,846	372,680
Household	"	744,109	716,568	766,130
Industrial (Incl. Wool Scouring) (e)	"	197,590	194,476	172,986
Extracts and Powders—Household	"	822,988	791,267	787,961
Industrial	"	87,455	75,694	87,998
Detergents—Personal Toilet	"	6,000	8,763	9,101
Household	"	91,901	114,510	146,847
Industrial	"	22,499	34,460	35,797
Extracts and Powders—				
Household	"	34,698	78,089	183,218
Industrial	"	39,131	45,558	48,846

(a) Includes malted milk and infants' and invalids' foods. (b) Water paint in powder form only, including Kalsomine. Excludes production of emulsion types which was 1,801,000 gallons. (c) Not recorded. (d) Includes canned apple, all types. (e) Includes industrial flakes and chips.

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

Article.	Unit of Quantity.	1955-56.	1956-57.	1957-58.
Socks and Stockings—				
Men's and Youths'	'000 Doz. pairs	1,396	1,454	1,472
Women's and Maids'	"	2,304	2,570	2,218
Infants' and Babywear (including Anklets)	"	1,227	1,191	1,125
Soup—Tinned	'000 pints	35,316	44,538	27,346
Dry-Mix	'000 lb.	3,771	4,532	3,606
Spades and Shovels	Doz.	33,874	33,255	23,796
Starch—Edible	Cwt.	391,766	468,308	443,894
Inedible	"	96,929	124,895	140,891
Steel, Structural, Fabricated	Ton	217,124	240,491	226,653
Stoves, Ovens and Ranges—				
Domestic Cooking—				
Electric (a)	No.	92,258	99,525	92,413
Gas	"	58,080	54,966	56,300
Solid Fuel	"	47,300	46,005	43,229
Sugar—Raw (94 net titre)	Ton	1,171,713	1,207,797	1,293,125
Refined	"	482,660	480,393	493,093
Sulphate of Ammonia	"	75,321	110,898	118,732
Superphosphate	"	2,125,803	1,975,015	2,219,592
Talcum Powder	Cwt.	35,824	35,084	36,708
Tallow—				
Edible	"	533,128	584,242	620,290
Inedible	"	1,465,502	1,655,807	1,735,372
Television Sets (b)	No.	2,636	121,232	282,430
Tiles, Roofing—				
Cement	'000	53,782	44,595	49,468
Terracotta	"	64,746	57,673	58,935
Timber—				
From Native Logs—				
Hardwood	'000 super. ft.	1,180,936	1,151,429	1,127,150
Softwood	"	268,785	267,431	264,027
From Imported Logs—				
Hardwood	"	27,894	26,853	28,634
Softwood	"	173,549	174,531	167,984
Toasters, Electric (Domestic)	No.	18,836	18,917	18,192
Tobacco	'000 lb.	1,208,758	1,508,439	1,407,645
Tomato Juice	Gal.	767,751	740,344	807,227
Towels	Doz.			
Transformers, Chokes and Ballasts—	Number			
For distribution of Power and Light, etc.	"			51,333
For Fluorescent Lights and Neon Signs ..	"			1,306,566
For Radio Receivers, Record Players, etc.	"			250,052
For Television Receivers	"			241,900
For Welders	"			2,761
For other purposes	"			50,918
Twine (all types)	Cwt.	133,694	131,424	121,405
Tyres, Pneumatic—				
Motor Car and Motor Cycle	No.	2,907,492	2,711,087	3,003,646
Truck and Omnibus	"	544,807	536,384	502,725
All Other (excl. Bicycle)	"	184,273	190,577	295,189
Umbrellas	'000 doz.	570,156	622,554	470,953
Underwear	"	4,460	4,687	4,740
Vacuum Cleaners (Domestic)	No.	55,674	83,910	81,257
Washing Machines, Household, Electric ..	No.	165,558	144,422	164,100
Weatherboards—				
Australian Timber	'000 super. ft.	23,910	22,937	24,992
Imported Timber	"	2,150	1,759	4,083
Wheatmeal (c)	Ton (2,000 lb.)	110,635	123,854	123,050
Wheelbarrows (Metal)	No.	73,031	66,999	63,403
Wireless and Television Cabinets	No.	383,139	429,647	557,842
Wireless Receiving Sets (incl. Radiograms)	"	458,012	366,282	380,753
Wool Scoured—				
For Sale	'000 lb.	38,921	43,632	47,663
For use in own works	"	40,875	47,625	36,866
On Commission	"	65,025	74,506	69,433
Wool Tops	"	35,640	42,661	39,253
Yarn (d)				
Cotton	"	40,543	41,981	44,645
Woolen	"	20,033	22,884	24,152
Worsted	"	23,180	24,818	21,455
Zinc Oxide (See Pigments)				

(a) Includes stoves, cookers, etc. (b) Production commenced late in 1955-56. Number produced in 1958-59 was 318,899. (c) Excludes wheatmeal for baking included with flour. (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, para. 6 of this chapter, page 150.

Details of some of the principal articles produced in factories in Australia during the years 1955–56 to 1957–58 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 1957–58 and for a series of years in the following table:—

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

AUSTRALIA, 1957–58.

Items.	Portland Cement.	Asbestos Cement Sheets and Mouldings.	Other Cement Goods.	Total.
Number of factories	14	13	454	481
Number of persons employed	3,119	2,403	5,472	10,994
Salaries and wages paid	£'000 3,210	2,488	5,166	10,864
Value of power, fuel, etc., used	£'000 4,601	287	236	5,124
Value of materials used	£'000 6,882	5,352	13,345	25,579
Value of production	£'000 8,804	4,363	9,954	23,121
Total value of output	£'000 20,287	10,002	23,535	53,824
Value of land and buildings	£'000 3,378	1,191	2,838	7,407
Value of plant and machinery	£'000 14,150	1,776	3,897	19,823
Horse-power of engines ordinarily in use h.p.	79,000	11,041	16,864	106,905

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

AUSTRALIA.

Items.	1938-39.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58.
Number of factories	132	479	480	489	479	481
Number of persons employed	3,932	9,304	10,444	11,167	10,688	10,994
Salaries and wages paid £'000	897	7,435	8,704	10,044	10,312	10,864
Value of power, fuel, etc., used £'000	562	3,950	4,445	4,792	5,119	5,124
Value of materials used £'000	1,542	16,013	19,418	21,999	23,226	25,579
Value of production £'000	2,385	14,198	17,009	19,460	21,228	23,121
Total value of output £'000	4,489	34,161	40,872	46,251	49,573	53,824
Value of land and buildings £'000	1,350	4,206	4,726	6,128	6,994	7,407
Value of plant and machinery £'000	2,516	10,796	13,208	15,542	18,454	19,823
Horse-power of engines ordinarily in use h.p.	39,617	89,260	95,870	108,715	105,805	106,905

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 1957-58 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).

1957-58.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	149	86	19	14	11	2	281
Number of persons employed	6,905	6,640	305	914	(a)	(a)	15,085
Salaries and wages paid £'000	7,690	6,724	277	909	(a)	(a)	15,875
Value of power, fuel, etc., used £'000	2,382	1,065	80	569	(a)	(a)	4,208
Value of materials used £'000	24,180	16,853	579	1,320	(a)	(a)	43,497
Value of production £'000	19,377	12,661	683	2,639	(a)	(a)	35,930
Total value of output £'000	45,939	30,579	1,342	4,528	(a)	(a)	83,635
Value of land and buildings £'000	9,968	9,675	236	839	(a)	(a)	21,055
Value of plant and machinery £'000	19,389	13,992	218	1,808	(a)	(a)	36,157
Horse-power of engines ordinarily in use h.p.	57,714	53,385	1,838	5,321	(a)	(a)	121,393

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

AUSTRALIA.

Items.	1945-46.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58.
Number of factories	165	234	248	258	270	281
Number of persons employed	10,228	11,765	13,032	14,107	14,509	15,085
Salaries and wages paid £'000	3,450	9,907	11,833	13,574	14,684	15,875
Value of power, fuel, etc., used £'000	618	2,757	3,043	3,462	3,845	4,208
Value of materials used £'000	6,007	25,158	29,004	33,506	38,335	43,497
Value of production £'000	6,627	20,643	25,095	29,895	34,513	35,930
Total value of output £'000	13,252	48,558	57,142	66,863	76,693	83,635
Value of land and buildings £'000	11,697	13,389	14,190	15,987	17,831	21,055
Value of plant and machinery £'000	10,964	23,573	25,607	27,125	29,190	36,157
Horse-power of engines ordinarily in use h.p.	69,399	90,807	95,188	101,527	107,787	121,393

PHARMACEUTICAL AND TOILET PREPARATIONS.

1957-58.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	129	59	6	13	4	1	212
Number of persons employed	3,498	2,655	114	489	(a)	(a)	6,834
Salaries and wages paid £'000	2,692	2,376	67	347	(a)	(a)	5,531
Value of power, fuel, etc., used £'000	107	241	1	33	(a)	(a)	386
Value of materials used £'000	9,521	6,499	280	1,805	(a)	(a)	18,226
Value of production £'000	14,721	5,945	143	893	(a)	(a)	21,856
Total value of output £'000	24,349	12,685	424	2,731	(a)	(a)	40,468
Value of land and buildings £'000	3,984	5,224	62	295	(a)	(a)	9,677
Value of plant and machinery £'000	1,369	1,706	20	138	(a)	(a)	3,262
Horse-power of engines ordinarily in use h.p.	4,514	8,738	83	1,489	(a)	(a)	14,962

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

AUSTRALIA.

Items.	1945-46.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58.
Number of factories	215	208	210	206	206	212
Number of persons employed	5,514	6,012	6,233	6,400	6,446	6,834
Salaries and wages paid £'000	1,699	3,898	4,255	4,635	5,020	5,531
Value of power, fuel, etc., used £'000	57	238	223	259	312	386
Value of materials used £'000	5,402	12,017	12,729	13,565	15,292	18,226
Value of production £'000	4,790	12,969	14,380	15,279	17,312	21,856
Total value of output £'000	10,249	25,224	27,332	29,103	32,916	40,468
Value of land and buildings £'000	1,534	4,755	6,022	6,830	7,828	9,677
Value of plant and machinery £'000	598	1,793	2,129	2,686	2,746	3,262
Horse-power of engines ordinarily in use h.p.	6,324	12,777	13,592	14,301	16,666	14,962

4. White Lead, Paints and Varnish.—The following table shows particulars of this industry for each State during 1957-58 and for Australia for a series of years:—

WHITE LEAD, PAINTS AND VARNISH.

1957-58.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	85	52	18	15	11	3	184
Number of persons employed	3,029	1,724	327	539	(a)	(a)	5,749
Salaries and wages paid £'000	3,042	1,710	264	480	(a)	(a)	5,608
Value of power, fuel, etc., used £'000	297	100	16	26	(a)	(a)	445
Value of materials used £'000	12,682	7,197	1,610	2,412	(a)	(a)	24,619
Value of production £'000	7,171	3,282	1,186	1,826	(a)	(a)	13,853
Total value of output £'000	20,150	10,579	2,812	4,264	(a)	(a)	38,917
Value of land and buildings £'000	2,610	2,476	332	685	(a)	(a)	6,397
Value of plant and machinery £'000	1,392	1,934	147	439	(a)	(a)	3,986
Horse-power of engines ordinarily in use h.p.	13,368	7,643	1,510	2,081	(a)	(a)	25,443

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

AUSTRALIA.

Items.	1938-39.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58.
Number of factories	102	174	175	178	186	184
Number of persons employed	2,271	4,934	5,322	5,804	5,815	5,749
Salaries and wages paid £'000	535	3,757	4,636	5,300	5,508	5,608
Value of power, fuel, etc., used £'000	45	337	376	384	400	445
Value of materials used £'000	2,275	18,603	21,553	23,504	23,916	24,619
Value of production £'000	1,585	9,891	11,980	12,874	13,567	13,853
Total value of output £'000	3,905	28,831	33,909	36,762	37,883	38,917
Value of land and buildings £'000	761	4,066	5,089	5,563	6,680	6,397
Value of plant and machinery £'000	324	2,230	2,892	3,261	3,408	3,986
Horse-power of engines ordinarily in use h.p.	7,696	22,719	24,178	25,050	26,969	25,443

5. Soap and Candle Factories.—The following table shows particulars of factories in the Soap and Candle industry in each State for 1957-58 and for Australia for a series of years:—

SOAP AND CANDLES.

