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 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. For further information concerning the work of the Organization see Chapter XXX. of this Year Book.
- (ii) The Standards Association of Australia. This Association, which is also discussed in more detail 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

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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 1945 Conference of Statisticians.

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.

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, Iron and Steel. Rolling of 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 Repairing.
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 TOBACCOcontinued.
Confectionery (including Chocolate and Icing Sugar).

Jam, Fruit and Vegetable Canning.
Pickles, Sauces, Vinegar.
Bacon Curing.
Butter Factories. Cheese Factorie 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 Čream. Sausage Casings. Arrowroot. Other.

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

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

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

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

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

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

CLASS XIII.—RUBBER.
Rubber Goods (including Tyres Made).
Tyre Retreading and Repairing.

CLASS XIV.—MUSICAL INSTRUMENTS. Gramophones and Gramophone Records. Pianos, Piano-Players, Organs. Other.

CLASS XV.—MISCELLANEOUS PRODUCTS.
Linoleum, Leather-cloth, Oil-cloth, etc.
Bone, Horn, Ivory and Shell.
Plastic Moulding and Products.
Brooms and Brushes.
Optical Instruments and Appliances,
Surgical and Other Scientific Instruments and Appliances.
Photographic Material, (including Developing and Printing).
Toys, Games and Sports Requisites.
Artificial Flowers.
Other.

CLASS XVI.—HEAT, LIGHT, AND POWER. Electric Light and Power. Gas Works.

8. Factory Development since 1901—Australia.—The development of the manufacturing industries in Australia at intervals since 1901 is summarized in the following table:—

FACTORIES: AUSTRALIA.

					•	Value of-		
Year.	Fac- tories.	Employ- ment.(a)	Salaries and Wages Paid.(b)	Materials and Fuel Used.	Output.	Pro- duction. (c)	Land and Build- ings.	Plant and Ma- chinery.
1901 1911 1920-21 1930-31 1940-41 1950-51 1954-55 1955-56 1956-57 1957-58 1958-59	No. 11,143 14,455 17,113 21,751 27,300 43,147 51,056 52,406 53,200 53,988 54,888	'000. 198 312 367 339 650 969 1,031 1,060 1,063 1,074 1,088	£'000. (d) 27,528 62,932 62,455 137,919 491,718 781,640 853,469 891,090 929,290 970,553	2,263,346	£'000. (d) 133,022 323,993 290,799 644,795 2,150,835 3,434,589 13,764,060 4,022,413 4,273,882 4,491,932	£'000, (d) 51,259 110,434 118,310 257,914 843,872 1,365,509 1,500,714 1,622,120 1,728,723 1,842,601	£'000. (d) 32,701 60,831 112,211 144,094 302,785 555,996 653,574 759,687 849,036 947,899	£'000. (d) 31,516 68,655 124,498 161,356 98,292 797,835 917,037 1,012,735 1,108,385

⁽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 1954-55 to 1958-59:—

EA	CTC	DIEC.	NUMBER.
rа	UIL	KIES:	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
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
1958-59		 22,684	16,527	5,651	4,235	4,125	1,666	54,888

2. Number of Factories in Industrial Classes.—(i) Australia. The next table shows the number of factories in Australia during 1938-39 and 1954-55 to 1958-59 classified to 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 196.

FACTORIES: NUMBER IN INDUSTRIAL CLASSES: AUSTRALIA.

Class of Industry.	1938-39.	1954–55.	1955–56.	1956–57.	1957–58.	1958–59.
I. Treatment of Non-metalliferous Mine						
and Quarry Products	564	1,303	1,337	1,331	1,328	1,344
II. Bricks, Pottery, Glass, etc	471	662	666	672	660	663
III. Chemicals, Dyes, Explosives, Paints,					1	
Oils, Grease	666	1,124	1,139	1,162	1,184	1,218
IV. Industrial Metals, Machines, Convey-				l	l	
ances	7,255	17,842	18,860	19,766	20,518	21,254
V. Precious Metals, Jewellery, Plate	290	746	782	824	808	818
VI. Textiles and Textile Goods (not Dress)	611	1,356	1,362	1,364	1,364	1,373
VII. Skins and Leather (not Clothing or					·	
Footwear)	533	810	789	785	761	729
VIII. Clothing (except Knitted)	4,314	7,370	7,390	7,312	7,266	7,195
IX. Food, Drink and Tobacco	5,202	7,433	7,468	7,315	7,455	7,580
X. Sawmills, Joinery, Boxes, etc., Wood	2 000		£ 00.5	6 070	5.764	
Turning and Carving	2,822	5,845	5,895	5,872	5,764	5,676
XI. Furniture of Wood, Bedding, etc.	1,149	2,200	2,203	2,199	2,200	2,184
XII. Paper, Stationery, Printing, Book-	1016	0.004	2 202	2 267	2 412	2510
binding, etc	1,816	2,224	2,303	2,367	2,413	2,518
Will be a last to the same and	299	495 79	513 84	536 88	565	606
Mar After Manager Designation	34				88	86
Av. Miscellaneous Products	413	1,119	1,188	1,185	1,207	1,251
Total, Classes I. to XV	26,439	50,608	51.979	52,778	53,581	54,495
XVI. Heat, Light and Power	502	448	427	422	407	393
Grand Total	26,941	51,056	52,406	53,200	53,988	54,888

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 1958-59. In the latter year, the number of factories in Australia reached the record total of 54,888 or more than twice the number in 1938-39.

(ii) States, 1958-59. The following table shows the number of factories in each State classified according to the nature of the industry:—

FACTORIES: NUMBER IN INDUSTRIAL CLASSES, 1958-59.

Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metallifer-		!					
ous Mine and Quarry Pro-	448	450	100	166	126	54	1,344
II. Bricks, Pottery, Glass, etc	313	160	56	67	48	19	663
III. Chemicals, Dyes, Explosives,	313	100	50	ĺ ,	1 70 1	17	005
Paints, Oils, Grease	595	361	82	88	67	25	1,218
IV. Industrial Metals, Machines,	5,5	, 501		1	"		-,
Conveyances	8,886	6,018	2,164	1,883	1,754	549	21,254
V. Precious Metals, Jewellery,	-,	-,		1	1 1		,
Plate	375	265	42	60	69	7	818
VI. Textiles and Textile Goods			i	1	1 1		
(not Dress)	480	754	28	51	42	18	1,373
VII. Skins and Leather (not Cloth-	:				ا ـ ا	_	
ing or Footwear)	325	275	53	38	30	. 8	729
VIII. Clothing (except Knitted)	3,346	2,442	532	369	412	94	7,195
IX. Food, Drink and Tobacco	2,745	2,178	1,059	690	619	289	7,580
X. Sawmills, Joinery, Boxes, etc.,		4 202	001	350	400	40-	
Wood Turning and Carving	2,231	1,382	801	350	456	456	5,676
XI. Furniture of Wood, Bedding,	020		200	107	172		2 104
etc.	830	665	288	167	172	62	2,184
XII. Paper, Stationery, Printing,	1 107	892	206	152	124	37	2,518
Bookbinding, etc	1,107 237	158	93	57	41	20	606
VIV Musical Instruments	36	25	8	ا و ا	8	20	86
VV Missellamanus Droducts	629	431	60	50	66		1,251
			5,572		4.034		
Total Classes I. to XV	22,583	16,456		4,197		1,653	54,495
XVI. Heat, Light and Power	101	71	79	38	91	13	393
Grand Total	22,684	16,527	5,651	4,235	4,125	1,666	54,888

§ 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, 1958-59.—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, 1958-59.

	Size of Factory (Persons employed).		N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
			r	Number o	F FACTO	RIES.			
Under 4			9,364	6,062	1,955	1,443	2,148	736	21,708
4			1,927	1,320	560	387	158	151	4,503
5 to 10			5,305	3,876	1,534	1,147	931	400	13,193
11 to 20			2,784	2,261	723	582	417	174	6,941
21 to 50			1,945	1,725	531	390	307	126	5,024
51 to 100			711	643	152	155	94	46	1,801
101 to 200			342	371	112	67	46	15	953
201 to 300			106	104	46	32	13	4	305
301 to 400			65	42	13	9	4	5	138
401 to 500			28	34	7	4	3	1	77
501 to 750			49	56	12	7	2	4	130
751 to 1,000	0		15	15	2		1		33
Over 1,000			43	18	4	12	1	4	82
Tota	I		22,684	16,527	5,651	4,235	4,125	1,666	54,888

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, 1958-59.

Size of I			N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
	Ave	RAC	ge Numbe	ER EMPLO	YED DURII	NG PERIOE	Worked	·.	
Under 4			17,475	12,314	4,056	2,968	4,187	1,447	42,447
4			7,708	5,280	2,240	1,548	632	604	18,012
5 to 10			36,759	27,604	10,562	7,917	5,997	2,755	91,594
11 to 20			40,739	33,184	10,435	8,527	5,848	2,589	101,322
21 to 50			60,595	54,311	16,628	12,316	9,407	3,869	157,126
51 to 100 .			49,788	44,817	10,873	10,561	6,272	3,298	125,609
101 to 200 .			47,733	51,670	15,819	9,057	6,348	2,149	132,776
			26,076	25,121	11,205	7,707	3,049	1,016	74,174
301 to 400 .			22,558	14,339	4,338	3,295	1,315	1,702	47,547
401 4- 500			12,671	15,284	3,273	1,732	1,306	412	34,678
501 to 750 .			30,670	33,579	7,251	4,382	1,167	2,703	79,752
751 to 1,000 .			13,116	12,896	1,867		780		28,659
Over 1,000 .	•		87,598	34,578	6,952	24,615	2,928	6,296	162,967
Total .		• •	453,486	364,977	105,499	94,625	49,236	28,840	1,096,663
Average per l	Factory		19.99	22.08	18.67	22.34	11.94	17.31	19.98

^{3.} Australia, 1938-39 and 1954-55 to 1958-59.—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.

		1	Es	tablishme	nts Emplo	ying on t	he Averag	; o	
		20 and	under.	21 to	100.	101 and	upwards.	Total.	
	Year.	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 ment 1954-55—	per establish-		5.89		42.60		287.55		21.25
Number Average	per establish-	42,835	241,233	6,603	273,257	1,618	524,307	51,056	1,038,797
ment 1955–56—	per establish-		5.63	!	41.38		324.00		20.35
Number Average	per establish-	44,012	246,087	6,736	279,991	1,658	542,428	52,406	1,068,506
ment 1956-57—			5.59		41.57		327.16	••	20.39
Number Average	per establish-	44,790	249,069	6,730	279,974	1,680	541,872	53,200	1,070,915
ment 1957-58			5.56	••	41.60		322.54	••	20.13
Number Average	per establish-	45,569	250,748	6,730	279,750	1,689	550,777	53,988	1,081,275
ment		••	5.50	••	41.57	• •	326.10	••	20.03
Number Average	per establish-	46,345	253,375	6,825	282,735	1,718	560,553	54,888	1,096,663
ment	per establishe		5.47	١	41.43		326.28		19.98

§ 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 1958-59, 344 factories were recorded as using no power other than manual.
- 2. Rated Horse-power of Engines in Factories other than Central Electric Stations.— The following table shows the total number of factories and the total rated horse-power of engines and electric motors ordinarily in use and in reserve or idle during 1958-59:—

FACTORIES(a): TOTAL RATED HORSE-POWER OF ENGINES AND ELECTRIC MOTORS, 1958-59.