1957-58.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	45	25	9	6	3	2	90
Number of persons employed	1,791	762	256	83	(a)	(a)	2,983
Salaries and wages paid £'000	1,669	822	202	66	(a)	(a)	2,830
Value of power, fuel, etc., used £'000	197	205	21	10	(a)	(a)	441
Value of materials used £'000	7,776	5,330	785	214	(a)	(a)	14,446
Value of production £'000	6,997	2,908	445	77	(a)	(a)	10,525
Total value of output £'000	14,970	8,443	1,251	301	(a)	(a)	25,412
Value of land and buildings £'000	745	823	157	78	(a)	(a)	1,871
Value of plant and machinery £'000	1,160	1,488	190	58	(a)	(a)	2,973
Horse-power of engines ordinarily in use h.p.	5,568	3,806	981	615	(a)	(a)	11,296

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

AUSTRALIA.

Items.	1938-39.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58.
Number of factories	65	89	91	92	87	90
Number of persons employed	2,620	3,058	2,962	3,167	2,932	2,983
Salaries and wages paid £'000	501	2,544	2,589	2,858	2,704	2,830
Value of power, fuel, etc. used £'000	76	427	420	406	393	441
Value of materials used £'000	1,568	10,214	11,941	12,057	12,437	14,446
Value of production £'000	1,886	6,732	7,425	8,147	9,150	10,525
Total value of output £'000	3,530	17,373	19,786	20,610	21,980	25,412
Value of land and buildings £'000	666	1,565	1,619	1,743	1,784	1,871
Value of plant and machinery £'000	577	2,244	2,653	3,001	3,150	2,973
Horse-power of engines ordinarily in use h.p.	5,267	8,795	8,676	10,711	10,922	11,296
Materials used—						
Tallow cwt.	535,511	1,120,828	1,151,146	1,162,578	1,152,865	1,219,538
Alkali for Soap (a)	194,869	377,451	421,401	390,757	366,796	386,712
Coconut oil—refined and unrefined cwt.	138,954	86,576	93,498	83,346	80,395	94,952
Articles produced—						
Soap (excl. Sand Soap)	908,797	1,225,183	1,263,226	1,269,648	1,231,890	1,311,796
Cleansers and Scourers (inc. Sand Soap) cwt.	123,702	121,232	115,530	105,046	78,186	72,586
Soap Extracts and Powders	191,232	890,241	1,007,494	910,443	866,961	875,959
Candles made	28,649	8,611	10,369	10,011	10,354	7,444

(a) Includes Soda Ash.

NOTE.—Preliminary figures of production in 1958-59 were Soap, 1,243,000 cwt.; Cleansers and Scourers, 63,000 cwt.; and Soap Extracts and Powders, 802,000 cwt.

6. Chemical Fertilizers.—The following table shows particulars of the factories engaged in the manufacture of chemical fertilizers in each State during 1957-58 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.

1957-58.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	12	8	8	8	6	7	49
Number of persons employed	816	1,610	(a)	895	1,004	(a)	5,050
Salaries and wages paid £'000	842	1,739	(a)	937	1,008	(a)	5,309
Value of power, fuel, etc., used £'000	229	284	(a)	81	165	(a)	950
Value of materials used £'000	3,836	8,470	(a)	6,048	6,413	(a)	28,862
Value of production £'000	1,942	3,856	(a)	1,870	2,211	(a)	12,175
Total value of output £'000	6,007	12,610	(a)	7,999	8,789	(a)	41,987
Value of land and buildings £'000	3,078	9,450	(a)	729	1,876	(a)	7,583
Value of plant and machinery £'000	2,546	1,387	(a)	3,371	1,883	(a)	10,835
Horse-power of engines ordinarily in use h.p.	15,170	14,481	(a)	9,846	8,050	(a)	58,212

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

CHEMICAL FERTILIZERS—*continued.*

AUSTRALIA.

Items.	1938-39.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58.
Number of factories	36	51	53	54	52	49
Number of persons employed	2,540	4,531	4,735	4,911	5,074	5,050
Salaries and wages paid £'000	601	3,988	4,372	4,809	5,069	5,309
Value of power, fuel, etc., used £'000	114	842	852	939	1,160	950
Value of materials used £'000	3,231	20,521	21,519	24,098	25,479	28,862
Value of production £'000	1,600	8,109	8,794	10,267	10,158	12,175
Total value of output £'000	4,945	29,472	31,165	35,304	36,797	41,987
Value of land and buildings £'000	1,449	6,067	6,512	7,033	7,341	7,583
Value of plant and machinery £'000	2,353	8,067	9,270	11,645	11,404	10,835
Horse-power of engines ordinarily in use h.p.	18,165	41,644	47,595	58,044	59,457	58,212

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 1957-58 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.

1957-58.

Items.	N.S.W.	Vic.	Q'land.	S.A.	W.A.	Tas.	Aust.
Number of factories	17	11	..	5	2	..	35
Number of persons employed	26,622	1,345	..	(a)	(a)	..	28,526
Salaries and wages paid £'000	29,513	1,396	..	(a)	(a)	..	31,469
Value of power, fuel, etc., used £'000	19,423	313	..	(a)	(a)	..	22,150
Value of materials used £'000	134,882	1,189	..	(a)	(a)	..	137,674
Value of production £'000	66,289	1,859	..	(a)	(a)	..	70,379
Total value of output £'000	220,594	3,361	..	(a)	(a)	..	230,203
Value of land and buildings £'000	9,341	280	..	(a)	(a)	..	9,953
Value of plant and machinery £'000	67,454	374	..	(a)	(a)	..	71,048
Horse-power of engines ordinarily in use h.p.	511,733	8,259	..	(a)	(a)	..	536,530

AUSTRALIA.

Items.	1945-46.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58.
Number of factories	27	33	33	(b) 28	34	35
Number of persons employed	10,413	16,688	17,842	20,805	26,078	28,526
Salaries and wages paid £'000	4,164	15,609	18,238	22,037	28,636	31,469
Value of power, fuel, etc., used £'000	2,777	15,430	15,670	17,864	20,538	22,150
Value of materials used £'000	19,134	88,802	94,928	101,416	136,483	137,674
Value of production £'000	7,393	27,995	34,381	44,269	66,385	70,379
Total value of output £'000	29,304	132,227	144,979	163,549	223,406	230,203
Value of land and buildings £'000	2,197	6,508	6,615	6,457	9,054	9,953
Value of plant and machinery £'000	5,669	24,279	26,394	29,154	61,608	71,048
Horse-power of engines ordinarily in use h.p.	198,317	287,618	339,135	363,751	448,541	536,530

(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 1957-58 and for Australia in selected years in the following table:—

FOUNDRIES—FERROUS.

1957-58.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	85	224	23	23	18	..	373
Number of persons employed ..	2,855	3,073	840	503	530	..	7,801
Salaries and wages paid .. £'000	2,799	3,047	790	465	447	..	7,548
Value of power, fuel, etc., used £'000	352	393	55	77	120	..	997
Value of materials used .. £'000	2,100	3,091	701	390	382	..	6,664
Value of production .. £'000	4,002	4,530	1,271	688	746	..	11,237
Total value of output .. £'000	6,454	8,014	2,027	1,155	1,248	..	18,898
Value of land and buildings .. £'000	1,359	2,030	517	186	152	..	4,244
Value of plant and machinery .. £'000	1,007	1,715	534	164	195	..	3,615
Horse-power of engines ordinarily in use h.p.	11,170	13,151	3,450	2,380	2,891	..	33,042

AUSTRALIA.

Items.	1945-46.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58.
Number of factories	312	357	368	373	368	373
Number of persons employed ..	5,344	6,611	7,099	7,434	7,633	7,801
Salaries and wages paid .. £'000	1,612	5,129	6,116	6,706	7,060	7,548
Value of power, fuel, etc., used .. £'000	161	702	796	918	975	997
Value of materials used £'000	1,210	4,057	4,881	5,396	6,221	6,664
Value of production £'000	2,341	7,469	8,983	9,652	10,235	11,237
Total value of output £'000	3,712	12,228	14,660	15,966	17,431	18,898
Value of land and buildings .. £'000	988	2,299	2,623	3,564	3,899	4,244
Value of plant and machinery .. £'000	619	2,123	2,342	3,234	3,545	3,615
Horse-power of engines ordinarily in use h.p.	13,381	25,415	26,451	30,738	32,835	33,042

(iv) *Plant, Equipment and Machinery (including Machine Tools)*. The next table shows particulars for this group for each State during 1957-58 and for Australia in selected years:—

PLANT, EQUIPMENT AND MACHINERY (INCLUDING MACHINE TOOLS).

1957-58.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	1,097	686	155	192	101	9	2,240
Number of persons employed ..	27,273	24,431	6,482	7,928	3,171	235	69,540
Salaries and wages paid .. £'000	27,381	24,036	5,343	7,317	2,692	231	67,000
Value of power, fuel, etc., used .. £'000	1,094	1,034	242	439	130	5	2,964
Value of materials used £'000	50,364	40,266	7,308	12,479	3,954	345	114,716
Value of production £'000	46,033	40,139	8,353	11,556	4,000	284	110,365
Total value of output £'000	97,491	81,459	15,903	24,474	8,084	634	228,045
Value of land and buildings .. £'000	18,834	17,698	2,400	4,151	2,243	266	45,592
Value of plant and machinery .. £'000	12,535	12,779	1,946	3,714	1,630	201	32,805
Horse-power of engines ordinarily in use h.p.	93,748	82,291	18,806	29,324	11,414	647	236,230

AUSTRALIA.

Items.	1945-46.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58.
Number of factories	1,038	1,911	1,980	2,062	2,212	2,240
Number of persons employed ..	46,123	60,840	64,588	68,699	69,476	69,540
Salaries and wages paid £'000	14,259	47,620	54,561	61,872	65,272	67,000
Value of power, fuel, etc., used .. £'000	605	2,219	2,378	2,570	2,775	2,964
Value of materials used £'000	16,455	68,288	80,462	93,510	99,172	114,716
Value of production £'000	21,044	75,997	87,040	98,574	106,922	110,365
Total value of output £'000	38,104	146,504	169,880	194,654	208,869	228,045
Value of land and buildings £'000	7,227	25,259	28,687	34,019	39,692	45,592
Value of plant and machinery £'000	7,046	21,335	23,548	26,261	29,112	32,805
Horse-power of engines ordinarily in use h.p.	101,810	198,300	201,626	217,880	222,937	236,230

(v) *Other Engineering.* Details covering jobbing and general engineering works not elsewhere included are shown for each State for 1957-58 and for Australia in selected years in the following table:—

OTHER ENGINEERING.
1957-58.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	795	830	164	184	151	99	2,223
Number of persons employed ..	6,805	8,607	1,736	3,698	905	1,619	23,370
Salaries and wages paid .. £'000	6,089	7,911	1,357	3,318	668	1,425	20,768
Value of power, fuel, etc., used £'000	214	254	40	102	36	53	699
Value of materials used .. £'000	6,848	8,697	1,781	4,002	820	1,632	23,780
Value of production .. £'000	10,430	13,698	2,190	4,635	1,130	2,191	34,274
Total value of output .. £'000	17,492	22,649	4,011	8,739	1,986	3,876	58,753
Value of land and buildings £'000	4,989	5,865	844	2,283	568	936	15,485
Value of plant and machinery £'000	3,083	4,617	655	1,479	315	597	10,746
Horse-power of engines ordinarily in use h.p.	20,373	28,144	4,855	13,482	3,692	5,954	76,500

AUSTRALIA.

Items.	1945-46.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58.
Number of factories	963	2,041	2,128	2,220	2,166	2,223
Number of persons employed ..	13,112	20,981	22,540	24,445	23,148	23,370
Salaries and wages paid .. £'000	3,634	15,100	17,491	20,477	20,037	20,768
Value of power, fuel, etc., used .. £'000	162	530	599	698	674	699
Value of materials used .. £'000	3,599	16,427	20,834	24,534	22,320	23,780
Value of production .. £'000	5,432	23,755	28,025	32,949	31,568	34,274
Total value of output .. £'000	9,193	40,712	49,458	58,181	54,562	58,753
Value of land and buildings .. £'000	2,369	9,900	11,289	13,205	13,801	15,485
Value of plant and machinery .. £'000	2,091	7,044	8,070	9,363	9,440	10,746
Horse-power of engines ordinarily in use h.p.	26,095	62,774	66,406	78,246	72,254	76,500

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 1957-58 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 1938-39 are not comparable with those for later years.

EXTRACTING AND REFINING OF NON-FERROUS METALS: ALLOYS.
1957-58.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	28	24	5	2	(a) 1	3	63
Number of persons employed ..	1,291	306	600	(b)	(b)	(b)	7,254
Salaries and wages paid .. £'000	1,480	328	742	(b)	(b)	(b)	8,667
Value of power, fuel, etc., used £'000	533	45	726	(b)	(b)	(b)	4,413
Value of materials used .. £'000	12,968	2,886	14,932	(b)	(b)	(b)	58,120
Value of production .. £'000	3,350	809	1,384	(b)	(b)	(b)	18,138
Total value of output .. £'000	16,851	3,740	17,042	(b)	(b)	(b)	80,671
Value of land and buildings £'000	874	371	989	(b)	(b)	(b)	6,907
Value of plant and machinery £'000	1,955	236	1,373	(b)	(b)	(b)	15,262
Horse-power of engines ordinarily in use h.p.	10,943	1,018	7,874	(b)	(b)	(b)	76,070

AUSTRALIA.

Items.	1938-39.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58.
Number of factories	42	59	62	56	58	63
Number of persons employed ..	5,532	6,592	6,782	7,029	7,212	7,254
Salaries and wages paid .. £'000	1,613	6,069	6,432	7,434	8,720	8,667
Value of power, fuel, etc., used .. £'000	598	3,063	3,253	3,753	4,282	4,413
Value of materials used .. £'000	16,844	53,711	62,859	70,000	68,426	58,120
Value of production .. £'000	3,892	12,648	14,148	17,787	19,773	18,138
Total value of output .. £'000	21,334	69,422	80,260	91,540	92,481	80,671
Value of land and buildings .. £'000	1,177	2,743	3,044	6,155	6,566	6,907
Value of plant and machinery .. £'000	3,526	5,390	6,019	13,367	14,485	15,262
Horse-power of engines ordinarily in use h.p.	54,450	65,067	66,280	79,696	76,212	76,070

(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 1957–58 and for Australia for a series of years:—

ELECTRICAL MACHINERY, CABLES AND APPARATUS.
1957–58.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	549	370	70	69	75	19	1,152
Number of persons employed ..	30,040	11,971	1,810	1,568	800	205	46,394
Salaries and wages paid .. £'000	27,799	10,603	1,471	1,248	609	162	41,892
Value of power, fuel, etc., used £'000	1,461	589	38	36	20	11	2,155
Value of materials used .. £'000	57,060	21,932	2,622	1,570	705	323	84,212
Value of production .. £'000	47,809	16,342	2,184	1,864	956	434	69,589
Total value of output .. £'000	106,330	38,863	4,844	3,470	1,681	768	155,956
Value of land and buildings £'000	17,126	9,004	681	770	553	182	28,316
Value of plant and machinery £'000	12,609	6,359	528	320	140	90	20,046
Horse-power of engines ordinarily in use h.p.	61,739	28,827	4,198	2,065	1,434	416	98,679

AUSTRALIA.

Items.	1938–39.	1953–54.	1954–55.	1955–56.	1956–57.	1957–58.
Number of factories	360	1,028	1,064	1,099	1,153	1,152
Number of persons employed ..	10,666	38,377	42,007	43,841	44,594	46,394
Salaries and wages paid .. £'000	2,031	28,969	33,403	36,663	38,780	41,892
Value of power, fuel, etc., used .. £'000	105	1,391	1,651	1,808	1,964	2,155
Value of materials used £'000	3,195	58,237	69,962	75,129	76,256	84,212
Value of production £'000	3,655	49,032	54,637	57,036	63,198	69,589
Total value of output £'000	6,955	108,660	126,520	133,973	141,418	155,956
Value of land and buildings .. £'000	1,627	13,829	16,885	19,992	25,306	28,316
Value of plant and machinery .. £'000	897	9,709	11,915	13,854	16,409	20,046
Horse-power of engines ordinarily in use h.p.	12,043	74,088	81,058	83,279	91,991	98,679

10. **Railway and Tramway Workshops (Government and Local Authority).**—The railway and tramway workshops, which form an important part of Class IV., are owned chiefly by State Governments and Local Authorities. *Workshops (fifteen in 1957–58) controlled by non-public bodies are not included in the figures below.*

TRAMCARS AND RAILWAY ROLLING STOCK.(a)
1957–58.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	42	22	13	13	27	7	124
Number of persons employed ..	14,904	7,554	6,763	4,233	3,840	785	38,079
Salaries and wages paid .. £'000	13,495	6,487	5,507	3,734	3,042	681	32,946
Value of power, fuel, etc., used £'000	435	229	137	133	117	32	1,083
Value of materials used £'000	6,498	5,168	3,037	3,147	1,941	259	20,050
Value of production £'000	16,564	8,603	6,399	4,600	3,644	875	40,685
Total value of output £'000	23,497	14,000	9,573	7,880	5,702	1,166	61,818
Value of land and buildings .. £'000	6,139	2,064	785	1,543	544	700	11,775
Value of plant and machinery £'000	9,396	1,108	1,190	2,163	1,042	335	15,234
Horse-power of engines ordinarily in use h.p.	45,035	23,416	17,196	14,373	11,513	3,272	114,805

AUSTRALIA.

Items.	1938–39.	1953–54.	1954–55.	1955–56.	1956–57.	1957–58.
Number of factories	117	124	123	125	125	124
Number of persons employed ..	27,310	39,262	38,599	38,357	38,780	38,079
Salaries and wages paid .. £'000	6,721	28,425	30,777	33,159	33,670	32,946
Value of power, fuel, etc., used .. £'000	226	994	1,025	1,061	1,090	1,083
Value of materials used £'000	4,976	17,093	18,818	20,555	21,565	20,050
Value of production £'000	8,021	34,354	37,505	40,404	41,172	40,685
Total value of output £'000	13,223	52,441	57,348	62,020	63,827	61,818
Value of land and buildings .. £'000	6,737	9,730	10,524	11,076	11,494	11,775
Value of plant and machinery .. £'000	5,290	12,166	13,124	14,072	14,673	15,234
Horse-power of engines ordinarily in use h.p.	53,671	108,478	112,184	116,775	122,852	114,805

(a) Government and Local Authority only.

Two railway workshops in the Northern Territory are engaged in repairing rolling stock, etc., no new goods being manufactured. Particulars of these establishments 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 1957–58 for each branch of industry associated with the motor trade of Australia.

MOTOR VEHICLES: CONSTRUCTION, ASSEMBLY, REPAIRS, ETC., AUSTRALIA.
1957-58.

Items.	Construction and Assembly.	Repairs.	Motor Bodies (a)	Motor Accessories.	Total.
Number of factories	66	9,038	1,550	255	10,909
Number of persons employed	17,864	56,829	25,953	9,734	110,380
Salaries and wages paid £'000	18,219	41,047	23,520	9,100	91,886
Value of power, fuel, etc., used £'000	1,272	1,312	1,022	644	4,250
Value of materials used £'000	40,041	45,706	46,118	11,859	143,724
Value of production £'000	32,152	64,589	35,260	16,382	148,383
Total value of output £'000	73,465	111,607	82,400	28,885	296,357
Value of land and buildings £'000	16,107	53,416	13,684	6,354	89,561
Value of plant and machinery £'000	16,921	12,523	10,837	6,349	46,630
Horse-power of engines ordinarily in use h.p.	54,525	63,194	55,880	37,665	211,264

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

In the next table, similar details are shown on a State basis for 1957-58 and for Australia for selected years for these industries combined:—

MOTOR VEHICLES: CONSTRUCTION, ASSEMBLY, REPAIRS, ETC.
1957-58.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	4,530	2,751	1,309	1,004	972	343	10,909
Number of persons employed	37,546	37,080	10,223	16,686	6,353	2,492	110,380
Salaries and wages paid £'000	30,745	32,502	7,051	15,013	4,743	1,832	91,886
Value of power, fuel, etc., used £'000	1,367	1,743	222	669	191	58	4,250
Value of materials used £'000	54,092	43,829	8,067	27,945	7,756	2,035	143,724
Value of production £'000	50,238	52,455	14,351	20,665	7,680	2,994	148,383
Total value of output £'000	105,697	98,027	22,640	49,279	15,627	5,087	296,357
Value of land and buildings £'000	35,229	31,851	6,375	8,888	4,929	2,289	89,561
Value of plant and machinery £'000	16,736	17,222	2,039	8,361	1,658	614	46,630
Horse-power of engines ordinarily in use h.p.	71,058	79,733	12,739	41,155	13,593	2,986	211,264

AUSTRALIA.

Items.	1945-46.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58.
Number of factories	3,592	8,302	8,993	9,707	10,334	10,909
Number of persons employed	39,706	89,913	98,343	105,959	107,480	110,380
Salaries and wages paid £'000	10,582	62,454	73,073	84,082	86,282	91,886
Value of power, fuel, etc., used £'000	395	2,477	2,798	3,189	3,747	4,250
Value of materials used £'000	12,143	94,173	108,119	126,933	120,297	143,724
Value of production £'000	15,818	101,054	112,541	126,459	132,018	148,383
Total value of output £'000	28,356	197,704	223,458	256,581	256,062	296,357
Value of land and buildings £'000	9,878	45,835	55,451	66,235	78,817	89,561
Value of plant and machinery £'000	3,758	23,397	26,073	32,390	40,890	46,630
Horse-power of engines ordinarily in use h.p.	56,117	146,930	160,001	202,963	206,792	211,264

The table below shows the production and imports of motor bodies for 1938-39 and 1953-54 to 1958-59:—

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

Items.	1938-39.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58.	1958-59. (b)
Motor Bodies(a)—							
Made No.	79,436	113,833	126,079	129,700	120,781	160,675	169,992
Assembled from Panels imported or made elsewhere No.	(c)	43,077	62,383	94,676	77,548	81,630	78,482
Imported (d) No.	532	26,874	37,924	19,041	7,062	(e)5,890	(e)6,104

(a) Excludes sidecars. (b) Preliminary—subject to revision. (c) Not available. (d) Includes bodies on complete vehicles imported. (e) Since 20th March, 1958, includes only those bodies imported as complete vehicles.

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 1957-58 and for Australia for a series of years:—

AGRICULTURAL MACHINES AND IMPLEMENTS.
1957-58.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	155	100	47	37	31	..	370
Number of persons employed	2,012	5,299	1,391	1,451	296	..	10,449
Salaries and wages paid £'000	1,838	5,085	1,104	1,261	246	..	9,534
Value of power, fuel, etc., used £'000	92	385	63	89	9	..	638
Value of materials used £'000	2,687	7,742	1,220	1,577	212	..	13,438
Value of production £'000	2,855	8,672	1,731	1,959	382	..	15,599
Total value of output £'000	5,634	16,799	3,014	3,625	603	..	29,675
Value of land and buildings £'000	2,151	2,731	659	737	342	..	6,620
Value of plant and machinery £'000	836	2,649	413	536	103	..	4,537
Horse-power of engines ordinarily in use h.p.	6,872	20,771	5,738	5,220	1,051	..	39,652

AUSTRALIA.