						Rated Hor of Engines a		
	St	ate.			Factories.(a)	Ordinarily In Use.(b)	In Reserve or Idle (omitting obsolete).	
New South Wales					22,620	2,188,405	389,148	
Victoria		• • •	• • • • • • • • • • • • • • • • • • • •		16,483	1,388,498	194,929	
Queensland		• • •	• • •	• • •	5,588	525,703	80,742	
South Australia					4,200	385,032	47,958	
Western Australia					4.037	254,395	36,718	
Tasmania	••		••		1,655	253,433	35,371	
Australia					54,583	4,995,466	784,866	

⁽a) Includes Gas Works but excludes Central Electric Stations. (b) Excludes motors driven 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, 1958-1959.

	Stea	ım.	Intern	al Combu	stion.		Motors of Elect		
State.	Recipro- cating.	Tur- bine.	Gas.	Petrol or Other Light Oils.	Heavy Oils.	Water.	Pur- chased.		
N.S.W. Victoria Queensland S. Australia W. Australia Tasmania	 75,620 20,768 74,819 7,414 10,912 1,372	146,189 71,359 63,832 9,550 11,640 24	861 2,845 2,638 981 3,495	41,526 31,677 16,215 7,867 15,736 9,895	16,774 9,627 11,078 9,346 9,203 475	919	203,409	53,795 97,941 23,930 5,282	254,395
Australia	 190,905	302,594	10,821	122,916	56,503	1,271	4,310,356	270,981	4,995,466

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

⁽b) Excludes particulars in

(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 1954-55 to 1958-59:—

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

		Stea	ım.	Intern	al Combu	stion.			Motors driven by Electricity.	
Year.		Recipro-	Tur- bine.	Gas.	Petrol or Other Light Oils.	Heavy Oils.	Water.	Pur- chased.	Own Genera- tion. (c)	Total. (b)
1938-39 1954-55 1955-56 1956-57 1957-58 1958-59	::	268,409 225,192 223,147 214,875 204,854 190,905	84,149 202,162 254,497 262,559 266,659 302,594	32,916 7,407 8,746 7,973 9,487 10,821	17,971 103,954 112,944 120,533 118,106 122,916	55,799 93,465 90,314 74,060 64,498 56,503	1,616 1,695 1,641 1,431 1,770 1,271	1,017,912 3,398,135 3,674,373 3,860,595 4,062,006 4,310,356	226,625 243,800 260,708 274,287	1,478,772 4,032,010 4,365,662 4,542,026 4,727,380 4,995,466

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

(iii) In Classes of Industry, 1958-59. 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), 1958-59.

	Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I.	Treatment of Non-metalli-							
	ferous Mine and Quarry							!
	Products	92,824				17,009	15,433	
	Bricks, Pottery, Glass, etc	53,595	35,715	8,551	9,799	11,047	2,396	121,103
ш.	Chemicals, Dyes, Explosives,							1
	Paints, Oils, Grease	165,686	145,861	11,193	21,706	43,795	12,304	400,545
17.	Industrial Metals, Machines,	1 105 050	442.041	00.470	177 200	60.505	C2 40C	2 222 572
	Conveyances	1,185,050	443,841	98,470	177,298	69,505	63,406	2,037,570
v.	Precious Metals, Jewellery,	5 160	4 220	1 170	997	645	59	10 070
377	Plate Textiles and Textile Goods (not	5,168	4,238	1,172	997	043	39	12,279
¥ 1.	Dress)	55,801	106,975	7,154	8,263	2 060	8,248	100 200
VII	Skins and Leather (not Cloth-	33,601	100,573	7,134	0,203	2,868	0,240	189,309
¥ 11.	inn na Fantaura)	18,759	18,577	5,500	6.185	3,087	519	52,627
VIII	Clothing (except Knitted)	24,097					981	
	Food, Drink and Tobacco	208,963					20,619	
	Sawmills, Joinery, Boxes, etc.,	200,505	200,511	210,102	37,023	40,500	20,017	755,501
	Wood Turning and Carving	180,359	125,017	106,807	40,525	50,328	42,115	545,151
XI.	Furniture of Wood, Bedding,	1	120,01	100,007	,	50,520	,	0.0,.01
	etc	18,954	16,141	7,993	6,697	4,344	1,406	55,535
XII.	Paper, Stationery, Printing,		,	.,	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-,	,
	Bookbinding, etc.	72,425	92,687	21.976	14,365	5,757	84,941	292,151
	Rubber	57,847		10,104	4,993	981	446	137,643
	Musical Instruments	1,665		51	12	8		2,048
XV.	Miscellaneous Products	28,572	27,405	766	2,293	933	434	60,403
	-	i						
	Total, Classes I. to XV	2,169,765	1,372,141	522,829	377,490	253,191	253,307	4,948,723
329 17	G . W . 1	10.510	16000			4.004		46.740
XVI.	Gas Works	18,640	16,357	2,874	7,542	1,204	126	46,743
	Grand Total	2,188,405	1,388,498	525,703	385,032	254,395	253,433	4,995,466

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

⁽b) Excludes particulars in

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 1958-59 are given in the following table:—

CENTRAL ELECTRIC STATIONS: POWER EQUIPMENT, AUSTRALIA, 1958-59.

	Capacity of Engines and Generators.								
Particulars.	Ste	am.	Intern	nal Comb					
	Recipro- cating.	Turbine.	Gas.	Petrol or Other Light Oils.	Heavy Oils.	Water.	Total.		
Engines installed Rated H.P.	5,346	5,628,240	10,902	21,842	305,514	1,566,490	7,538,334		
Generators installed— Kilowatt capacity— Total installed kW Effective capacity ,,	3,984 3,824	4,168,297 3,882,332	7,398 5,760	14,227 12,817	211,445 192,771	1,125,770 1,084,916	5,531,121 5,182,420		
Horse-power equivalent— Total installed H.P. Effective capacity ,,	5,340 5,126	5,587,519 5,204,188	9,917 7,721	19,071 17,181	283,438 258,406		7,414,357 6,946,930		

Note.—The number of establishments classified as Central Electric Stations in 1958-59 was 305.

(ii) States. Details of the capacity of engines and generators installed in Central Electric Stations in each State in 1958-59 are given in the next table:—

CENTRAL ELECTRIC STATIONS: NUMBER AND POWER EQUIPMENT, 1958-59.

Particulars.	N.S.W.	Vic.	Q'and.	S. Aust.	W. Aust.	Tas.	Aust.
Central Electric Stations No	64	44	63	35	88	11	305
Engines installed Rated H.I	3,089,985	1,786,817	955,894	552,175	452,673	700,790	7,538,334
Generators installed— Kilowatt capacity— Total installed ky Effective capacity		1,309,751 1,276,788			330,090 324,699		
Horse-power equivalent— Total installed H.I Effective capacity ,,		1,755,695 1,711,509					

§ 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 "outworkers" (see para. 4 (ii), p. 173), 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 collection form was amended to obtain the following groupings:—(i) Working proprietors; (iii) 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. 165), 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 1954-55 to 1958-59 in the following table:—

								_		
		Males.			Females.		Persons.			
Year.			ase on ng Year. Number Em-		Increase on Preceding Year.		Number Em-	Increase on Preceding Year		
	ployed.	Number.	Per Cent.	ployed.	Number.	Per Cent.	ployed.	Number.	Per Cent.	
1938–39 1954–55 1955–56 1956–57 1957–58 1958–59	788,691 811,847 813,551 822,515	3,989 30,183 23,156 1,704 8,964 12,425	3.98 2.94 0.21 1.10	152,515 242,391 248,651 249,847 251,292 253,316	1,957 11,357 6,260 1,196 1,445 2,024	1.30 4.92 2.58 0.48 0.58 0.81	565,106 1,031,082 1,060,498 1,063,398 1,073,807 1,088,256	41,540 29,416 2,900 10.409	4.20 2.85 0.27 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.
	Avı	erage Num	aber Empl	OYED DURI	NG FULL	Year (52 V	Veeks).	
1938–39		228,781	201,831	54,110	43,371	23,211	13,802	565,106
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
1958–59	••	449,518	362,979	104,753	94,165	48,417	28,424	1,088,256
			Percentac	SE OF AUST	ralian To	ſAL.		
1938–39		40.48	35.72	9.58	7.67	4.11	2.44	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
1958-59	'	41.31	33.35	9.63	8.65	4.45	2.61	100
		,			[1		

FACTORIES:	EMPLOYMENT-	-continued.
------------	-------------	-------------

Year.		N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
			Per 1	,000 of Po	PULATION.			
1938–39		84	108	54	73	50	58	82
1954-55	!	121	139	76	111	75	81	113
1955–56		123	139	76	111	75	85	114
1956–57		122	135	75	107	71	85	112
1957–58		122	132	73	104	69	84	111
1958–59		121	131	73	104	68	83	110

2. Rates of Increase, 1938-39 and 1954-55 to 1958-59.—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 1954–55		1.74	0.02 4.64	3.82	-1.62 4.75	0.34	4.80 3.51	1.06
1955-56		3.16	2.46	2.17	3.38	1.61	6.33	2.85
1956-57 1957-58		0.75 2.18	0.00 0.55	0.93 -1.53	-0.66 0.53	$\begin{bmatrix} -2.71 \\ -0.59 \end{bmatrix}$	2.25 1.50	0.27 0.98
1958–59		0.83	1.63	2.86	1.83	-0.09	1.21	1.35

Note.—Minus sign (-) indicates decrease.

3. Persons Employed in Industrial Classes.—(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 1954-55 to 1958-59:—

FACTORIES: PERSONS EMPLOYED IN INDUSTRIAL CLASSES, AUSTRALIA.

	Grand Total	565,106	1,031,082	1,060,498	1,063,398	1,073,807	1,088,256
XVI.	Heat, Light and Power	9,429	16,030	16,198	16,611	16,616	17,041
	Total, Classes 1. to XV	555,677	1,015,052		1,046,787		
XV.	Miscellaneous Products	7,727	19,962	20,967	21,746	22,332	
XIV.	Musical Instruments	451	1,623		1,902		1,025
	Rubber	7,502	16,325		17,844		
	binding, etc	39,913	59,777,				
XII.	Paper, Stationery, Printing, Book-	1		,	-		
XI,	Furniture of Wood, Bedding, etc	15,287	21,342				
	Turning and Carving	30,739	61,153	61,914	60,008	59,238	60,101
	Sawmills, Joinery, Boxes, etc., Wood	,040	,,,,,,,,	0,-00	,. 25		,
	Food, Drink and Tobacco	83,846	125,934				125,408
VIII.	Clothing (except Knitted)	86,092	112,802				106,098
¥ 11.	E	10,767	14,502	13,810	13,454	13,171	12,935
	Skins and Leather (not Clothing or	46,082	69,046	68,356	70,176	00,873	67,467
	Textiles and Textile Goods (not Dress)	3,726	6,029				
v	Precious Metals, Jewellery, Plate	177,677	422,124			459,345	
IV.	Industrial Metals, Machines, Convey-	122 (22	400 104	444 374	447 405	450 245	460 446
	Oils, Grease	19,816	41,324	44,718	45,753	46,986	47,876
III.	Chemicals, Dyes, Explosives, Paints,	[1	
	Bricks, Pottery, Glass, etc	15,709	22,549	22,914	22,162	22,448	23,093
1.	Treatment of Non-metalliferous Mine and Quarry Products	10,343	20,560	20,893	20,318		
		I					
	Class of Industry.	1938-39.	1934-35.	1955-56.	1936-37.	1957–58.	1938-39.

(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, 1958-59.

Class of Industry.	N.S.W.	Vic.	Q'iand.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metalli-							. ———
ferous Mine and Quarry Products	8,330	6,522	1,931	2,037	1,497	776	21,093
II. Bricks, Pottery, Glass, etc	11,984	5,846	1,324	2,167	1,415	357	23,093
III, Chemicals, Dyes, Explosives,		-,	-,	_,,	-,		
Paints, Oils, Grease	21,995	17,392	1,835	3,182	2,668	804	47,876
IV. Industrial Metals, Machines,				1			
Conveyances	212,456	139,115	37,012	51,952	19,380	9,531	469,446
V. Precious Metals, Jewellery,	2,348	2 150	297	443	224	21	5,483
Plate VI. Textiles and Textile Goods	2,348	2,150	291	443	1 224	21	3,403
(not Dress)	21,570	37,500	2,133	2,556	926	2,782	67,467
VII. Skins and Leather (not Cloth-	2.,	37,500	2,155	2,550	1 720	2,702	,
ing or Footwear)	5,365	4,559	1,147	1,201	593	70	12,935
VIII. Clothing (except Knitted)	43,393	45,783	7,757	4,994	3,317	854	106,098
IX. Food, Drink and Tobacco	38,468	37,383	27,414	10,828	6,704	4,611	125,408
X. Sawmills, Joinery, Boxes, etc.	00.073	4.5.000	10.004			2.540	60.10
Wood Turning and Carving	20,073	15,092	10,624	5,041	5,722	3,549	60,101
XI. Furniture of Wood, Bedding, etc.	9,002	6,492	2,908	1,969	1,306	433	22,110
XII. Paper, Stationery, Printing,	3,002	0,472	2,300	1,505	1,500	733	22,110
Bookbinding, etc.	28,844	22,846	5,958	4.103	2,609	3,967	68,327
XIII. Rubber	7,813	7,207	1,759	1,241	282	165	18,467
XIV. Musical Instruments	648	247	60	34	36		1,025
XV. Miscellaneous Products	10,350	9,863	599	829	450	195	22,286
Total Classes I. to XV.	442,639	357,997	102,758	92,577	47,129	28,115	1,071,215
XVI. Heat, Light and Power	6,879	4,982	1,995	1,588	1,288	309	17,04
Grand Total	449,518	362,979	104,753	94,165	48,417	28,424	1,088,25

4. Persons Employed According to Occupational Grouping.—(i) General. In the following table, the average number of persons employed in each State during 1958-59 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. 170).

FACTORIES: PERSONS EMPLOYED—OCCUPATIONAL GROUPING, 1958-59.

		Average Number of Persons Employed.										
State.	Working Pro- prietors.	Mana- gerial and Clerical Staff, etc.(a)	Chemists, Drafts- men, etc.	Foremen and Overseers.	Workers in Factory (Skilled and Un- skilled).	Carters (excluding Delivery only) and Messen- gers, etc. (b)	Total.					
N- C- 4 W-1 -	16.034	65.640	7.226	10.004	240,470	2.217	440.510					
	. 16,034	55,649	7,336	19,804	348,478	2,217	449,518					
	. 13,704	42,960	6,152	17,208	280,828	2,127	362,979					
• • • • • • • • • • • • • • • • • • • •	. 4,912	10,539	1,185	4,210	83,510	397	104,753					
South Australia .	. 2,986	11,513	1,806	4,527	72,976	357	94,165					
Western Australia .	. 2,732	4,268	470	2,171	38,682	94	48,417					
Tasmania	. 1,033	2,937	598	1,371	22,354	131	28,424					
Total Males .	. 35,720	78,631	15,903	45,688	654,599	4,399	834,940					
Total Females .	. 5,681	49,235	1,644	3,603	192,229	924	253,316					
Total Persons .	. 41,401	127,866	17,547	49,291	846,828	5,323	1,088,256					

⁽a) Includes salaried managers and working directors.

⁽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 1954-55 to 1958-59.—(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.)

	Mont	h.		1938-39.	1954-55.	1955-56.	1956–57.	1957~58.	1958-59.			
				M	IALES.							
July		••		387,693	739,450	768,382	775,580	781,156	794,374			
August		• •		389,979	741,435	770,312	774,506	780,630	794,537			
September			••	391,576	743,638	771,715	774,119	782,988	795,464			
October	• •			393,977	746,139	774,071	774,455	785,289	796,964			
November	• •		• •	395,192	750,285	777,304	777,127	785,825	799,368			
December			• •	394,438	747,230	772,509	772,479	781,054	792,351			
_				200 540			· · ·	7 06 7 00	70400			
January	• •	• •	• •	385,742	750,823	774,077	773,419	786,520	794,996			
February	• •	• •	• •	392,056	755,456	778,552	779,646	790,835	800,208			
March	• •	• •	• •	395,146	757,956	779,527	780,973	793,327	802,408			
April	• •	• •	• •	391,005	760,139	780,418	777,262	791,617	804,259			
May	• •	• •	• •	393,609	761,555	780,252	779,757	791,403	804,691			
June	••	• •	••	390,963	763,488	777,968	780,156	791,098	805,641			
Females.												
July		•••		147,282	231,222	238,8831	240,918	242,399	244,610			
August				149,294	232,603	240,857	241,429	243,489	245,349			
September				151,159	234,818	243,289	243,199	245,019	245,882			
October				152,473	236,930	244,840	245,130	246,360	246,199			
November				152,806	238,146	244,582	245,006	247,805	247,098			
December				151,165	236,804	242,366	242,175	244,653	244,235			
January			• •	141,853	236,664	240,574	243,191	245,340	243,625			
February		• •	• •	151,883	242,008	247,841	248,336	250,891	249,847			
March	• •	• •	• •	154,854	242,573	247,209	250,728	252,918	250,384			
April	• •		• •	152,614	239,460	244,588	245,873	247,439	249,209			
May				150,693	238,450	243,989	244,054	245,855	248,365			
June	• •	• • •	• •	148,601	238,529	242,548	242,966	244,052	248,915			
		_		Pei	RSONS.							
July		••	••	534,975				1,023,555				
August				539,273				1,024,119				
September				542,735				1,028,007				
October			!	546,450	983,069	1,018,911	1,019,585	1,031,649	1,043,163			
November				547,998	988,431	1,021,886	1,022,133	1,033,630	1,046,466			
December				545,603	984,034	1,014,875	1,014,654	1,025,707	1,036,586			
_				 								
January	• •	• •		527,595				1,031,860				
February	• •	• •	• • •	543,939				1,041,726				
March	••	• •			1,000,529							
April	• •	• •		543,619				1,039,056				
May	• •	• •			1,000,005							
June	• •	• •		539,564	1,002,017	1,020,516	,023,122	1,035,150	1,054,556			

(ii) States. Particulars of the numbers employed in each State on the last pay-day of each month in 1958-59 are shown in the following table:—

FACTORIES: MONTHLY EMPLOYMENT, 1958-59.

(EXCLUDING WORKING PROPRIETORS.)

M	onth.		N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
				M	TALES.				
July			326,309	248,758	84,310	73,776	39,216	22,005	794,374
August	••	••	326,008	248,665	84,985	73,770	39,210	21,958	794,53
September	• •	• •	325,989	249,519	84,850	73,856	39,296	21,954	795,46
October	••	• •	326,292	250,322	84,988	74,010	39,290	22,065	796,96
November	• •	••	327,488	251,345	84,862	74,010	39,361	22,109	799,36
December	••	• •	326,274	251,174	78,565	74,265	39,428	22,745	792,35
December	••	••	320,214	231,174	76,303	74,103	39,420	22,743	192,33
January			326,351	252,506	79,102	74,833	39,196	23,008	794,99
February			327,525	254,291	81,422	75,043	39,379	22,548	800,20
March			328,011	254,914	81,611	75,556	39,744	22,572	802,40
April			328,723	254,527	82,911	75,692	39,731	22,675	804,259
May	••	••	329,466	254,049	83,598	75,466	39,492	22,620	804,69
June	••		329,822	254,083	84,396	75,758	39,136	22,446	805,64
	-			!	<u> </u>				1
			,	Fe	MALES.				
July			106,023	95,022	16,439	16,051	6,203	4,872	244,610
August	••	• • • • • • • • • • • • • • • • • • • •	106,583	94,894	17,053	16,064	6,220	4,535	245,349
September	• • • • • • • • • • • • • • • • • • • •	• • •	106,864	95,284	16,921	16,185	6,303	4,325	245,882
October		• • •	106,730	96,000	16,713	16,182	6,343	4,231	246,19
November	••	• • • • • • • • • • • • • • • • • • • •	106,708	96,769	16,709	16,160	6,338	4,414	247,09
December	• •	• •	105,052	95,541	16,386	16,044	6,321	4,891	244,23
			,		11,111	10,011	-,	-,	,
January			103,683	95,018	16,884	16,757	6,223	5,060	243,62
February			105,662	99,057	17,716	16,390	6,307	4,715	249,84
March			106,245	99,163	17,027	16,659	6,425	4,865	250,384
April			106,147	98,614	16,431	16,209	6,461	5,347	249,209
May			106,506	97,441	16,467	16,195	6,407	5,349	248,36
June	••	••	107,136	97,522	16,547	16,376	6,212	5,122	248,91
) Pe	RSONS.				
			1	1	[<u> </u>
July			432,332	343,780	100,749	89,827	45,419	26,877	1,038,984
August	• •		432,591	343,559	102,038	89,814	45,391	26,493	1,039,88
September			432,853	344,803	101,771	90,041	45,599	26,279	1,041,34
October			433,022	346,322	101,701	90,192	45,630	26,296	1,043,16
November			434,196	348,114	101,571	90,363	45,699	26,523	1,046,46
December	••	• •	431,326	346,715	94,951	90,209	45,749	27,636	1,036,58
January			430,034	347,524	95,986	91,590	45,419	28,068	1,038,62
February	• •	• •	433,187	353,348	99,138	91,390	45,686	27,263	1,050,05
reordary March	• •	• •			98,638	92,215	46,169	27,437	
IVI AI CII	• •	• •	434,256 434,870	354,077 353,141	99,342	92,213	46,192	28,022	1,052,79
A neil									
April Mar	••	••							
April May June	••	••	435,972 436,958	351,490 351,605	100,065	91,661 92,134	45,899 45,348	27,969 27,568	1,053,05

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, provides for 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, 1958 and 1959, are given below:--

FACTORIES: DISTRIBUTION OF EMPLOYEES ACCORDING TO AGE, JUNE, 1958 AND 1959.

(EXCLUDING WORKING PROPRIETORS.)