Items.	1938-39.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58.
Number of factories	161	293	308	324	348	370
Number of persons employed	6,563	11,930	12,182	11,938	10,387	10,449
Salaries and wages paid £'000	1,373	9,473	10,206	10,364	9,107	9,534
Value of power, fuel, etc., used £'000	82	637	695	670	581	638
Value of materials used £'000	1,485	12,988	13,572	13,082	11,084	13,438
Value of production £'000	1,836	13,924	14,558	14,650	14,038	15,599
Total value of output £'000	3,403	27,549	28,225	28,402	25,703	29,675
Value of land and buildings £'000	997	3,918	5,038	5,774	6,153	6,620
Value of plant and machinery £'000	911	3,627	4,282	4,673	4,800	4,537
Horse-power of engines ordinarily in use .. h.p.	13,346	39,843	39,858	39,878	40,254	39,652

13. **Wireless and Amplifying Apparatus.**—Prior to 1930-31, statistics of the manufacture of wireless and amplifying apparatus were grouped with those relating to other electrical apparatus, but the new factory classification adopted in that year provided for separate details to be shown for Wireless Apparatus. The industry is confined mainly to New South Wales, Victoria and South Australia. Technical advances and the requirements of the fighting forces led to considerable expansion in the industry during the 1939-45 War and this development has continued, with one or two exceptions in each subsequent year. The introduction of listening services in 1956 gave a further stimulus to the industry. The number of broadcast listeners' licences increased from a third of a million in 1930-31 to nearly 2,264,000 at 30th June, 1959, and this increase reflects the advancement of the industry during that period. At 30th June, 1959, 577,500 television viewers' licences had been issued.

WIRELESS AND AMPLIFYING APPARATUS: AUSTRALIA.

Items.	1938-39.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58.
Number of factories	72	162	175	181	205	211
Number of persons employed	4,828	8,125	8,550	9,171	12,074	16,002
Salaries and wages paid £'000	754	5,751	6,398	7,051	9,145	13,264
Value of power, fuel, etc., used £'000	23	199	205	231	312	479
Value of materials used £'000	1,356	9,782	10,076	10,363	16,801	36,756
Value of production £'000	1,123	7,454	8,624	8,907	11,767	20,725
Total value of output £'000	2,502	17,435	18,905	19,501	28,880	57,960
Value of land and buildings £'000	558	2,011	2,300	3,428	4,752	6,374
Value of plant and machinery £'000	305	1,132	1,242	1,761	3,101	4,250
Horse-power of engines ordinarily in use .. h.p.	2,710	9,274	8,930	9,624	11,658	13,506
Wireless receiving sets made ^(a) No.	163,821	438,978	456,034	458,012	366,282	380,753
Television receiving sets made No.	..	..	..	2,636	121,232	252,430

(a) Including radiograms and car radios.

NOTE.—There were 383,500 wireless receiving sets (including radiograms) and 319,000 television receiving sets made in 1958-59.

14. Cotton.—(i) *General.* Cotton has been grown in Australia since 1860, but never on a very large scale. The average annual quantity of unginned cotton produced was 18 million lb. during the five years ended 1938–39, and slightly over 4½ million lb. in the five years ended 1957–58. 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 1958–59) 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 1953–54 to 1957–58.

COTTON SPINNING AND WEAVING: AUSTRALIA.

Items.	1938–39.	1953–54.	1954–55.	1955–56.	1956–57.	1957–58.
Number of factories	33	96	96	97	91	97
Number of persons employed	3,589	9,470	9,582	9,598	9,754	9,879
Salaries and wages paid £'000	493	6,602	6,845	7,297	7,799	8,268
Value of power, fuel, etc., used £'000	50	690	706	703	890	958
Value of materials used £'000	1,357	18,083	18,505	18,571	19,485	24,025
Value of production £'000	979	10,809	11,343	12,227	14,202	15,622
Total value of output £'000	2,386	29,582	30,554	31,501	34,577	40,605
Value of land and buildings £'000	704	4,104	5,078	5,719	6,478	7,179
Value of plant and machinery £'000	736	4,411	4,355	4,637	5,312	6,702
Horse-power of engines ordinarily in use h.p.	9,128	33,201	34,356	34,657	34,568	35,880

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.

1957–58.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	43	88	4	3	3	5	146
Number of persons employed	6,133	12,055	966	625	(a)	(a)	22,386
Salaries and wages paid £'000	4,455	9,065	545	444	(a)	(a)	16,380
Value of power, fuel, etc., used £'000	402	811	39	44	(a)	(a)	1,463
Value of materials used £'000	10,293	25,218	1,653	1,112	(a)	(a)	46,012
Value of production £'000	7,297	13,432	782	782	(a)	(a)	25,737
Total value of output £'000	17,992	39,461	2,474	1,938	(a)	(a)	73,212
Value of land and buildings £'000	2,592	5,543	194	215	(a)	(a)	9,364
Value of plant and machinery £'000	3,148	6,583	316	276	(a)	(a)	11,641
Horse-power of engines ordinarily in use h.p.	16,436	41,081	3,706	1,614	(a)	(a)	70,433

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

WOOL CARDING, SPINNING AND WEAVING—*continued.*

AUSTRALIA.

Items.	1938-39.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58.
	(a)					
Number of factories	90	164	151	145	143	146
Number of persons employed	19,608	22,619	21,844	21,899	23,217	22,386
Salaries and wages paid £'000	2,888	14,382	13,945	14,409	16,340	16,380
Value of power, fuel, etc., used £'000	393	1,329	1,288	1,345	1,479	1,463
Value of materials used £'000	7,331	45,033	38,938	39,532	49,303	46,012
Value of production £'000	4,791	23,237	21,898	24,082	27,649	25,737
Total value of output £'000	12,515	69,599	62,124	64,959	78,431	73,212
Value of land and buildings £'000	2,380	6,894	7,369	7,713	9,019	9,364
Value of plant and machinery £'000	3,370	9,086	10,053	10,673	10,855	11,641
Horse-power of engines ordinarily in use h.p.	42,944	68,715	66,817	71,752	99,385	70,433
Articles produced—						
Woollen and worsted cloth(b)(c)'000 sq. yds.	31,768	35,027	31,067	30,279	32,782	31,719
Blankets and rugs(b) '000	1,279	1,340	1,673	1,799	1,841	2,032

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

NOTE.—Preliminary production figures for 1958-59 were: Woollen and Worsted Cloth, 27,245,000 square yards; Blankets and Rugs, 1,815,000.

16. Hosiery and Other Knitted Goods.—Details for each State for 1957-58 and for Australia for a series of years are shown in the following table:—

HOSIERY AND OTHER KNITTED GOODS.

1957-58.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	201	427	5	10	10	4	657
Number of persons employed	6,931	15,039	592	107	(a)	(a)	22,939
Salaries and wages paid £'000	4,889	10,658	357	58	(a)	(a)	16,124
Value of power, fuel, etc., used £'000	235	514	10	2	(a)	(a)	770
Value of materials used £'000	11,262	24,541	1,755	82	(a)	(a)	38,002
Value of production £'000	9,639	17,969	682	87	(a)	(a)	28,615
Total value of output £'000	21,136	43,024	2,447	171	(a)	(a)	67,387
Value of land and buildings £'000	3,236	7,320	168	48	(a)	(a)	10,910
Value of plant and machinery £'000	2,442	5,776	235	23	(a)	(a)	8,539
Horse-power of engines ordinarily in use h.p.	6,490	14,205	689	190	(a)	(a)	21,858

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

AUSTRALIA.

Items.	1938-39.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58.
Number of factories	313	645	661	664	665	657
Number of persons employed	18,159	23,937	24,614	23,409	23,492	22,939
Salaries and wages paid £'000	2,332	14,277	15,117	15,117	16,052	16,124
Value of power, fuel, etc., used £'000	133	684	656	687	744	770
Value of materials used £'000	4,284	30,372	31,317	31,822	34,769	38,002
Value of production £'000	3,809	26,155	27,535	27,236	29,035	28,615
Total value of output £'000	8,226	57,211	59,508	59,745	64,548	67,387
Value of land and buildings £'000	1,962	7,253	8,643	9,339	9,939	10,910
Value of plant and machinery £'000	1,931	7,201	7,917	8,159	8,143	8,539
Horse-power of engines ordinarily in use h.p.	8,884	18,478	20,884	20,315	22,911	21,858

The following quantities of yarn were used in these establishments during 1957-58:—Worsted or woollen 8,629,955 lb.; mixtures predominantly woollen or worsted, 1,469,091 lb.; cotton, 10,837,056 lb.; mercerised cotton, 368,103 lb.; rayon, spun, 7,575,573 lb.; rayon filament, 2,916,129 lb.; silk, 17,932 lb.; nylon, spun, 633,711 lb.; nylon filament, 2,936,063 lb.; other yarns, 747,542 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.
1957-58.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	60	36	13	9	5	1	124
Number of person employed ..	1,745	1,995	582	213	(a)	(a)	4,708
Salaries and wages paid .. £'000	1,720	1,847	498	206	(a)	(a)	4,413
Value of power, fuel, etc., used .. £'000	186	201	45	25	(a)	(a)	470
Value of materials used .. £'000	5,080	4,292	1,584	568	(a)	(a)	11,938
Value of production .. £'000	2,296	2,590	813	329	(a)	(a)	6,214
Total value of output .. £'000	7,562	7,083	2,442	922	(a)	(a)	18,622
Value of land and buildings .. £'000	1,048	1,018	109	88	(a)	(a)	2,341
Value of plant and machinery .. £'000	845	829	254	164	(a)	(a)	2,154
Horse-power of engines ordinarily in use h.p.	12,826	12,882	3,565	1,980	(a)	(a)	32,378

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

AUSTRALIA.

Items.	1938-39.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58.
Number of factories	132	142	140	137	133	124
Number of persons employed ..	4,375	5,445	5,393	4,972	4,746	4,708
Salaries and wages paid .. £'000	920	4,464	4,518	4,468	4,383	4,413
Value of power, fuel etc., used .. £'000	88	417	408	415	446	470
Value of materials used .. £'000	2,983	10,477	10,675	11,180	11,738	11,938
Value of production .. £'000	1,522	6,672	6,743	6,082	5,736	6,214
Total value of output .. £'000	4,593	17,566	17,826	17,677	17,920	18,622
Value of land and buildings .. £'000	814	2,055	2,219	2,176	2,314	2,341
Value of plant and machinery .. £'000	524	1,990	2,128	2,231	2,264	2,154
Horse-power of engines ordinarily in use h.p.	12,345	31,182	31,708	31,590	30,799	32,378

(ii) *Materials Used and Articles Produced.* The quantities of materials used and leather produced in tanneries in each State in 1957-58 are shown in the following table:—

TANNERIES: MATERIALS USED AND PRODUCTION, 1957-58.