			June, 1958.		June, 1959.				
Age Group.		Males.	Females.	Persons.	Males.	Females.	Persons.		
Under 16 years		8,710	6.924	15,634	8,411	7,234	15,645		
16 years		13,817	9,180	22,997	13,556	8,957	22,513		
17 ,,		16,347	9,790	26,137	16,532	9,878	26,410		
18 ,,		16,802	10,025	26,827	17,085	9,639	26,724		
19 ,,	!	16,337	9,421	25,758	16,099	9,069	25,168		
20 ,,		15,315	8,737	24,052	15,189	8,468	23,657		
21 ,, and over		703,770	189,975	893,745	718,769	195,670	914,439		
Total		791,098	244,052	1,035,150	805,641	248,915	1,054,556		

The following table shows the age distribution in sexes for Australia in June, 1939, and 1955 to 1959:-

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

			(Exclu	DING WO	RKING PR	COPRIETOR	s.)		
in Ju	1c.	Under 16 Years.	16 Years.	17 Years.	18 Years.	19 Years.	20 Years.	21 Years and Over.	Total.
				N	ALES.				
1939(a)		16,109	[76,418			298,436	390,963
1955		9,093	13,137	14,694	15,341	13,772	12.838	684,613	763,488
1956	• •	9,061							777,968
1957	• •	9,158							780,156
1958	• •	8,710		16,347					791,098
1959	• •								805,641
1939		8,411	13,556	10,332	17,085	16,099	15,189	/10,/091	003,041
				Fi	EMALES.				
1939(a)		15,497	1	· · · · · · · · · · · · · · · · · · ·	56,273			76,831	148,601
1955		6,605	8,547	9,902	9,994	8,600	7,710	187,171	238,529
1956	• • •	6,557		9,390					242,548
1957		6,828		9,276					242,966
1958		6,924		9,790					244,052
1959		7,234							248,915
						,	, 2,	7 7	
				PE	RSONS.				
1939(a)	•••	31,606			132,691			375,267	539,564
1955		15,698	21,684	24,596	25,335	22,372	20,548	871,784	1,002,017
1077	, , ,	1 7 600	21,100	04.075				000 400	

25,450

25,819

26,827

26,724

23,956

24,205

25,758

25,168

21,436

22,121

24,052

23,657

888,493 1,020,516

888,824 1,023,122

893,745 1,035,150

914,439 1,054,556

24,375

24,565

26,137

26,410

21,188

21,602

22,997

22,513

15,618

15,986

15,634

15,645

1956

1957

1958

1959

⁽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 1954-55 to 1958-59:—

FACTORIES: MALES AND FEMALES EMPLOYED.

State.	1938–39.	1954–55.	1955–56.	1956–57.	1957–58.	1958–59.
		Males				
New South Wales	 167,172	316,673	327,106	329,386	337,211	340,757
Victoria	 136,218	251,675	258,006	258,119	259,404	263,847
Queensland	 43,941	83,290	85,123	85,899	84,871	87,454
South Australia	 35,406	73,714	76,144	75,543	75,909	77,427
Western Australia	 18,704	42,294	43,340	42,122	42,039	41,951
Tasmania	 11,150	21,045	22,128	22,482	23,081	23,504
Australia	 412,591	788,691	811,847	813,551	822,515	834,940
		FEMALES	3.			
New South Wales	 61,609	103,137	105,975	106,983	108,591	108,761
Victoria	 65,613	94,973	97,179	97,085	97,739	99,132
Queensland	 10,169	17,003	17,350	17,527	16,973	17,299
South Australia	 7,965	15,851	16,445	16,438	16,563	16,738
Western Australia	 4,507	7,020	6,768	6,626	6,423	6,466
Tasmania	 2,652	4,407	4,934	5,188	5,003	4,920
Australia	 152,515	242,391	248,651	249,847	251,292	253,316

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 1954-55 to 1958-59:—

FACTORIES: ANNUAL PERCENTAGE INCREASES OF MALES AND FEMALES EMPLOYED.

State.	ļ	1938–39.	1954–55.	1955–56.	1956–57.	1957–58.	1958–59.
			Males	•			
New South Wales	· · ·	1.69	3.81	3.29	0.70	2.38	1.05
Victoria		0.04	4.56	2.52	0.04	0.50	1.71
Queensland		3.79	2.29	2.20	0.91	-1.20	3.04
South Australia		-2.39	4.33	3.30	-0.79	0.48	2.00
Western Australia		-0.30	4.59	2.47	-2.81	-0.20	-0.21
Tasmania		4.40	3.93	5.15	1.60	2.66	1.83
Australia	••	0.98	3.98	2.94	0.21	1.10	1.51
			FEMALE	s.			
New South Wales		1.88	5.72	2.75	0.95	1.50	0.10
Victoria		-0.03	4.85	2.32	-0.10	0.88	1.43
Queensland		3.96	1.85	2.04	1.02	-3.16	1.92
South Australia		1.98	6.77	3.75	-0.04	0.76	1.00
Western Australia		3.06		- 3.59	-2.10	-3.06	0.6
Tasmania		6.51	1.54	11.96	5.15	-3.57	-1.60
Australia		1.30	4.92	2.58	0.50	0.58	0.81

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 1954-55 to 1958-59:—

FACTORIES: MASCULINITY(a) OF PERSONS EMPLOYED.

	Үеаг.	 N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
1938–39		 271	208	432	445	415	420	271
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
1958-59		 313	266	506	463	649	478	330

(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 1958-59, there were 330 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 1958-59, these industries accounted for 78.32 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 132 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 1958-59:—

MALES AND FEMALES EMPLOYED IN PARTICULAR INDUSTRIES, 1958-59.

Class.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
		Males.					
IV. Industrial Metals, etc	185,261	122,383	34,650	46,066	18,459	8,989	415,808
VI. Textiles and Textile Goods	0.064	16 106	751	. 200	528	1 200	20.110
(not Dress)	9,064	16,186		1,280		1,309	29,118
VIII. Clothing (except Knitted)	12,085	14,028	2,255	1,651	1,129	367	31,515
IX. Food, Drink and Tobacco	26,878	26,988	23,314	7,959	5,290	3,163	93,592
All Other Classes	107,469	84,262	_26,484	_20,471	16,545	9,676	264,907
Total	340,757	263,847	87,454	77,427	41,951	23,504	834,940
		FEMALES					
IV. Industrial Metals, etc	27,195	16,732	2,362	5,886	921	542 1	53,638
VI. Textiles and Textile Goods		1,		, -,	1 1		,
(not Dress)	12,506	21,314	1.382	1.276	398	1,473	38,349
VIII. Clothing (except Knitted)	31,308	31,755	5,502	3,343	2.188	487	74,583
IX. Food, Drink and Tobacco	11,590	10,395	4,100	2,869	1,414	1,448	31,816
All Other Classes	26,162	18,936	3,953	3,364	1,545	970	54,930
Total	108,761	99,132	17,299	16,738	6,466	4,920	253,316

(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	FN	CLOTHING	INDUSTRIES.	FEMININITY(a).	1958-59.
ENVIR LOTTVIENT	ш	CLUITHING	INDUSTRIES.	ELIVITATION IN THE	1730-37.

	New	South V	/ales.		Victoria.		0	ther Stat	es.
Industry.	Males.	Fe- males.	Femininity.	Males.	Fe- males.	Feminity.	Males.	Fe- males.	Feminity.
Tailoring and Ready-made Clothing Waterproof and Oilskin	3,024	14,548	481	2,750	6,963	253	985	3,136	: 318
Clothing Dressmaking, Hemstitching Millinery	109 117 226	495 1,302 1,184	454 1,113 524	143 1,172 157	7,280 632	283 621 403	139 39	2,418 382	183 1,740 979
Shirts, Collars, Undercloth- ing Foundation Garments	502 120	4,378 1,443	872 1,203	762 237	5,859 1,516	769	166 22	1,922	1,158
Handkerchiefs, Ties and Scarves	162 452	1,019 481	629 106	81 162	355 174	438 107	24 26	115 107	479 412
Boots and Shoes (not Rubber)	3,171	351	305 101	5,462	5,769	106	1,581	1,186	254 75
Boot and Shoe Repairing Boot and Shoe Accessories Umbrellas and Walking	1,493 203	134	50	817 351	91 214	61	759 36		19
Sticks Dyeworks and Cleaning (including Renovating and	3 202	94	214		63	252	21	42	
Repairing)	2,302 45	2,238	97 758	1,772	1,970 299	111 322	1,548	1,844	119
Total	12,085	31,308	259	14,028	31,755	226	5,402	11,520	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, among 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, 1958 and 1959.—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 15,645 in June, 1959, was probably caused largely by the raising of the school leaving age in New South Wales and Tasmania and the high level of employment which has 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.

	1939.				1958.		1959.		
State.	Males.	Females.	Persons.	Males.	Females.	Persons.	Males.	Females.	Persons.
New South Wales Victoria Queensland South Australia Western Australia Tasmania	5,759 6,167 1,790 1,296 705 392	7,084 5,005 1,334 1,053 521 500	12,843 11,172 3,124 2,349 1,226 892	2,575 2,805 1,588 873 769 100	1,929 2,608 1,151 796 327 113	4,504 5,413 2,739 1,669 1,096 213	2,453 2,595 1,571 860 822 110	2,175 2,535 1,226 829 331 138	4,628 5,130 2,797 1,689 1,153 248
Australia	16,109	15,497	31,606	8,710	6,924	15,634	8,411	7,234	15,645

⁽a) Under sixteen years of age.

3. Industries Employing Child Labour.—The distribution of children employed in factories in June, 1959, 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, 1959.

Class of Industry.	Children	Employed.		nploy ee s. b)	Proportion (per cent.) of Children Employed to Total Employees. (b)	
	Males.	Females.	Males.	Females.	Males.	Females.
Industrial Metals, Machines, Convey- ances	3,757 496 552 957 714 446	825 1,389 2,946 726 75 89	407,077 28,618 26,222 87,882 52,249 16,323	54,107 38,814 72,632 29,218 3,159 3,885	0.92 1.73 2.11 1.09 1.37 2.73	1.52 3.58 4.06 2.48 2.37 2.29
Paper, Stationery, Printing, Bookbinding, etc	703 786	645 539	49,781 137,489	17,679 29,421	1.41 0.57	3.65 1.83
Total	8,411	7,234	805,641	248,915	1.04	2.91

⁽a) Under sixteen years of age.

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 1958-59 was £4,491,932,000, of which £2,485,079,000 was the value of the materials used, including containers, etc., tools replaced and repairs to plant and buildings, and £164,252,000 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, £1,842,601,000, 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. 185). 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 1958-59 was £970,553,000. This figure, which excludes amounts drawn by working proprietors, was the highest ever recorded and shows an increase of £41,263,000 or 4.44 per cent. on that for the previous year.

⁽b) Excludes working proprietors.

2. Salaries and Wages Paid.—(i) In Classes of Industry, 1958-59. 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, 1958-59. (£'000.)

Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metallifer-							
ous Mine and Quarry Pro-	8,555	6,521	1,829	2,001	1,275	757	20,938
II. Bricks, Pottery, Glass, etc	11,795	5,696	1,148	2,055	1,230	344	22,268
III. Chemicals, Dyes, Explosives,			[*	,			
Paints, Oils, Grease	23,046	18,080	1,668	3,009	2,704	924	49,431
IV. Industrial Metals, Machines, Conveyances	208,183	133,215	30,221	47,755	15,606	9,249	444,229
V. Precious Metals, Jewellery,	200,103	155,215	30,221	47,733	13,000	9,249	711,220
Plate	1,909	1,815	201	335	145	14	4,419
VI. Textiles and Textile Goods	1.045	20.200					50.000
(not Dress) VII. Skins and Leather (not Cloth-	16,847	29,398	1,325	2,010	722	2,080	52,382
ing or Footwear)	4,669	3,896	905	1,074	500	53	11,097
VIII. Clothing (except Knitted)	27,465	30,655	4,128	3,036	1,689	503	67,476
IX. Food, Drink and Tobacco	32,932	32,545	25,206	8,874	5,347	3,696	108,600
X. Sawmills, Joinery, Boxes, etc.,	17,091	12,944	0 107	4 277	4 450	2.005	40.703
Wood Turning and Carving XI. Furniture of Wood, Bedding,	17,091	12,544	8,107	4,277	4,458	2,905	49,782
etc	7,626	5,225	1,966	1,456	889	288	17,450
XII. Paper, Stationery, Printing,							,
Bookbinding, etc	27,993	22,626	4,971	3,651	2,280	4,359	65,880
XIII. Rubber XIV. Musical Instruments	7,844	7,254 220	1,412	1,292	215 25	147	18,164 927
XV. Musical Instruments	9,128	8,599	410	635	287	142	19,201
Total, Classes I. to XV.	405,705	318,689	83,536	81,481	37,372	25,461	952,244
XVI. Heat, Light and Power	7,310	5,647	1,961	1,664	1,360	367	18,309
Grand Total	413,015	324,336	85,497	83,145	38,732	25,828	970,553

(ii) Totals and Averages, 1938-39 and 1954-55 to 1958-59. 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.
		тот	al Amou	NT PAID	(£'000).			
1938–39		 44,606	36,027	10,887	8,169	4,574	2,480	106,743
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
1958-59	••	 413,015	324,336	85,497	83,145	38,732	25,828	970,553
		Av	erage Pei	R EMPLOY	TEE (£.)			
1938–39		 201.77	185.64	210.78	195.57	207.90	188.31	196.31
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
1958-59		 952.82	928.60	856.33	911.89	847.81	942.94	927.13

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 1958-59 were paid in New South Wales, Tasmania 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 1958-59 reached a record level of slightly over £927.

(iii) Total and Average Earnings of Males and Females, 1938-39 and 1954-55 to 1958-59. 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.
				Maleș.				
			TOTAL A	MOUNT PAI	D (£'000).			
1938-39		38,272	29.006	9,920	7,488	4,129	2,234	91,049
954-55		274,467	213,377	61,125	62,942	31,748	16,736	660,39
955-56	••	302,880	234,784	64,918	68,213	34,236	19,146	724,17
956-57		318,612	241,587	69,873	69,645	33,895	20,878	754,49
957-58		334,245	253,342	70,954	71,153	34,938	22,516	787,14
958-59		348,302	265,615	77,049	74,268	35,647	23,138	824,01
			Average P	er Male E	MPLOYEE (£)	١.		
1020 20		220 24	224 47 1	238.59	220.05	225 40	212.09	221 0
938-39 954-55	• • •	239.24 906.61	224.47 891.40	773.47	220.95 883.13	235.49 797.80	833.05	231.84 877.84
955-56	••	967.45	955.00	802.89	925.47	839.62	904.78	933.9
955-50 956-57	• •	1,010.17	981.79	857.48	953.42	856.63	970.11	970.9
957 - 58	••	1,010.17	1.023.48	881.32	970.33	884.66	1,018.45	1,001.2
958-59	::	1.065.21	1.052.69	926.77	992.28	905.12	1,026.66	1.031.0

FEMALES.

TOTAL AMOUNT PAID (£'000).

1938-39		6,334	7,021	967	681	445	246	15,694
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 1957–58	••	59,720 62,447	55,020 57,198	7,907 8,004	8,174 8,691	3,021 2,997	2,758 2,805	136,600 142,142
1958-59	::	64,713	58,721	8,448	8,877	3,085	2,690	146,534

AVERAGE PER FEMALE EMPLOYEE (£).

1938-39		103.66	108.25	96.00	86.44	99.58	93.19	103.92
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
1958-59	!	607.71	605.66	505.75	543.49	489.60	554.24	591.74

(iv) Managers, Clerical Staff and Other Employees. A further analysis of salaries and wages paid is given in the following table for 1958-59 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, 1958-59.

Class of Industry.	Managers Staff, C Draftsn	hemists,	All Other Employee		
	Males.	Females.	Males.	Females.	
	£'000.	£'000.	£'000.	£'000.	
I. Treatment of Non-metalliferous Mine and Quarry			!		
Products	2,772	475	17,571	120	
II. Bricks, Pottery, Glass, etc	2,012	447	19,085	725	
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease	11,358	2,444	31,519	4,110	
IV. Industrial Metals, Machines, Conveyances	66,346	13,936	345,547	18,399	
V. Precious Metals, Jewellery, Plate	535	170	3,270	445	
VI. Textiles and Textile Goods (not Dress)	5,178		24,514	20,506	
VII. Skins and Leather (not Clothing or Footwear)	1,327	264	7,932	1,575	
VIII. Clothing (except Knitted)	4,983	2,612	20,894	38,987	
IX. Food, Drink and Tobacco	14,793	4,092	76,037	13,677	
X. Sawmills, Joinery, Boxes, etc., Wood Turning and					
Carving	5,229	1,128	42,799	624	
XI. Furniture of Wood, Bedding, etc	1,816	590	13,375	1,669	
XII. Paper, Stationery, Printing, Bookbinding, etc	8,779	2,848	46,714	7,539	
XIII. Rubber	2,691	606	13,209	1,658	
XIV. Musical Instruments	117	22	713	76	
XV. Miscellaneous Products	2,909	890	11,784	3,618	
Total, Classes I. to XV	130,845	32,708	674,963	113,728	
XVI. Heat, Light and Power	1,808	72	16,403	26	
Grand Total	132,653	32,780	691,366	113,754	
Average paid per employee	£ 1,403.46	£ 644.31	£ 981.10	£ 578.56	

3. Power, Fuel and Light Used.—(i) In Classes of Industry, 1958-59. The expenditure by factories on power, fuel and light, including the value of lubricants and water, is of considerable importance; in 1958-59 it amounted to a new high level of £164,252,000 an increase of £5,454,000 as compared with the previous year and nearly eleven 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), 1958-59. (£'000.)

	<u>_</u>	(= 0000)					
Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metallifer-							
ous Mine and Quarry Pro-	2,817	2,235	870	960	508	369	7,759
II. Bricks, Pottery, Glass, etc.	3,972	2,043	465	623		165	7,781
III. Chemicals, Dyes, Explosives,		•	1	i	1		·
Paints, Oils, Grease	6,446	6,384	367	826	2,047	410	16,480
IV. Industrial Metals, Machines, Conveyances	31,611	7,742	2,148	5,585	1,102	2,030	50:218
V. Precious Metals, Jewellery,	31,011	1,142	2,140	3,363	1,102	2,030	50,210
Plate	146	.143	12	40	11	1	353
VI. Textiles and Textile Goods		0.104			50	241	4.510
(not Dress) VII. Skins and Leather (not Cloth-	1,494	2,424	72	220	. 59	241	4,510
ing or Footwear)	414	495	73	147	73	5	1,207
VIII. Clothing (except Knitted)	907	966	17.5	130		41	2,303
IX. Food, Drink and Tobacco	6,094	5,951	3,012	1,359	1,016	501	17,933
X. Sawmills, Joinery, Boxes, etc.,	11.505	700	507	27.1	341	316	2 022
Wood Turning and Carving XI. Furniture of Wood, Bedding,	1,525	782	597	271	341	310	3,832
e c	196	:133	49	42	23	6	449
XII. Paper, Stationery, Printing,					i - I		
Bookbinding, etc	1,429	1,928	268	315	100	1,331	5,371
XIII. Rubber	1,063	1,166	178	145		21	2,601
XIV. Musical Instruments XV. Miscellaneous Products	39 614	606	13	(b) 56	(b)	5	1,310
Total, Classes 1, to XV.	58,767	33,009		10;719		-5,442	122,158
XVI. Heat, Light and Power	17,508	10,368	6,664		3,666	-3,712	42,094
areat, Light and rower	17,500	10,300	0,004	3,671	1-5,000		74,094
Grand Total	76,275	43,377	14,964	14,590	9,587	5,459	164,252

⁽a) Includes value of lubricants and water.

⁽b) Less than £500.

(ii) Values of Items, 1958-59. 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), 1958-59.

(£'000.)

Particulars.		N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Coal, Black		20,707	3,009	8,266	(b) 3,971	2,537	1,290	39,779
,, Brown			7,582					7,582
Brown Coal Briquettes			1,464		١			1,464
Coke	!	12,555	842	481	2,949	213	328	17,368
Wood		453	559	383	372	378	199	2,345
Fuel Oil		9.746	11,272	1.274	2,321	3,533	721	28,867
Tar (Fuel)		947	164	19	95	22	22	1,270
Electricity		21,856	13,910	3,419	3,713.	2,053	2,563	47,514
Gas		3,730	1,120	187	227	87	41	5,391
Other (Charcoal, etc.)		2,195	1.061	150	308	275	113	4,102
Motor		2,761	1,543	418	397	260	91	5,470
Lubricating Oils	::	1,325	851	367	237	229	ģi	3,100
Total		76,275	43,377	14,964	14,590	9,587	5,459	164,252

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

(iii) Quantities of Fuel Used, 1958-59. The following table shows the quantities of fuel used in factories in each State during the year:—

FACTORIES: QUANTITIES OF FUEL USED, 1958-59.

Particulars.	Unit.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Coal, Black	'000 tons	5,983	483	1,820	(a)1,119	582	265	10,252
., Brown	۱,,		10,582					10,582
Brown Coal Briquettes	,,	١	305		١	!		305
Coke	,,	2,097	86	43	309	. 19	18	2,572
Wood		204	275	214	199	281	89	1,262
Fuel Oil	'000 gals.	169,497	204,971	14,051	39,953	64,861	9,537	502,870
Tar (Fuel)	,,	31,908	3,018	273	2,247	609 !	353	38,408

⁽a) Includes 651,000 tons of Leigh Creek coal.

(iv) Total Value, 1938-39 and 1954-55 to 1958-59. 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 60,925 66,469 71,445 73,452 76,275	4,000 31,767 34,598 40,381 42,762 43,377	1,423 11,620 11,980 13,130 13,152 14,964	1,018 12,897 12,830 14,130 14,933 14,590	1,169 8,046 9,053 9,225 9,425 9,587	438 3,127 4,097 4,799 5,074 5,459	15,700 128,382 139,027 153,110 158,798 164,252

⁽a) Includes value of lubricants and water.

4. Value of Materials Used.—(i) In Classes of Industry, 1958-59. 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 1958-59 reached £2,485,079,000, representing.

⁽b) Includes £1,308,000 the value of 651,000 tons

55.3 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, 1958-59.(a)

(£'000.)

Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metallifer-				!			
ous Mine and Quarry Pro-							
ducts	30,561	13,801	4,339	4,617	2,605	1,276	57,199
II. Bricks, Pottery, Glass, etc	10,892	5,254	1,002	2,381	, 774	232	20,535
III. Chemicals, Dyes, Explosives,					ł l		
Paints, Oils, Grease	127,282	100,165	9,266	12,654	34,501	2,400	286,268
IV. Industrial Metals, Machines,	l		i	1			
Conveyances	481,180	213,429	53,850	93,917	22,293	16,914	881,583
V. Precious Metals, Jewellery,	į i				!		1
Plate	1,859	1,984	95	223	75 !	9	4,245
VI. Textiles and Textile Goods	,			1	1		1
(not Dress)	38,243	67,531	4,332	3,989	3,474	4,767	122,336
VII. Skins and Leather (not Cloth-	1		1	I .	. 1		
ing or Footwear)	12,877	10,649	2,713	4,099	974	224	31,536
VIII. Clothing (except Knitted)	46,899	49,765	4,962	3,531	2,009	440	107,606
IX. Food, Drink and Tobacco	170,412	182,920	164,182	38,417	26,827	16,499	599,257
X. Sawmills, Joinery, Boxes, etc.,	1 1		ĺ .	1	· 1		1
Wood Turning and Carving	39,146	27,430	16,841	10,435	7,409	6,431	107,692
XI. Furniture of Wood, Bedding,			1	i i	1 1	,	
etc	16,110	10,134	4,100	2,789	1,882	536	35,551
XII. Paper, Stationery, Printing,	1	1	,,,,,,	, , ,]		1 '
Bookbinding, etc.	52,893	51,224	8,725	6.320	3.330	8.140	130,632
XIII. Rubber	18,055		3,531	1,864	366	205	41.897
XIV. Musical Instruments	945		29	1,709	13		1,222
XV. Miscellaneous Products	15,815	19,929	504	1,064	385	83	37,780
Total, Classes 1. to XV.	1,063,169	772,317	278,471	186,309	106,917	58,156	2,465,339
XVI. Heat, Light and Power	7,693	6,399	2,286	2,049	936	377	19,740
Grand Total	1,070,862	778,716	280,757	188,358	107,853	58,533	2,485.079

⁽a) See para. 1 of this section, p. 179.