Particulars.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Materials used—							
Hides (cattle)—							
Yearling .. No.	147,181	49,512	5,582	(a)	(a)	..	207,758
Light Hides(b)	367,004	582,307	208,851	(a)	48,670	(a)	1,235,830
Heavy Hides(c)	410,378	433,584	208,258	114,364	(a)	(a)	1,228,520
Skins—							
Calf	817,394	312,317	(a)	(a)	..	..	1,187,441
Goat	347,904	(a)	(a)	..	..	..	352,633
Sheep including Pelts ..	1,810,460	396,876	(a)	(a)	..	..	2,690,894
Marsupial	36,104	22,347	81,487	(a)	(a)	..	142,411
Bark used—							
Wattle .. tons	1,948	3,915	1,019	(a)	..	(a)	7,134
Mallet and Other ..	(a)	803	(a)	..	263	(a)	1,103
Tanning extract (veg.) used ..	2,336	2,476	1,825	(a)	756	(a)	7,956
Articles produced—							
Leather made—							
Sole lb.	7,040,497	13,082,606	6,399,982	(a)	1,879,629	(a)	29,084,888
Harness, Belting, etc. ..	723,357	358,532	366,354	(a)	(a)	..	2,204,707
Upholstery .. sq. ft.	(a)	622,711	(a)	(a)	(a)	..	900,150
Dressed and Upper from Hides—							
Sold by Measurement—							
Patent .. sq. ft.	(a)	(a)	..	..	..	..	1,186,962
All Other	21,015,250	23,092,040	8,769,158	4,671,654	(a)	(a)	59,192,588
Sold by Weight (all kinds) .. lb.	137,926	(a)	(a)	..	(a)	(a)	185,313
Dressed from skins—							
Calf .. sq. ft.	4,510,469	2,190,447	(a)	(a)	..	..	7,251,549
Goat	1,468,445	(a)	(a)	..	..	..	1,498,077
Sheep	8,658,785	1,499,801	(a)	(a)	..	..	11,765,996
Marsupial	181,666	138,937	349,104	(a)	(a)	..	702,357

(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 1957-58 and for Australia for a series of years are shown in the following table:—

TAILORING AND READY-MADE CLOTHING.
1957-58.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	933	634	116	98	116	17	1,914
Number of persons employed ..	17,389	9,779	2,114	1,308	675	192	31,457
Salaries and wages paid .. £'000	10,717	6,448	1,050	716	306	100	19,337
Value of power, fuel, etc., used ..	£'000 226	143	22	19	10	2	422
Value of materials used .. £'000	20,112	13,113	1,987	849	541	78	36,680
Value of production .. £'000	16,655	10,830	1,974	1,000	518	140	31,117
Total value of output .. £'000	36,993	24,086	3,983	1,868	1,069	220	68,219
Value of land and buildings .. £'000	5,631	3,706	613	612	372	80	11,014
Value of plant and machinery .. £'000	1,549	1,078	140	94	41	11	2,913
Horse-power of engines ordinarily in use h.p.	5,214	3,274	564	413	164	42	9,671

AUSTRALIA.

Items.	1938-39.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58.
Number of factories	1,177	1,963	1,985	1,952	1,944	1,914
Number of persons employed ..	26,499	33,264	33,384	32,587	31,920	31,457
Salaries and wages paid .. £'000	3,168	17,215	17,968	18,261	18,760	19,337
Value of power, fuel, etc., used .. £'000	72	380	390	393	416	422
Value of materials used .. £'000	4,947	33,598	34,237	35,941	35,883	36,680
Value of production .. £'000	4,812	26,076	28,031	28,940	29,811	31,117
Total value of output .. £'000	9,831	60,054	62,658	65,274	66,110	68,219
Value of land and buildings .. £'000	3,176	8,251	8,917	9,484	10,137	11,014
Value of plant and machinery .. £'000	356	2,523	2,663	2,746	2,861	2,913
Horse-power of engines ordinarily in use h.p.	2,607	9,339	9,198	9,017	9,133	9,671

19. Dressmaking and Millinery Establishments.—Particulars of dressmaking and millinery establishments in Australia for the years 1938-39 and 1953-54 to 1957-58 are shown in the following table:—

DRESSMAKING AND MILLINERY: AUSTRALIA.

Items.	1938-39.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58.
Number of factories	869	1,433	1,411	1,410	1,311	1,295
Number of persons employed ..	16,398	19,197	18,014	17,675	16,265	15,668
Salaries and wages paid .. £'000	1,653	9,230	8,975	9,063	8,783	8,859
Value of power, fuel, etc., used .. £'000	33	187	177	177	185	184
Value of materials used .. £'000	2,610	13,634	13,109	13,029	12,447	11,999
Value of production .. £'000	2,592	14,392	14,501	14,585	14,244	14,220
Total value of output .. £'000	5,235	28,213	27,786	27,791	26,876	26,403
Value of land and buildings .. £'000	2,052	5,033	5,256	5,788	5,966	6,693
Value of plant and machinery .. £'000	189	1,108	1,123	1,174	1,152	1,246
Horse-power of engines ordinarily in use h.p.	1,732	4,858	4,740	4,697	4,635	4,558

20. Shirts, Collars and Underclothing.—Particulars of this industry are shown below for each State for 1957-58 and for Australia for a series of years:—

SHIRTS, COLLARS AND UNDERCLOTHING.
1957-58.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	156	170	19	23	14	2	384
Number of persons employed ..	4,639	6,349	1,070	407	(a)	(a)	13,038
Salaries and wages paid .. £'000	2,820	3,912	506	205	(a)	(a)	7,718
Value of power, fuel, etc., used .. £'000	55	61	8	4	(a)	(a)	134
Value of materials used .. £'000	6,966	8,206	709	271	(a)	(a)	16,595
Value of production .. £'000	4,388	6,188	670	286	(a)	(a)	11,945
Total value of output .. £'000	11,409	14,455	1,387	561	(a)	(a)	28,674
Value of land and buildings .. £'000	1,449	1,722	180	96	(a)	(a)	3,587
Value of plant and machinery .. £'000	519	579	69	20	(a)	(a)	1,233
Horse-power of engines ordinarily in use h.p.	1,768	2,689	230	155	(a)	(a)	5,064

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

SHIRTS, COLLARS AND UNDERCLOTHING—*continued.*

AUSTRALIA.

Items.	1938-39.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58
Number of factories	283	379	392	404	397	384
Number of persons employed	11,081	11,156	12,745	12,686	13,157	13,038
Salaries and wages paid £'000	1,143	5,684	6,702	6,957	7,640	7,718
Value of power, fuel, etc., used £'000	23	92	106	119	129	134
Value of materials used £'000	2,651	12,077	15,020	16,112	16,285	16,595
Value of production £'000	1,761	9,377	10,927	11,328	12,051	11,945
Total value of output £'000	4,435	21,546	26,053	27,559	28,465	28,674
Value of land and buildings £'000	946	2,417	2,719	2,999	3,543	3,587
Value of plant and machinery £'000	231	905	1,053	1,146	1,229	1,233
Horse-power of engines ordinarily in use h.p.	1,874	4,320	4,468	4,881	5,177	5,064

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 212.

BOOTS AND SHOES.

1957-58.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.(a)	Aust.
Number of factories	175	221	28	18	11	33	486
Number of persons employed	6,777	11,092	1,155	1,162	503	150	20,839
Salaries and wages paid £'000	4,989	8,005	766	902	335	93	15,090
Value of power, fuel, etc., used £'000	88	142	12	15	7	2	266
Value of materials used £'000	7,132	12,641	1,195	1,352	403	131	22,854
Value of production £'000	7,231	11,936	989	1,240	482	141	22,019
Total value of output £'000	14,451	24,719	2,196	2,607	892	274	45,139
Value of land and buildings £'000	1,575	2,276	201	271	146	98	4,567
Value of plant and machinery £'000	824	2,281	313	406	120	35	3,979
Horse-power of engines ordinarily in use h.p.	4,773	9,202	972	1,009	563	144	16,663

AUSTRALIA.

Items.	1945-46.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58.
Number of factories	383	520	516	494	474	486
Number of persons employed	18,264	22,953	22,323	21,557	21,432	20,839
Salaries and wages paid £'000	4,408	14,215	14,241	14,310	15,234	15,090
Value of power, fuel, etc., used £'000	75	225	227	233	257	266
Value of materials used £'000	7,520	20,508	21,020	21,812	22,221	22,854
Value of production £'000	6,472	19,444	19,640	20,480	21,222	22,019
Total value of output £'000	14,067	40,177	40,887	42,525	43,700	45,139
Value of land and buildings £'000	1,518	3,491	3,733	3,846	4,267	4,567
Value of plant and machinery £'000	1,222	3,152	3,380	3,646	3,715	3,979
Horse-power of engines ordinarily in use h.p.	9,678	16,679	17,488	16,485	16,496	16,663

(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 1957-58 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, 1957-58.

Particulars.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Boots, shoes and sandals pairs	7,472,914	10,474,167	1,220,623	1,609,502	(a)	(a)	21,395,431
£	13,329,785	20,435,904	1,944,052	2,554,619	(a)	(a)	39,149,005
Slippers .. pairs	2,779,596	5,725,161	300,169	61,602	286,176	..	9,152,704
£	1,777,501	2,934,625	199,932	41,312	224,639	..	5,178,009

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

Preliminary figures for 1958-59 were—Boots, Shoes and Sandals, 24,024,000 pairs; and Slippers, 8,481,000 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 1957-58 and for Australia for a series of years:—

FLOUR-MILLING.

1957-58.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	47	34	11	21	19	10	142
Number of persons employed	1,409	1,314	542	428	455	136	4,284
Salaries and wages paid £'000	1,495	1,308	441	414	395	137	4,190
Value of power, fuel, etc., used £'000	311	232	82	83	104	15	827
Value of materials used £'000	17,553	18,509	5,672	5,103	5,659	1,163	53,659
Value of production £'000	4,198	3,032	987	692	797	228	9,934
Total value of output £'000	22,062	21,773	6,741	5,878	6,560	1,406	64,420
Value of land and buildings £'000	2,474	1,882	786	369	731	80	6,322
Value of plant and machinery £'000	2,479	1,482	796	527	599	79	5,962
Horse-power of engines ordinarily in use h.p.	17,808	15,235	4,944	3,729	5,537	1,196	48,449

AUSTRALIA.

Items.	1938-39.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58.
Number of factories	172	157	151	151	143	142
Number of persons employed	3,783	4,602	4,528	4,548	4,729	4,284
Salaries and wages paid £'000	896	3,847	3,851	4,073	4,375	4,190
Value of power, fuel, etc., used £'000	231	847	805	835	946	827
Value of materials used £'000	10,573	53,946	54,436	54,498	59,094	53,659
Value of production £'000	2,091	8,134	7,311	7,575	9,608	9,934
Total value of output £'000	12,895	62,927	62,552	62,908	69,648	64,420
Value of land and buildings £'000	2,091	4,260	4,533	5,211	5,686	6,322
Value of plant and machinery £'000	1,814	4,921	5,060	5,405	5,690	5,962
Horse-power of engines ordinarily in use h.p.	27,795	52,545	46,566	47,786	48,103	48,449

(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 1953-54 to 1958-59 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
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 ..	416,490	484,993	143,613	138,537	163,347	28,739	1,375,719
1958-59 (b) ..	440,392	436,764	151,711	136,844	164,475	29,141	1,359,327

(a) Includes wheatmeal for baking and sharps.

(b) Preliminary, subject to revision.

In addition, 523,000 tons (2,000 lb. per ton) of bran and pollard were produced in 1957-58 and 500,000 tons in 1958-59. The total quantity of wheat ground in flour mills was 62,300,000 bushels in 1957-58 and 62,254,000 bushels in 1958-59.

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).

1957–58.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.(a)	Aust.(a)
Number of factories	1,685	1,075	505	272	295	154	3,986
Number of persons employed ..	8,005	5,472	2,437	1,633	1,040	1,736	20,323
Salaries and wages paid .. £'000	5,235	3,605	1,315	1,063	583	1,309	13,110
Value of power, fuel, etc., used £'000	1,032	668	254	191	126	169	2,440
Value of materials used .. £'000	17,229	10,884	4,785	3,515	2,240	4,823	43,476
Value of production .. £'000	12,271	7,845	3,182	2,358	1,489	2,671	29,816
Total value of output .. £'000	30,532	19,397	8,221	6,064	3,855	7,663	75,732
Value of land and buildings .. £'000	8,736	5,923	1,558	1,518	928	1,542	20,205
Value of plant and machinery .. £'000	4,598	3,470	1,012	928	677	1,112	11,797
Horse-power of engines ordinarily in use h.p.	10,967	8,001	3,241	3,139	2,011	4,803	32,162

AUSTRALIA.(a)

Items.	1938–39.	1953–54.	1954–55.	1955–56.	1956–57.	1957–58.
Number of factories	1,958	3,687	3,800	3,878	3,813	3,986
Number of persons employed ..	11,715	18,758	19,125	19,543	19,964	20,323
Salaries and wages paid £'000	1,993	9,954	10,648	11,611	12,663	13,110
Value of power, fuel, etc., used £'000	306	1,805	1,902	2,090	2,308	2,440
Value of materials used £'000	6,651	32,829	35,899	37,820	40,704	43,476
Value of production £'000	4,509	23,107	23,582	26,418	29,706	29,816
Total value of output £'000	11,466	57,741	61,383	66,328	72,718	75,732
Value of land and buildings £'000	4,960	13,617	14,352	15,865	17,991	20,205
Value of plant and machinery £'000	1,478	7,158	8,373	9,461	10,590	11,797
Horse-power of engines ordinarily in use h.p.	10,855	26,462	27,815	29,535	30,204	32,162

(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 1953-54 to 1957-58:—

SUGAR-MILLS.