(ii) Total Amount, 1938-39 and 1954-55 to 1958-59. 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
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
1958-59	 1.070.862	778,716	280.757	188.358	107.853	58,533	2,485,079

⁽a) See para. 1 of this section, p. 179.

5. Value of Output.—(i) In Classes of Industry, 1958-59. The value of the output of factories in the various classes in each State in 1958-59 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, 1958-59.(a)

(£'000.)

Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metallifer-							
ous Mine and Quarry Pro-	50.000	00.244	0.010		!	2.020	100.074
ducts	50,900		9,218	10,288		3,030	
II. Bricks, Pottery, Glass, etc.	34,819	16,946	3,718	6,862	3,456	964	66,765
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease	209,516	161,713	14,668	22,251	50,058	5,738	463,944
IV. Industrial Metals, Machines,	209,310	101,713	14,000	22,231	30,036	3,730	403,544
Conveyances	872,213	435,371	105,256	171,026	48,333	25 206	1,667,585
V. Precious Metals, Jewellery,	0/2,213	433,371	103,230	171,020	40,333	33,360	1,007,303
Plate	5,276	5,290	428	785	365	36	12,180
VI. Textiles and Textile Goods	3,270	3,230	120	,05	305	50	12,100
(not Dress)	70,793	123,507	6,679	7,891	4,997	8,605	222,472
VII. Skins and Leather (not Cloth-	,	222,00	-,	.,	,,,,,,	5,555	,
ing or Footwear)	20,594	17,345	4,480	5.979	1,859	307	50,564
VIII. Clothing (except Knitted)	93,549		11,674	8,406		1,346	220,653
IX. Food, Drink and Tobacco	258,603	259,774	214,036	55,789		24,359	851,752
X. Sawmills, Joinery, Boxes, etc.,		·		-	'	•	
Wood Turning and Carving	72,237	50,860	31,154	17,763	15,442	12,212	199,668
XL Furniture of Wood, Bedding,)		
etc	29,155	19,837	7,508	5,339	3,407	1,017	66,263
XII. Paper, Stationery, Printing,					[
Bookbinding, etc	108,301					20,391	
XIII. Rubber	30,497				816	508	
XIV. Musical Instruments	2,578	596		42			3,350
XV. Miscellaneous Products	34,160	37,439	1,146	2,379	919	277	76,320
Total, Classes I. to XV.	1,893,191	1,392,425	435,349	332,525	187,770	114,176	4,355,436
XVI. Heat, Light and Power	59,261	38,616	15,837	10,233	8,432	4,117	136,496
Grand Total	1,952,452	1,431,041	451,186	342,758	196,202	118,293	4,491,932

(a) See para. 1 of this section, p. 179.

(ii) Total, 1938-39 and 1954-55 to 1958-59. 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 1954-55 1955-56 1956-57 1957-58 1958-59	 218,420 1,446,669 1,595,137 1,726,637 1,848,242 1,952,452	152,967 1,100,656 1,201,392 1,276,141 1,377,697 1,431,041	63,321 356,017 371,644 396,504 405,757 451,186	35,005 293,061 316,962 325,105 332,098 342,758	19,549 149,585 175,146 187,636 196,262	11,158 88,601 103,779 110,390 113,826 118,293	500,420 3,434,589 3,764,060 4,022,413 4,273,882 4,491,932

(a) See para. 1 of this section p. 179.

6. Value of Production.—(i) In Classes of Industry, 1958-59. 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. In 1958-59, it amounted to £1,843 million to which Class IV., Industrial Metals, etc., with £736 million made the greatest contribution. The net value of production in 1958-59 showed an increase of £114 million (6.60 per cent.) over the figure for 1957-58 and £1,639 million over the value of production recorded in 1938-39.

The following table shows the value of production in 1958-59 in each State for the various classes of industry:—

FACTORIES: VALUE OF PRODUCTION, 1958-59.(a) (£'000.)

	Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I.	Treatment of Non-metallifer-							
	ous Mine and Quarry Pro-	17,522	13,305	4,009	4,711	3,041	1.385	43,973
H.	Bricks, Pottery, Glass, etc.	19,955	9,649	2,251	3,858		567	38,449
	Chemicals, Dyes, Explosives,	1 1	,	•		· 1		
	Paints, Oils, Grease	75,788	55,164	5,035	8,771	13,510	2,928	161,196
IV.	Industrial Metals, Machines,		211200	40.050	#4 FA4	24.000	4.5.440	
37	Conveyances	359,422	214,200	49,258	71,524	24,938	16,442	735,784
٧.	Precious Metals, Jewellery,	3,271	3,163	321	522	279	26	7,582
VI.	Textiles and Textile Goods] 3,2,1	3,103	321	322	217	20	1,302
	(not Dress)	31,056	53,552	2,275	3,682	1,464	3,597	95,626
VII.	Skins and Leather (not Cloth-	'				_		,
	ing or Footwear)	7,303	6,201	1,694			78	17,821
	Clothing (except Knitted)	45,743	50,081	6,537			865	
	Food, Drink and Tobacco	82,097	70,903	46,842	16,013	11,348	7,359	234,562
X.	Sawmills, Joinery, Boxes, etc.,							
	Wood Turning and Carving	31,566	22,648	13,716	7,057	7,692	5,465	88,144
XI.	Furniture of Wood, Bedding,							
	etc	12,849	9,570	3,359	2,508	1,502	475	30,263
XII.	Paper, Stationery, Printing,	(22.000	45.060	0.570		4 40-	40.000	
25447	Bookbinding, etc	53,979	45,860				10,920	
	Rubber	11,379	15,540				282	32,805
	Musical Instruments	1,594	359	54			***	2,077
XV.	Miscellaneous Products	17,731	16,904				189	
	Total, Classes I. to XV.	771,255	587,099	148,578	135,497	74,932	50,578	1,767,939
XVI.	Heat, Light and Power	34,060	21,849	6,887	4,313	.3,830	3,723	74,662
	Grand Total	805,315	608,948	155,465	139,810	78,762	54,301	1,842,601

(a) See para. 1 of this section, p. 179.

⁽ii) Total and Averages, 1938-39 and 1954-55 to 1958-59. 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 £185.14 in 1958-59. For value per person employed, the increase was not quite so pronounced (from £360 per head in 1938-39 to £1,693 in 1958-59).

FACTORIES: VALUE OF PRODUCTION.(a)

Year.	N.S.W.	Vic. Q'	land. S. Aust.	W. Aust.	Tas.	Aust.
	· · · · · · · · · · · · · · · · · · ·	VALUE	. (£'000.)			
1953–54 1954–55 1955–56 1956–57 1957–58	90,266 520,043 583,127 644,086 706,799 757,862 805,315	408,314 1 452,223 1 491,948 1 528,031 1 566,476 1	19,302 13,678 100,255 100,221 20,061 111,028 28,080 120,936 38,400 126,766 43,958 133,285 55,465 139,810	55,147 60,956 69,733 73,442 75,312	5,399 33,065 38,114 45,931 48,682 51,830 54,301	203,417 1,227,045 1,365,509 1,500,714 1,622,120 1,728,723 1,842,601
		PER PERSON	EMPLOYED. (£.	.)		
1953–54 1954–55 1955–56 1956–57 1957–58	395 1,292 1,389 1,487 1,620 1,700 1,792	327 1,233 1,305 1,385 1,487 1,586 1,678	357 315 1,124 1,172 1,197 1,240 1,250 1,306 1,343 1,378 1,414 1,441 1,484 1,485	1,162 1,236 1,392 1,507 1,554	391 1,345 1,497 1,697 1,759 1,846 1,910	360 1,240 1,324 1,415 1,525 1,610 1,693
	1	PER HEAD OF	Population. ((£.)		
1953-54	33.00 152.70 168.56 182.75 196.99 207.16 216.14	209.25	19.14 22.98 84.78 127.50 90.59 137.50 94.69 144.93 00.26 147.17 102.59 150.44 109.02 153.93	87.44 93.93 104.23 107.29 107.81	22.72 106.85 121.78 143.90 149.27 155.13 159.11	29.34 137.86 150.22 161.10 170.12 178.45 185.14

⁽a) See para. 1 of this section, p. 179.

§ 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 1958-59:—

FACTORIES: VALUE OF LAND, BUILDINGS, PLANT AND MACHINERY(a), 1958-59. (£'000.)

Value of-	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Land and buildings Plant and machinery	400,273 459,678	309,833 337,107	68,995 112,528	66,278 84,749	40,690 66,097	61,830 48,226	947,899
Total	859,951	646,940	181,523	151,027	106,787	110,056	2,056,284

⁽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. Consequently, the totals shown in the table 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 1954-55 to 1958-59:—

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

Class of Industry.	1938–39.	1954–55.	1955–56.	1956–57.	1957–58.	1958-59.
I. Treatment of Non-metalliferous						
Mine and Quarry Products	2,779	9,103	11,228	12,686	13,714	15,175
II. Bricks, Pottery, Glass, etc	2,954	9,849	11,301	14,498	14,986	16,580
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease IV. Industrial Metals, Machines,	7,377	44,658	61,863	67,719	70,090	76,645
Conveyances	34,841	184,934	218,667	252,837	300,343	336,282
V. Precious Metals, Jewellery, Plate	633	2,888	3,233	3,525	3,777	3,845
VI. Textiles and Textile Goods (not	""	_,,,,,	3,233	3,525	3,	3,013
Dress)	6,000	29,651	31,931	37.010	40,199	46.671
VII. Skins and Leather (not Clothing	,,,,,,	,	,	1 7.,010	,	.0,0.2
or Footwear)	- 2,096	6,452	6,288	7,074	7,221	7,702
VIII. Clothing (except Knitted)	10,624	31,163	33,920	37,203	39,855	43,203
IX. Food, Drink and Tobacco	33,273	94,070	108,335	118,413	129,073	138,625
X. Sawmills, Joinery, Boxes, etc.,		, ,	· ·	, , , , , , ,	·	,
Wood Turning and Carving	4,107	21,225	23,141	25,347	28,464	30,656
XI. Furniture of Wood, Bedding, etc.	2,533	8,981	9,915	11,223	12,992	14,677
XII. Paper, Stationery, Printing, Book-				,	1	
binding, etc	10,639	34,156	40,256	44,912	52,854	61,059
XIII. Rubber	1,676	7,430	8,581	9,563	11,688	12,821
XIV. Musical Instruments	105	528	621	987	636	730
XV. Miscellaneous Products	1,433	8,299	9,946	11,491	12,922	14,688
Total, Classes I. to XV	121,070	493,387	579,226	654,488	738,814	819,359
XVI. Heat, Light and Power	9,850	62,609	74,348	105,199	110,222	128,540
Grand Total	130,920	555,996	653,574	759,687	849,036	947,899

⁽a) Includes estimated value of rented premises.