Items.	1938-39.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58.
NEW SOUTH WALES.						
Number of factories ..	3	3	3	3	3	3
Number of persons employed..	212	156	187	152	153	170
Cane crushed .. tons	337,038	263,249	222,313	284,539	294,087	303,086
Raw sugar produced (94 net titre) tons	45,106	34,004	26,301	36,028	35,918	36,854
QUEENSLAND.						
Number of factories ..	33	31	31	31	31	31
Number of persons employed..	4,419	7,358	7,272	7,044	7,099	6,547
Cane crushed .. tons	5,432,193	8,751,063	9,864,304	8,616,163	8,978,081	8,945,617
Raw sugar produced (94 net titre) tons	775,064	1,220,383	1,301,245	1,135,685	1,171,879	1,256,271
Molasses—						
Sold to distilleries.. '000 gals	8,276	23,323	23,167	22,772	24,094	20,558
Used as fodder .. " "	4,237	5,486	5,753	5,285	5,536	4,861
Used as manure .. " "	3,293	11,466	10,501	10,637	9,177	10,880
Run to waste .. " "	499	168	233	185	51	285
Burnt as fuel .. " "	3,749	183	1,079	1,519	1,405	284
Sold or used for other purposes '000 gals	232	516	473	588	523	508
Total molasses disposed of '000 gals	20,286	41,142	41,206	40,986	40,786	37,376

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 1957-58, 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 521,920 tons for a yield of 493,093 tons of refined sugar.

26. *Confectionery.*—Particulars for 1957-58 for each State and for Australia for a series of years are shown hereunder:—

CONFECTIONERY.
1957-58.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.(b)
Number of factories ..	94	83	18	15	7	(a)	217
Number of persons employed ..	2,905	3,042	196	349	297	(a)	6,789
Salaries and wages paid .. £'000	2,250	2,254	95	198	185	(a)	4,982
Value of power, fuel, etc., used £'000	258	223	10	22	16	(a)	529
Value of materials used .. £'000	7,798	6,856	364	531	503	(a)	16,052
Value of production .. £'000	5,242	3,753	156	292	328	(a)	9,771
Total value of output .. £'000	13,298	10,832	530	845	847	(a)	26,352
Value of land and buildings £'000	2,135	1,795	90	236	95	(a)	4,351
Value of plant and machinery £'000	1,805	1,802	73	131	80	(a)	3,891
Horse-power of engines ordinarily in use h.p.	13,496	13,664	318	1,358	420	(a)	29,256

AUSTRALIA.(b)

Items.	1938-39.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58.
Number of factories	148	249	238	226	213
Number of persons employed	7,256	6,976	7,069	7,183	6,818
Salaries and wages paid .. £'000	..	1,041	4,382	4,516	4,805	4,866
Value of power, fuel, etc., used .. £'000	..	107	444	447	473	509
Value of materials used .. £'000	..	3,102	13,857	14,917	15,583	15,391
Value of production .. £'000	..	2,418	8,307	8,320	8,932	9,885
Total value of output .. £'000	..	5,627	22,608	23,684	24,988	25,785
Value of land and buildings .. £'000	..	1,423	2,650	2,964	3,324	3,239
Value of plant and machinery .. £'000	..	1,364	3,039	3,368	3,612	3,582
Horse-power of engines ordinarily in use h.p.	..	16,154	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 1957–58 and for Australia for a series of years:—

JAM, FRUIT AND VEGETABLE CANNING, PICKLES, SAUCES, VINEGAR.
1957–58.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	58	63	18	18	9	21	187
Number of persons employed ..	2,684	4,903	1,295	1,172	124	1,229	11,407
Salaries and wages paid .. £'000	2,214	4,462	1,054	911	83	1,028	9,752
Value of power, fuel, etc., used £'000	260	472	73	77	7	89	978
Value of materials used .. £'000	8,342	22,054	4,967	2,729	295	2,772	41,159
Value of production .. £'000	4,459	10,407	1,713	1,430	189	1,555	19,753
Total value of output .. £'000	13,061	32,933	6,753	4,236	491	4,416	61,890
Value of land and buildings £'000	2,302	6,086	745	482	148	858	10,621
Value of plant and machinery £'000	1,626	5,617	426	656	64	886	9,275
Horse-power of engines ordinarily in use h.p.	9,852	37,012	2,821	2,028	349	3,762	55,824

AUSTRALIA.

Items.	1938–39.	1953–54.	1954–55.	1955–56.	1956–57.	1957–58.
Number of factories	123	197	184	183	182	187
Number of persons employed ..	6,476	11,101	11,061	11,578	12,019	11,407
Salaries and wages paid .. £'000	1,149	7,870	7,945	8,924	9,698	9,752
Value of power, fuel, etc., used .. £'000	97	660	699	802	957	978
Value of materials used £'000	4,800	28,875	29,708	32,323	39,874	41,159
Value of production £'000	2,334	14,992	15,312	16,103	18,792	19,753
Total value of output £'000	7,231	44,527	45,719	49,228	59,623	61,890
Value of land and buildings .. £'000	1,382	6,137	6,193	8,874	9,790	10,621
Value of plant and machinery .. £'000	721	5,404	5,496	8,083	8,752	9,275
Horse-power of engines ordinarily in use h.p.	7,873	31,721	32,661	38,508	45,820	55,824

(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 107.8 million lb. in 1957–58. Preliminary figures for 1958–59 show production as being 75.0 million lb.

Production of preserved fruit in 1957–58 was 349.4 million lb., the highest on record, the previous highest level being 338.6 million lb. in 1953–54. Preliminary figures for 1958–59 show production as being 317.1 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 1957–58 amounted to 87.0 million lb. Preliminary figures for 1958–59 show production as being 66.6 million lb.

The following table shows the total quantity of jams, pickles, sauces and other items manufactured in each State in 1957–58:—

JAMS, PRESERVED FRUIT AND VEGETABLES, PICKLES AND SAUCES: 1957–58.

Particulars.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Jams '000 lb.	22,484	54,524	10,775	(a)	(a)	(a)	107,773
Fruit, preserved	42,874	190,776	56,976	37,405	(a)	(a)	349,411
Fruit Pulp(b) cwt.	31,891	160,179	6,076	(a)	6,347	(a)	293,969
Fruit Juices, natural .. '000 gals.	384	150	2,390	344	(a)	(a)	3,670
Vegetables, preserved .. '000 lb.	31,557	35,985	273	1,634	851	16,744	87,044
Pickled Vegetables	4,791	951	65	1,224	324	(a)	7,355
Tomato Pulp(b) cwt.	47,510	406,940	(a)	(a)	10,560	(a)	501,443
Tomato Paste, Puree, etc., '000 pints	321	1,703	(a)	(a)	(a)	(a)	2,096
Tomato Juice '000 gals.	170	519	(a)	661	(a)	(a)	1,408
Pickles '000 pints	1,564	1,949	(a)	(a)	(a)	(a)	5,503
Chutney " "	525	(a)	(a)	(a)	(a)	(a)	1,332
Sauces " "	11,638	12,695	1,507	2,303	(a)	(a)	29,328
Soup (canned) " "	3,965	22,970	(a)	(a)	(a)	(a)	27,346
Soup, Dry Mix '000 lb.	(a)	(a)	(a)	(a)	(a)	(a)	3,606

(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 1957–58 and for Australia for a series of years:—

BACON-CURING.

1957–58.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	29	16	9	14	4	8	80
Number of person employed ..	712	841	1,335	480	268	109	3,745
Salaries and wages paid .. £'000	652	756	1,102	473	231	97	3,311
Value of power, fuel, etc., used £'000	84	99	105	66	39	10	403
Value of materials used .. £'000	4,844	4,593	7,025	2,388	2,567	730	22,147
Value of production £'000	1,430	1,904	2,257	627	398	182	6,798
Total value of output £'000	6,358	6,596	9,387	3,081	3,004	922	29,348
Value of land and buildings £'000	577	640	793	389	124	144	2,667
Value of plant and machinery £'000	315	366	570	295	69	39	1,654
Horse-power of engines ordinarily in use h.p.	2,271	3,281	5,321	2,184	1,133	557	14,747

AUSTRALIA.

Items.	1938–39.	1953–54.	1954–55.	1955–56.	1956–57.	1957–58.
Number of factories	76	85	84	82	81	80
Number of persons employed ..	2,047	2,975	3,201	3,414	3,472	3,745
Salaries and wages paid .. £'000	480	2,270	2,517	2,754	2,956	3,311
Value of power, fuel, etc., used .. £'000	77	298	322	339	362	403
Value of materials used £'000	3,768	19,448	18,318	20,814	22,373	22,147
Value of production £'000	865	4,410	5,715	4,997	5,273	6,798
Total value of output £'000	4,710	24,156	24,355	26,150	28,008	29,348
Value of land and buildings .. £'000	750	1,737	1,956	2,308	2,452	2,667
Value of plant and machinery .. £'000	357	955	1,100	1,329	1,512	1,654
Horse-power of engines ordinarily in use h.p.	9,389	11,685	11,791	13,019	13,472	14,747

(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 1957–58 are shown in the following table:—

BACON-CURING FACTORIES: PIGS CURED AND PRODUCTION, 1957-58.

Particulars.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Pigs killed for bacon and ham—							
For curing on own account	165,640	168,793	232,548	82,223	122,243	31,709	802,621
For curing on commission	12,828	3,711	2,384	1,121			
Pork and green bacon used for—							
Curing on own account			(a)	1,037	(a)	..	10,371
Curing on commission	5,259	2,927	(a)	(a)	(a)	(a)	5,199
'000 lb.	4,975	197	(a)	(a)	(a)	(a)	320
'000 lb.	46	37	173	20	30	14	
Sugar used ton							
Finished bacon and ham made (b)							
On own account '000 lb.	17,422	14,403	18,372	6,538	6,581	1,758	65,074
On commission	5,656	556	220	113	(a)	(a)	6,597
Green bacon and ham ..	971	2,048	1,092	462	752	374	5,699
Lard produced	3,972	6,313	25,774	4,776	10,064	896	51,795

(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 1957-58 and for Australia for a series of years:—

BUTTER, CHEESE AND CONDENSED AND DRIED MILK.
1957-58.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	74	131	81	41	18	21	366
Number of persons employed ..	2,447	5,417	1,574	756	302	374	10,870
Salaries and wages paid	£'000 2,199	5,345	1,257	594	254	346	9,995
Value of power, fuel, etc., used ..	£'000 643	1,532	266	113	65	73	2,692
Value of materials used	£'000 14,886	50,558	16,844	4,664	3,058	4,556	94,566
Value of production	£'000 3,210	11,617	2,458	906	467	903	19,561
Total value of output	£'000 18,739	63,707	19,568	5,683	3,590	5,532	116,819
Value of land and buildings ..	£'000 3,265	6,233	1,750	692	247	371	12,558
Value of plant and machinery ..	£'000 3,666	7,525	2,590	732	368	373	15,254
Horse-power of engines ordinarily in use h.p.	30,874	41,445	25,027	7,458	2,345	2,498	109,647

AUSTRALIA.

Items.	1938-39.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58.
Number of factories	523	380	379	375	371	366
Number of persons employed ..	6,851	10,580	10,567	11,119	11,189	10,870
Salaries and wages paid	£'000 1,570	8,416	8,680	9,568	10,068	9,995
Value of power, fuel, etc. used ..	£'000 390	2,396	2,423	2,741	2,797	2,692
Value of materials used	£'000 29,162	94,020	100,706	106,883	101,517	94,566
Value of production	£'000 3,543	15,914	15,394	18,893	19,265	19,561
Total value of output	£'000 33,095	112,330	118,523	128,517	123,579	116,819
Value of land and buildings ..	£'000 2,880	9,365	10,037	11,188	11,985	12,558
Value of plant and machinery ..	£'000 3,067	12,083	12,553	13,923	14,631	15,254
Horse-power of engines ordinarily in use .. h.p.	45,059	94,863	98,442	102,182	108,157	109,647

(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 1957-58. These details are restricted to factory production and therefore exclude farm output.

BUTTER, CHEESE AND CONDENSED MILK, ETC., FACTORIES: PRODUCTION.
1957-58.

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

Whole Milk used in manufacture of							
Butter '000 gal.	139,155	401,722	145,097	29,886	30,786	55,345	801,991
Cheese	8,943	31,453	11,847	23,012	2,180	724	78,159
Condensed, Dried and other Milk Products '000 gal.	14,896	62,370	5,267	4	2,722	2,914	88,173
Sugar ton	996	15,172	(a)	..	(a)	(a)	18,005

PRODUCTION.

(Tons.)

Butter	29,939	86,236	32,280	7,032	6,807	10,624	172,918
Cheese (Green Weight)	4,042	14,840	5,175	10,495	1,017	326	35,895
Condensed Milk (Sweetened and Unsweetened)	(a)	43,408	..	..	(a)	..	47,140
Concentrated—							
Whole Milk	(a)	(a)	(a)	..	(a)	(a)	12,439
Skim Milk	(a)	(a)	(a)	..	(a)	..	6,285
Powdered Full Cream Milk—							
Spray	(a)	11,095	(a)	(a)	..	..	16,876
Roller							
Infants' and Invalids' Food (including Malted Milk and Milk Sugar (Lactose))	(a)	(a)	..	..	..	(a)	13,977
Powdered Skim Milk—							
Spray	5,613	17,519	(a)	(a)	(a)	..	20,175
Roller							
Buttermilk and Whey Powder ..	820	3,448	821	(a)	(a)	(a)	5,668
Casein	641	10,009	(a)	..	(a)	..	10,663
Ice Cream Mix—							
Powder	(a)	(a)	(a)	(a)	(a)	..	581
Liquid	(a)	(a)	(a)	..	..	..	5,022
Processed Cheese, Cheese Paste and Cheese Spreads (b)	(a)	(a)	(a)	..	..	..	14,407

(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.

1957-58.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	11	15	29	20	35	4	114
Number of persons employed ..	540	919	5,879	325	1,174	41	8,878
Salaries and wages paid .. £'000	464	919	5,908	240	1,115	44	8,690
Value of power, fuel, etc., used £'000	88	140	726	32	135	7	1,128
Value of materials used .. £'000	2,376	5,109	33,773	1,525	2,848	64	45,695
Value of production .. £'000	1,054	2,088	8,487	411	1,624	59	13,723
Total value of output .. £'000	3,518	7,337	42,986	1,968	4,607	130	60,546
Value of land and buildings £'000	274	894	3,356	221	1,888	77	6,710
Value of plant and machinery £'000	218	971	2,347	154	879	25	4,594
Horse-power of engines ordinarily in use h.p.	1,480	4,045	22,469	905	7,710	347	36,956

AUSTRALIA.

Items.	1938-39.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58.
Number of factories	32	106	114	116	113	114
Number of persons employed ..	4,093	9,113	9,432	9,550	8,866	8,878
Salaries and wages paid .. £'000	1,180	7,395	8,327	8,704	8,366	8,690
Value of power, fuel, etc. used .. £'000	134	1,015	1,110	1,119	1,099	1,128
Value of materials used .. £'000	6,351	46,671	46,642	46,359	45,483	45,695
Value of production .. £'000	1,601	11,374	12,182	14,345	14,385	13,723
Total value of output .. £'000	8,086	59,060	59,934	61,823	60,967	60,546
Value of land and buildings .. £'000	1,966	4,500	5,403	5,934	6,241	6,710
Value of plant and machinery .. £'000	1,325	2,826	3,409	4,118	4,147	4,594
Horse-power of engines ordinarily in use h.p.	13,385	31,810	35,600	33,086	36,517	36,956

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 1957-58 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 directly concerned with the brewing of beer, although associated with it. These extraneous activities include cooperage, malt wort, aerated waters, etc.

BREWERIES.

1957-58.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	6	6	6	3	3	2	26
Number of persons employed ..	1,911	1,872	878	(a)	(a)	(a)	5,909
Salaries and wages paid .. £'000	2,070	2,020	783	(a)	(a)	(a)	6,228
Value of power, fuel, etc. used £'000	548	360	228	(a)	(a)	(a)	1,479
Value of materials used .. £'000	91	7,292	2,226	(a)	(a)	(a)	22,146
Value of production .. £'000	6	4,114	2,581	(a)	(a)	(a)	17,271
Total value of output(b) .. £'000	15,763	11,766	5,035	(a)	(a)	(a)	40,896
Value of land and buildings £'000	3,745	2,978	2,956	(a)	(a)	(a)	11,797
Value of plant and machinery £'000	5,070	4,360	2,358	(a)	(a)	(a)	15,510
Horse-power of engines ordinarily in use h.p.	15,461	11,765	8,455	(a)	(a)	(a)	44,869

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

(b) Exclud

BREWERIES—continued.

AUSTRALIA.

Items.	1938-39.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58.
Number of factories	34	31	30	28	27	26
Number of persons employed	3,698	6,193	6,791	6,835	6,107	5,909
Salaries and wages paid	£'000 1,215	5,325	6,272	6,588	6,196	6,228
Value of power, fuel, etc., used	£'000 251	1,366	1,369	1,396	1,509	1,479
Value of materials used	£'000 3,407	19,975	20,810	21,437	21,238	22,146
Value of production	£'000 5,372	13,048	14,855	15,224	16,266	17,271
Total value of output(a)	£'000 9,030	34,389	37,034	39,057	39,013	40,896
Value of land and buildings	£'000 2,801	7,256	8,307	10,099	11,069	11,797
Value of plant and machinery	£'000 2,737	7,681	10,295	12,917	14,863	15,510
Horse-power of engines ordinarily in use h.p.	23,231	38,803	42,359	44,908	45,268	44,869

(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 1958-59 amounted to over 228 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 22.1 gallons by 1958-59.

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 1957-58:—

BREWERIES: MATERIALS USED AND PRODUCTION, 1957-58.

Particulars.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
MATERIALS USED.							
Malt '000 bus.	2,562	2,038	787	(a)	(a)	(a)	6,640
Hops '000 lb.	1,962	(a)	527	(a)	(a)	(a)	4,409
Sugar ton	20,454	(a)	4,776	(a)	(a)	(a)	43,738

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

Quantity .. '000 gals.	94,199	66,752	(a)	(a)	(a)	(a)	226,449
Value (b) £'000	15,602	11,616	(a)	(a)	(a)	(a)	40,308

(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 1957-58 and for Australia for a series of years:—

WINERIES AND DISTILLERIES.

1957-58.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	31	28	5	74	22	..	160
Number of persons employed	224	361	165	1,245	71	..	2,066
Salaries and wages paid	£'000 222	315	150	1,073	40	..	1,800
Value of power, fuel, etc., used	£'000 115	105	62	141	3	..	426
Value of materials used	£'000 1,461	1,048	393	4,391	155	..	7,448
Value of production	£'000 638	1,488	314	2,028	101	..	4,569
Total value of output	£'000 2,214	2,641	769	6,560	259	..	12,443
Value of land and buildings	£'000 423	360	115	1,490	70	..	2,458
Value of plant and machinery	£'000 505	292	366	1,112	64	..	2,339
Horse-power of engines ordinarily in use	h.p. 1,328	2,207	777	6,873	363	..	11,548

WINERIES AND DISTILLERIES—*continued.*

AUSTRALIA.

Items.	1938-39.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58.
Number of factories	135	164	158	155	157	160
Number of persons employed	1,133	1,981	2,022	1,908	2,027	2,066
Salaries and wages paid £'000	246	1,475	1,506	1,532	1,699	1,800
Value of power, fuel, etc., used £'000	58	365	387	368	423	426
Value of materials used £'000	1,421	5,721	4,885	5,074	6,461	7,448
Value of production £'000	811	3,254	2,846	2,890	3,704	4,569
Total value of output £'000	2,290	9,340	8,118	8,332	10,588	12,443
Value of land and buildings £'000	1,002	2,284	2,312	2,254	2,363	2,458
Value of plant and machinery £'000	916	2,108	2,170	2,099	2,348	2,339
Horse-power of engines ordinarily in use h.p.	4,396	11,275	11,054	11,159	11,412	11,548

33. Tobacco, Cigars and Cigarettes.—Particulars of establishments in which the manufacture of tobacco, cigars or cigarettes was carried on during 1957-58 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.

1957-58.

Items.	N.S.W.	Vic.	Q'land.	W. Aust.	Aust.
Number of factories	11	10	4	2	27
Number of persons employed	2,723	1,949	(a)	(a)	4,754
Salaries and wages paid £'000	2,461	1,696	(a)	(a)	4,203
Value of power, fuel, etc., used £'000	72	70	(a)	(a)	145
Value of materials used £'000	20,890	14,426	(a)	(a)	35,408
Value of production £'000	6,482	4,650	(a)	(a)	11,177
Total value of output(b) £'000	27,444	19,146	(a)	(a)	46,730
Value of land and buildings £'000	736	1,999	(a)	(a)	2,962
Value of plant and machinery £'000	1,899	2,088	(a)	(a)	4,156
Horse-power of engines ordinarily in use h.p.	6,821	3,343	(a)	(a)	10,586

AUSTRALIA.

Items.	1938-39.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58.
Number of factories	30	36	34	33	29	27
Number of persons employed	5,544	4,757	4,707	4,622	4,630	4,754
Salaries and wages paid £'000	1,096	3,417	3,516	3,728	4,038	4,203
Value of power, fuel, etc., used £'000	34	151	158	128	127	145
Value of materials used £'000	7,081	26,835	28,825	31,227	33,535	35,408
Value of production £'000	2,685	8,341	9,745	9,244	10,999	11,177
Total value of output(b) £'000	9,800	35,327	38,728	40,599	44,661	46,730
Value of land and buildings £'000	1,042	1,822	1,504	1,867	1,764	2,962
Value of plant and machinery £'000	943	1,917	2,190	2,784	3,059	4,156
Horse-power of engines ordinarily in use h.p.	4,610	6,919	8,466	10,778	10,990	10,586
Leaf used—						
Australian (stemmed) '000 lb.	4,489	4,866	4,482	5,204	5,299	7,155
Imported (stemmed) '000 lb.	16,011	33,076	36,053	37,399	40,860	38,372
Tobacco made '000 lb.	16,305	23,400	21,466	18,836	18,917	18,192
Cigars made '000 lb.	238	143	151	132	114	119
Cigarettes made '000 lb.	6,731	18,303	22,859	27,162	30,513	32,748

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

(b) Excludes

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 1957-58 usage was 7.2 million lb. For further information see Chapter XXII.—Agricultural Production.

Imports of tobacco during 1957-58 comprised: manufactured tobacco, 402,388 lb., cigars, 86,165 lb., cigarettes, 370,842 lb., unmanufactured tobacco, 43,029,219 lb.; and in 1958-59 were 367,441 lb., 91,394 lb., 391,203 lb. and 38,671,462 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.