(ii) In Classes of Industry in States, 1958-59. The following table gives particulars of the various classes of industry in each State:—

FACTORIES: VALUE OF LAND AND BUILDINGS(a), 1958-59. (£'000.)

			(2 000.)					
•	Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
	atment of Non-metallifer- us Mine and Quarry Pro-							
d II. Brig	ucts	5,214 9,024	5,212 4,051	1,102 913	1,450 1,057	1,492 1,251	705 284	15,175 16,580
P	micals, Dyes, Explosives, aints, Oils, Grease ustrial Metals, Machines,	36,452	29,873	1,506	2,893	4,835	1,086	76,645
С	onveyances	161,700	106,642	18,121	27,494	12,659	9,666	336,282
P	late tiles and Textile Goods	1,600	1,582	128	332	175	28	3,845
(r	not Dress)	15,157	26,671	886	1,819	662	1,476	46,671
in	ns and Leather (not Clothing or Footwear)	3,286	3,001	360	648	296	111	7,702
IX. Foo	thing (except Knitted) od, Drink and Tobacco	17,620 44,774	18,609 46,878	2,501 22,665	2,027 10,793	1,699 8,123	747 5,392	43,203 138,625
V	mills, Joinery, Boxes, etc., Vood Turning and Carving	12,132	8,379	2,936	3,841	1,826	1,542	30,656
et	niture of Wood, Bedding,	6,015	4,818	1,632	1,147	799	266	14,677
B	er, Stationery, Printing, ookbinding, etc.	26,365	19,696	4,273	3,230	1,794	5,701	61,059
XIII. Rut	ober sical Instruments	4,872 406	4,979 228	1,383	980	386	221	12,821
XV. Mis	cellaneous Products	7,047	6,378	340	458	350	115	14,688
XVI. Hea	Total, Classes I. to XV at, Light and Power	351,664 48,609	286,997 22,836	58,773 10,222	58,206 8,072	36,379 4,311	27,340 34,490	819,359 128,540
	Grand Total	400,273	309,833	68,995	66,278	40,690	61,830	947,899

⁽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 1954-55 to 1958-59:—

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

Year.		N.S.W.	Víc.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
1938–39	••	57,353	42,026	12,299	8,711	6,814	3,717	130,920
1954–55		221,519	186,324	46,187	42,133	30,230	29,603	555,996
1955–56	•••	260,268	212,913	52,602	48,353	32,859	46,579	653,574
1956–57		303,981	249,716	58,654	55,343	35,520	56,473	759,687
1957–58		350,169	277,557	63,927	61,084	36,846	59,453	849,036
1958–59		400,273	309,833	68,995	66,278	40,690	61,830	947,899

(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 £947.9 million in 1958-59.

3. Value of Plant and Machinery.—(i) Total for Australia, 1938-39 and 1954-55 to 1958-59. 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.	1954–55.	1955–56.	1956–57.	1957–58.	1958–59.
I. Treatment of Non-metalliferous Mine and Quarry Products	7,028	20,625	23,512	27,351	30,623	35,099
II. Bricks, Pottery, Glass, etc	3,145	11,000	12,319	13,138	13,443	14,564
III. Chemicals, Dyes, Explosives,		· ·	'	'	1	
Paints, Oils, Grease	6,754	97,508	125,016	127,732	137,520	153,820
IV. Industrial Metals, Machines, Conveyances	33,038	168,651	202,286	251,161	289,969	319,665
V. Precious Metals, Jewellery, Plate	197	1,094	1,219	1,374	1,388	1,348
VI. Textiles and Textile Goods (not Dress)	6,658	20.650	21 155	32,570	36,040	41,380
VII. Skins and Leather (not Clothing	0,038	29,658	31,155	32,370	30,040	41,360
or Footwear)	973	4,153	4,225	4,332	4,240	4,348
VIII. Clothing (except Knitted)	2,557	13,452	14,340	15,699	15,621	16,407
IX. Food, Drink and Tobacco	32,101	101,700	115,904	124,406	131,708	138,940
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving.	3,907	21,827	23,626	25,045	27,043	29,121
XI. Furniture of Wood, Bedding, etc.	728	3,186	3,388	3,632	3,802	4,130
XII. Paper, Stationery, Printing,						
Bookbinding, etc	9,188	46,129	51,405	53,755	59,509	63,757
XIII. Rubber	1,368	6,843	8,971	8,626	10,234	10,333
XIV. Musical Instruments	12	444	509	682	429	426
XV. Miscellaneous Products	758	6,614	7,459	8,515	10,417	11,077
Total, Classes I. to XV	108,412	532,884	625,334	698,018	771,986	844,415
XVI. Heat, Light and Power	35,250	165,408	172,502	219,019	240,749	263,970
Grand Total	143,662	698,292	797,835	917,037	1,012,735	1,108,385

(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 1958-59 of £95.7 million over 1957-58 extended over practically all industrial classes. The greatest increase occurred in Class IV., Industrial Metals, Machines, Conveyances.

(ii) Totals in each State. The following table shows the value of plant and machinery in each State during the years 1938-39 and 1954-55 to 1958-59. During 1958-59, increases occurred in all States, New South Wales showing the largest increase, £43.8 million.

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

Year.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
1938–39 1954–55 1955–56 1956–57 1957–58	62,693 258,596 298,913 363,310 415,838 459,678	38,627 226,347 252,590 283,868 302,263 337,107	18,095 76,367 85,777 89,904 104,598 112,528	9,750- 52,145- 63,596- 71,847- 79,336- 84,749	8,095 54,958 56,534 63,272 63,840 66,097	6,402 29,879 40,425 44,836 46,860 48,226	143,662 698,292 797,835 917,037 1,012,735 1,108,385

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

(iii) Value according to Class of Industry, 1958-59. The following table shows the value of plant and machinery used in factories in each State during 1958-59 according to class of industry:—

FACTORIES: VALUE OF PLANT AND MACHINERY(a), 1958-59. (£'000.)

	Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I.	Treatment of Non-metallifer-							
	ous Mine and Quarry Pro-	17,194	8,315	3,099	3,700	2027	754	25.000
11	Bricks, Pottery, Glass, etc	8,131	3,286	947	920	2,037 1,095	185	
	Chemicals, Dyes, Explosives,	0,131	3,200	747	120	1,095	103	14,364
	Paints, Oils, Grease	61,686	58,002	2,492	5.611	23,646	2,383	153,820
IV.	Industrial Metals, Machines,	1	1	1	! '	,6.6	_,000	155,020
	Conveyances	177,655	83,490	11,692	26,858	9,309	10,661	319,665
V.	Precious Metals, Jewellery,		1	1		1		
	Plate	586	540	40	128	46	8	1,348
VI.	Textiles and Textile Goods (not Dress)	13,587	21,696	982	2 204	407	0.404	1
VII	Skins and Leather (not Cloth-	13,367	21,090	982	2,204	427	2,484	41,380
V 11.	ing or Footwear)	1,748	1,489	376	507	199	29	4,348
VIII.	Clothing (except Knitted)	5,899	7,501	1,177	988	597	245	16,407
ÎX.	Food, Drink and Tobacco	38,643	39,848	39,428	9,671	6,241	5,109	138,940
	Sawmills, Joinery, Boxes, etc.,	1	.,-	},	, , , , ,	} -,	0,100	130,240
	Wood Turning and Carving	8,905	6,684	5,042	3,632	2,405	2,453	29,121
XI.	Furniture of Wood, Bedding,					! 1		
	_ etc	1,591	1,270	(496	442	263	68	4,130
XII.	Paper, Stationery, Printing,	21.602	22.066	1	2.250			
VIII	Bookbinding, etc	21,682 4,007	22,065	6,381	3,250	1,710	8,669	63,757
	N.C I Treasure and a	340	4,529	843	578	249	127	
	Musical Instruments	5,285	5.064	174	398	119		426
21.	Wildelianoous Froducts				376			11,077
	Total, Classes I. to XV.	366,939	263,851	73,174	58,893	48,346	33,212	844,415
XVI.	Heat, Light and Power	92,739	73,256	39,354	25,856	17.751	15,014	263,970
•	. , 5		1					205,570
	Grand Total	459,678	337,107	112,528	84,749	66,097	48,226	1,108,385

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

4. Depreciation of Land and Buildings and Plant and Machinery, 1958-59.—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, 1958-59.

(£'000.)

Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metallifer-							
ous Mine and Quarry Pro-	2 222	0.0		1		••	
ducts	2,023	912	375	440	199	88	4,037
II. Bricks, Pottery, Glass, etc.	1,050	504	127	148	127	28	1,984
III. Chemicals, Dyes, Explosives,		5 070	202		1 /		
Paints, Oils, Grease	6,464	5,979	292	731	2,291	566	16,323
IV. Industrial Metals, Machines,	10.001	0.400	1 205	1 2	1	004	
Conveyances	18,201	8,480	1,285	3,561	915	994	33,436
V. Precious Metals, Jewellery,					1 -1		
Plate	. 58	51	5	13	5	1	133
VI. Textiles and Textile Goods		2 726	100				
(not Dress)	1,381	2,725	108	166	58	305	4,743
VII. Skins and Leather (not Cloth-	1		3.0		l i		l
ing or Footwear)	166		36	28	27	. 3	396
VIII. Clothing (except Knitted)	670	624	116	92	62	29	1,593
IX. Food, Drink and Tobacco	4,180	4,819	3,925	1,091	704	569	15,288
X. Sawmills, Joinery, Boxes, etc.,	000	720		200			
Wood Turning and Carving	898	720	559	328	249	286	3,040
XI. Furniture of Wood, Bedding,			٠,			_	
etc	170	116	60	46	28	7	427
XII. Paper, Stationery, Printing,	2 2 4 7	2255			1		
Bookbinding, etc	2,367	3,056	803	369	221	886	7,702
XIII. Rubber	1,159	1,044	166	153	42	21	2,585
XIV. Musical Instruments	45	. 6	1 1	1	[53
XV. Miscellaneous Products	659	812	20	46	16	6	1,559
Total, Classes 1. to XV.	39,491	29,984	7,878	7,213	4,944	3,789	93,299
XVI. Heat, Light and Power	8,444	3,223	2,180	940	1,033	633	16,453
Grand Total	47,935	33,207	10,058	8,153	5,977	4,422	109,752

5. Land and Buildings, Plant and Machinery—Values, Additions and Replacements, Depreciation, 1938-39 and 1954-55 to 1958-59.—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.)

			lues as at une.(a)		nd Replace- ing year.(a)	Depreciation allowed during year.		
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	
1954–55		555,996	698,292	58,311	170,762	6,568	49,916	
1955-56		653,574	797,835	82,808	156,535	8,209	60,508	
1956-57		759,687	917,037	87,441	195,670	9,514	71,119	
1957-58		849,036	1,012,735	75,762	176,903	10,899	85,818	
1958-59		947,899	1,108,385	94,823	197,566	13,000	96,752	

(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, 1957 to 1959. A more complete list, together with values, where available, is published in the bulletin Secondary Industries.

QUANTITY OF PRINCIPAL ARTICLES PRODUCED IN FACTORIES: AUSTRALIA.