1957-58.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	1,043	592	619	90	247	319	2,910
Number of persons employed ..	10,709	7,078	8,456	2,306	4,204	2,432	35,185
Salaries and wages paid .. £'000	8,647	6,112	6,138	1,948	3,193	1,894	27,932
Value of power, fuel, etc., used .. £'000	695	469	393	105	286	195	2,143
Value of materials used .. £'000	24,381	15,586	12,789	6,668	5,787	4,433	69,644
Value of production .. £'000	15,937	11,693	10,229	3,425	5,708	3,254	50,246
Total value of output .. £'000	41,013	27,748	23,411	10,198	11,781	7,882	122,033
Value of land and buildings .. £'000	5,012	3,117	1,889	2,275	808	823	13,924
Value of plant and machinery .. £'000	4,931	3,278	3,481	2,514	1,909	1,858	17,971
Horse-power of engines ordinarily in use h.p.	117,200	80,750	85,301	23,803	39,452	33,697	380,203

AUSTRALIA.

Items.	1938-39.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58.
Number of factories	1,639	3,117	3,033	3,025	3,000	2,910
Number of persons employed ..	19,056	35,448	36,631	37,102	35,835	35,185
Salaries and wages paid £'000	3,626	23,536	25,530	27,086	27,563	27,932
Value of power, fuel, etc., used .. £'000	225	1,639	1,805	1,938	2,056	2,143
Value of materials used £'000	8,441	53,908	61,073	65,618	66,817	69,644
Value of production £'000	5,762	39,799	45,319	47,042	47,928	50,246
Total value of output £'000	14,428	95,346	108,197	114,598	116,801	122,033
Value of land and buildings £'000	2,029	8,775	10,321	11,136	12,079	13,924
Value of plant and machinery £'000	2,777	12,504	14,896	16,201	17,086	17,971
Horse-power of engines ordinarily in use .. h.p.	89,843	336,951	359,786	371,003	378,902	380,203

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 1958-59 had risen to 1,480 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 1957-58:—

CABINET AND FURNITURE MAKING AND UPHOLSTERY, 1957-58.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	536	542	236	120	150	60	1,644
Number of persons employed ..	6,033	4,743	2,252	1,506	1,009	386	15,929
Salaries and wages paid .. £'000	5,183	3,807	1,459	1,110	654	249	12,462
Value of power, fuel, etc., used .. £'000	127	94	37	30	18	5	311
Value of materials used £'000	9,067	5,868	2,591	1,765	1,209	360	20,860
Value of production £'000	8,287	6,424	2,273	1,685	1,070	424	20,163
Total value of output £'000	17,481	12,386	4,901	3,480	2,297	789	41,334
Value of land and buildings .. £'000	3,393	3,201	1,090	613	572	200	9,069
Value of plant and machinery .. £'000	864	811	348	267	168	57	2,515
Horse-power of engines ordinarily in use h.p.	14,792	14,431	7,472	5,112	3,363	1,277	46,447

36. **Printing Works.**—Printing and bookbinding rank high in importance among the industries of Australia and in 1957–58 afforded employment for 40,303 employees, and paid £36,096,000 in salaries and wages while the value of output amounted to £119,993,000. The first table below gives particulars of establishments engaged in general printing in each State for 1957–58. 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:—

GOVERNMENT AND GENERAL PRINTING WORKS, 1957-58.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	577	552	113	85	79	25	1,431
Number of persons employed ..	10,412	9,531	2,360	1,651	1,394	568	25,916
Salaries and wages paid .. £'000	9,258	8,409	1,660	1,297	1,009	466	22,099
Value of power, fuel, etc., used £'000	303	249	45	32	32	14	675
Value of materials used .. £'000	13,426	11,461	1,849	1,456	1,190	427	29,809
Value of production .. £'000	15,983	14,590	2,770	2,133	1,870	722	38,068
Total value of output .. £'000	29,712	26,300	4,664	3,621	3,092	1,163	68,552
Value of land and buildings £'000	6,088	6,305	926	738	715	312	15,084
Value of plant and machinery £'000	6,075	6,542	1,010	1,009	775	294	15,705
Horse-power of engines ordinarily in use h.p.	15,953	14,258	2,527	2,230	2,121	874	37,963

NEWSPAPERS AND PERIODICALS, 1957-58.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	179	106	58	37	22	5	407
Number of persons employed ..	6,946	2,924	2,253	1,127	731	406	14,387
Salaries and wages paid .. £'000	6,807	2,951	1,963	1,090	758	428	13,997
Value of power, fuel, etc., used £'000	285	115	79	35	40	8	562
Value of materials used .. £'000	11,346	7,268	2,977	2,033	1,314	361	25,299
Value of production .. £'000	12,321	5,224	3,720	2,097	1,624	594	25,580
Total value of output .. £'000	23,952	12,607	6,776	4,165	2,978	963	51,441
Value of land and buildings £'000	7,440	1,517	1,377	1,013	539	226	12,112
Value of plant and machinery £'000	6,109	1,790	1,428	616	640	250	10,833
Horse-power of engines ordinarily in use h.p.	14,815	9,862	5,968	3,438	2,554	803	37,440

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 208,000 tons in 1957–58.

The number of factories operating in 1957–58 comprised four in New South Wales, seven in Victoria, two in Queensland, one each in 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.	1953-54.	1954-55.	1955-56. (a)	1956-57. (a)	1957-58. (a)
Number of factories	7	18	20	17	17	18
Number of persons employed	1,961	7,179	7,611	7,480	7,903	8,088
Salaries and wages paid £'000	467	6,130	7,095	7,813	8,783	9,752
Value of power, fuel, etc., used £'000	201	2,048	2,560	2,735	2,996	3,131
Value of materials used £'000	1,096	15,198	17,474	18,963	22,419	22,903
Value of production £'000	1,005	15,451	18,294	17,330	19,383	23,910
Total value of output £'000	2,302	32,697	38,328	39,028	44,798	49,944
Value of land and buildings £'000	850	8,106	8,255	9,312	9,527	12,203
Value of plant and machinery £'000	1,713	16,810	18,050	18,640	18,141	21,835
Horse-power of engines ordinarily in use h.p.	31,548	141,373	157,948	164,123	170,382	174,557

(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 1957-58 but excludes establishments engaged primarily in the retreading and repairing of tyres:—

RUBBER GOODS, 1957-58.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	42	54	12	8	2	..	118
Number of persons employed	6,833	6,254	1,096	(a)	(a)	..	15,017
Salaries and wages paid £'000	6,891	6,280	894	(a)	(a)	..	14,931
Value of power, fuel, etc., used £'000	929	991	116	(a)	(a)	..	2,131
Value of materials used £'000	16,163	15,910	2,799	(a)	(a)	..	36,044
Value of production £'000	9,359	12,001	2,014	(a)	(a)	..	24,782
Total value of output £'000	26,451	28,902	4,929	(a)	(a)	..	62,957
Value of land and buildings £'000	2,498	3,734	463	(a)	(a)	..	7,120
Value of plant and machinery £'000	3,181	4,028	385	(a)	(a)	..	7,839
Horse-power of engines ordinarily in use h.p.	53,832	55,214	8,215	(a)	(a)	..	120,602

(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 1957-58 and for Australia for a series of years are shown below:—

ELECTRIC LIGHT AND POWER WORKS.

1957-58.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	72	51	60	38	87	11	319
Number of persons employed	5,558	3,247	1,605	(a)	1,070	(a)	12,833
Salaries and wages paid £'000	5,739	3,599	1,537	(a)	1,120	(a)	13,467
Value of power, fuel, etc., used £'000	15,729	11,153	5,817	(a)	3,432	(a)	40,261
Value of materials used £'000	2,300	677	978	(a)	288	(a)	4,740
Value of production £'000	26,283	13,706	5,261	(a)	3,318	(a)	55,514
Total value of output £'000	44,312	25,536	12,056	(a)	7,038	(a)	100,515
Value of land and buildings £'000	36,275	17,444	9,078	(a)	2,813	(a)	107,162
Value of plant and machinery £'000	74,893	63,659	32,964	(a)	16,646	(a)	222,542
Generators installed—Kilowatt capacity '000 kW	1,928	1,160	597	(a)	299	(a)	4,881

ELECTRIC LIGHT AND POWER WORKS—continued.

AUSTRALIA.

Items.	1938-39.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58.
Number of factories	395	351	351	332	328	319
Number of persons employed	6,508	11,395	11,927	12,111	12,473	12,833
Salaries and wages paid £'000	1,977	10,308	11,457	12,497	13,571	13,467
Value of power, fuel, etc., used £'000	3,239	35,083	36,548	37,479	39,830	40,261
Value of materials used £'000	530	4,800	4,170	4,090	4,396	4,740
Value of production £'000	8,714	30,098	37,568	43,219	50,722	55,514
Total value of output £'000	12,483	69,981	78,286	84,788	94,948	100,515
Value of land and buildings £'000	8,388	47,369	60,120	73,688	102,318	107,162
Value of plant and machinery £'000	27,751	122,773	146,273	158,377	198,269	222,542

(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 generation of electricity in each of the States in 1938-39 and a series of years is shown in the following table:—

ELECTRIC LIGHT AND POWER WORKS: ELECTRICITY GENERATED.

(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
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	7,595	5,320	2,133	1,581	829	2,338	19,796
1958-59(a)	8,286	5,640	2,306	1,580	867	2,456	21,135

(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 1957-58 and for Australia for a series of years:—

GAS-WORKS.

1957-58.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	37	27	16	3	3	2	88
Number of persons employed	1,393	1,372	359	(a)	184	(a)	3,783
Salaries and wages paid £'000	1,620	1,738	303	(a)	167	(a)	4,309
Value of power, fuel, etc., used £'000	2,051	417	43	(a)	104	(a)	2,720
Value of materials used £'000	5,935	5,703	1,079	(a)	618	(a)	15,030
Value of production £'000	5,957	2,608	916	(a)	340	(a)	10,577
Total value of output £'000	13,943	8,728	2,038	(a)	1,062	(a)	28,327
Value of land and buildings £'000	1,559	3,349	351	(a)	179	(a)	5,710
Value of plant and machinery £'000	6,920	12,554	2,116	(a)	1,585	(a)	26,823
Horse-power of engines ordinarily in use h.p.	18,393	15,840	2,482	(a)	1,204	(a)	44,913

AUSTRALIA.

Items.	1938-39.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58.
Number of factories	107	98	97	95	94	88
Number of persons employed	2,931	4,141	4,103	4,087	4,138	3,783
Salaries and wages paid £'000	785	3,767	3,882	4,148	4,448	4,309
Value of power, fuel, light, etc., used £'000	251	2,244	2,291	2,297	2,591	2,720
Value of materials used £'000	1,872	15,249	15,187	15,350	15,598	15,030
Value of production £'000	2,694	8,121	9,103	9,272	9,894	10,577
Total value of output £'000	4,817	25,614	26,581	26,919	28,083	28,327
Value of land and buildings £'000	1,463	2,416	2,488	2,748	5,189	5,710
Value of plant and machinery £'000	7,498	17,235	19,134	19,828	27,667	26,823
Horse-power of engines ordinarily in use h.p.	17,905	30,055	33,389	42,082	44,373	44,913

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

(ii) *Coal Used and Production.* The following table shows details for 1957-58:—

GAS-WORKS: COAL USED AND PRODUCTION, 1957-58.

Particulars.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Coal used '000 tons	834	504	200	(a)	54	(a)	1,779
Gas produced million cu. ft.	22,506	16,684	3,153	(a)	1,420	(a)	47,655
Gas sold "	18,732	14,295	2,701	(a)	1,223	(a)	40,394
Coke produced (b) '000 tons	429	199	76	(a)	21	(a)	832

(a) Not available for publication; figures are included in the total for Australia. (b) In addition 2,264,032 tons of metallurgical coke were made in Coke Works in 1957-58.

Since 1938-39, when the output of gas was 21 thousand million cubic feet, production has increased each year and reached 48,655 million cubic feet with an equivalent of 245,216 thousand therms (1 Therm=100,000 B.T.U.), in 1958-59.