					1	1		1
	Art	icle.			Unit of Quantity.	1956–57.	1957–58.	1958-59.
Acid—							+	
Nitric					Ton	15 520	14,837	15,331
Sulphuric	••	••		• •	į.	15,520 878,763	991,624	986,193
Aerated and	~arbonat	od Water	, • •	• •	'000 gals.	61,242	69,165	69,285
Asbestos Cen				• •	'000 sq. yds.	25,444	26,026	26,846
Aspesios Cen	ient Bunc	ing Sheet	.3	••	000 sq. yus.	23,444	20,020	20,040
Bacon and H. Bags, Leather	, Fibre, e	tc.—	••	• •	'000 lb.	71,156	71,671	74,815
Handbags-					No.	740 575	972 004	702.072
Leather Plastic	• •	• •		• •	i	748,571	873,004	792,973
Other	••	• •		• •	**	922,068 103,308	1,042,201	1,401,958 94,964
School Bag	• • •	• •		• •	"	80,961	139,326	129 622
Suitcases (a		• •		• •	,,,		1,276,218	128,633
Trunks	,	••		• •	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1,203,479 1,256	1,270,218	1,319,850
All other (v	• •		• •	,,,	226.605	693,011	3,080
Baking Powd		• •		• •	16.	326,685	585,096	1,068,481
Bath Heaters-	51	• •	• •	• •	10.	650,272	363,090	585,156
Electric					No.	14,698	12.415	12 522
Gas	••	••		• •		25,243	12,415 26,234	12,533 23,190
Solid Fuel	••	• •		• •	,,	33,601	20,234	30,185
Dathing Suite	••			• •	Doz.	33,691	31,581 180,941	156,000
Bathing Suits Baths, C.I.P.F	,	••		• •	No.	165,758	90,241	156,082
Daths, C.I.F.E	Call Term			•	140.	88,959	88,206	87,954
Batteries, Wet Auto (S.L.I	Cen Typ	-			No.	١	C 624 672	640 246
Auto (S.L.1	12 Vol	la Ita		•	140.	Not	634,672	648,246
Radio, etc.		113		•	No. of 2 Volt	collected	618,139	664,172
Radio, etc.	• •	••		•	Cells	in this	233,701	233,560
Traction						dissection	29,591	31,068
Other	••	••		•	**	dissection	15,483	27,899
Beer (excludin	a Waste 1	Reer)		•	'000 gals.	220,728	226,449	223,597
Biscuits	5 · · · usto			•	'000 Ть.	162,536	165,529	172,340
Blankets	••			•	'000	1,678	1,855	1,705
Bran (Wheater	·i.	••		•	Ton (2,000 lb.)	287,653	230,416	228,461
Brassieres	.,	• •		•	Doz.	423,441	477,600	494,541
Bricks, Clay				•	7000	805,069	877,905	940,198
Brooms				:	Gross	21,003	21,413	21 227
Brushes (c)				:		78,753	99,565	21,227 106,777
Butter				:	Ton	189,841	172,918	190,923
~								,
Candles	•••	••		٠	Cwt.	10,354	7,444	8,588
Cardigans, Sw		c.	· · ·	•	Doz.	1,149,192	1,256,668	1,175,782
Cement, Portl	and	••		•	Ton	2,172,518	2,291,043	2,481,036
Cheese	••	••	••		****	45,171	35,895	43,430
Cigarettes	<u>.</u> ٠	∵ .	••	.	'000' гь.	30,513	32,748	35,255
Cleansing and				í				
Soap based	(including	g Sand So		.	Cwt.	78,168	72,586	64,466
Other	• •	• •	• •	٠	**	101,184	127,127	136,241
Cloth-					1000 1		44.064	
Cotton	· 100		••		'000 sq. yds.	46,564	44,261	43,221
Woollen and	worstec	1 (a)	••	•	**	32,782	31,719	27,265
Coke	1			ł	Т	2 224 450	2 205 727	2 210 621
Metallurgica	.1	••		٠ إ	Ton	2,234,458	2,295,737	2,210,621
Other	• •	• •	•• •	• [**	954,756	831,615	815,464
Confectionery-				- 1	1000 11	60.010	62.706	66.005
Chocolate	• •			- 1	'000 lb.	68,810	63,796	66,305
Other	• •	• •	••	٠	,,	87,395	88,881	92,457
Coppers—				- 1	NT-	21.000	20.047	20.717
Electric	• •				No.	21,890	20,943	20,717
Gas			••		**	24,170	22,072	21,834
Inserts (all t			•• •		2000"1-	50,653	40,649	43,393
ordials and S	yrups		••	- 1	'000 gals.	4,623	4,593	4,561
orsets and Co		::	••	٠	Doz.	145,414	177,652	174,619
	ms and L	ouons			ا ا	4,488	4 400	4
				- 4	Cwt.	4.488	4,438	4,717
Face Creams			•	- 1	0			7,121
	s and Lo			- 1	,,	8,939 6,865	8,473 6,817	9,164 7,389

⁽a) Includes kitbags. metal and bristle brushes.

⁽b) Excludes canvas waterbags.(d) Includes mixtures.

⁽c) Excludes tooth and industrial

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

Art	icte.			Unit of Quantity.	1956–57.	1957–58.	1958–59.
Custard Powder Cycles, Assembled	::	::	::	'000 lb. No.	5,647 74,734	5,395 77,040	5,472 69,608
Dynamos— Alternators Generators				No.	389 6,585	443 5,704	330 4,678
Electricity				Mill. kWh	18,289	19,796	21,199
Engines— Diesel, other than M				No.	2,642	2,556	1,670
Petrol— Marine					1,780	3,130	4,388
Other (a) Essences, Flavouring—	•••	::		,,,	180,509	186,325	290,229
Culinary Industriat	::	::	::	Gal.	120,714 345,999	119,264 335,055	120,686 347,452
Face Powder Fans, Electric Fats, Edible—	::	::	::	Cwt. No.	2,779 139,819	2,726 75,193	2,243 118,729
Dripping				Cwt.	440,292	358,029	517,313 529,919
Other Fibrous Plaster Sheets Fish, Tinned (including	 Fish Lo	af)	::	'000 sq. yds. '000 lb.	392,169 16,257 8,268	436,053 17,496 7,856	18,341 7,782
Floorboards— Australian Timber				'000 super. ft.	124,656	129,737	139,163
Imported Timber Flour, Self-raising Flour, Wheaten (b)		::	::	Cwt. Ton (2,000 lb.)	2,657 1,084,974 1,662,977	3,441 1,067,819 1,373,457	2,691 1,031,463 1,363,868
Boots, Shoes and Sar)— ndals			'000 pairs	20,938	21,395	24,055
Slippers Fruit Juices, Natural	••	::	::	'000' gals.	8,214 3,298	9,153 · 3,670	8,535 5,073
Gas Gloves— Dress—	••	••	••	Mill. cubic ft.	46,653	47,655	48,567
Leather Other		••	• •	Doz. pairs.	4,111	3,020 77,104	1,692 52,816
Work, all types Golf Clubs	::		::	Doz.	70,654 276,707 12,443	290,384 13,365	310,007 14,832
Handkerchiefs— Men's				,,	1,118,023	1,204,828	1,363,165
Women's Hats and Caps (excludi	ng Berets			".	1,489,780 485,935	1,569,810 510,057	1,634,059 522,086
Hose, Rubber, Garden Other			::	'000 lin. ft.	3,755	2,736 10,007	2,514 10,680
Plastic, Garden	::	::		"	9,654 27,585	32,565	24,125
Ice Ice Cream Infants' and Invalid's F	 oods (d)	··	::	Ton '000 gals. '000 lb.	485,511 15,647 30,390	462,569 16,519 31,308	381,691 16,002 31,661
Pig Iron Steel Ingots			• •	'000 tons.	2,098 2,774	2,284 3,038	2,294 3,204 2,814
Blooms and Billets Irons, Electric (Hand, I			::	No.	2,774 2,288 354,099	2,492 320,013	2,814 305,899
Jams Jelly Crystals		::	::	'000 lb. "	92,208 12,332	107,773 13,887	78,234 12,756
Lacquer, Clear and Col	ours	::		Gal. Cwt.	1,451,292 42,762	1,559,372 51,795	1,597,532 39,122
Lawn Mowers— Electric				No.	1,494 161,256	2,781 147,253	1,038 248,967
Petrol Hand	••	::	::	"	161,256 48,713	147,253 31,300	248,967 22,015
Leather— Dressed from Hides,	Sold by N	1easurem	ent	'000 sq. ft.	56,611	60,380	64,008
Dressed from Skins		• •	• •	'000 lb. '000 sq. ft.	20,820	20,304	218 20,166
Harness, Skirt, Beltin Sole	g, etc.	••	::	'000 lb.	2,553 30,583	2,205 29,085	1,979 26,601
Upholstery Lime, Agricultural	::	••	::	'000 sq.ft. Ton	1,434 120,298	125,290	960 134,398
Hydrated Quick	::	••	::	"	52,843 109,667	53,025 116,019	55,419 106,980
			1	Į J			·

(a) Excludes motor car, motor cycle, tractor and aero engines. (b) Includes wheatmeal for baking and sharps. (c) Including hoods and capelines. (d) Includes malted milk and milk sugar (lactose).

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

Article.	Unit of Quantity.	1956–57.	1957–58.	1958–59.
Linseed Oil, extracted from Local Crushing from treatment of Unrefined	'000 gals.	1,645	889 2,635	859 2,471
Lubricating Oil	Ton	2,326 49,755	66,669	74,046
Malt, Barley	'000 bus.	7,895	8,197	8,108
Margarine— Table	'000 1ь.	38,632 44,576 298,212	36,033	36,000
Other Mattresses, Wire	No.	298,212	47,017 330,538	53,034 350,900
Inner Spring	**	507,844	568,900 300,717	581,002
Soft Filled, etc Meat, Tinned	'000' гь.	337,017 150,533	178,672	290,615 165,648
Milk—Condensed, Concentrated and Evaporated—				
Full Cream—Sweetened	'000 1ь.	89,554	83,681	70,843
Unsweetened Skim and/or Buttermilk	,,	64,810 10,598	63,429 16,294	66,856 11,072
Milk Powder—		1		
Full Cream Skim	Ton	17,864 30,567	18,073 24,580	19,183 34,128
Buttermilk and Whey	,,	5,552 11,929	5,668 12,558	6,024
Mops, Floor	Gross No.	11,929	12,558	6,024 12,580 169,478
Motor Bodies Assembled	'000' gals.	77,548	81,630	77,835
Motor Spirit (including Benzol) Motors, Electric	No.	833,927 954,318	945,724 1,127,482	971,806 1,314,089
Nails	Ton	26,340 532,868	24,191 489,213	23,815 468,738
Neckties	Doz. Ton	532,868 79,600	489,213 81,085	468,738 83,071
Oatmeal (including Rolled Oats)	Cwt.	402,782	275,268	289,026
Paint, Oil (including Enamels)	'000 gals.	10,873	11,090	11,415
Water (including Kalsomine) Peanut Butter and Paste	'000 lb.	25,920 4,346	(a) 3,916 5,433	(a) 3,295 5,461
Perambulators	No.	149,596	156,657	149,923
Pickles Pigments, Tinting Colours ground in oil	'000 pints Gal,	(b)	5,503 27,118	5,210 30,188
Zinc Oxide	Cwt.	162,953	158,409	128,714
Other, including Dry Colours	**,	393,215	376,585	895,589
Plywood, & inch basis	'000 sq. ft. Ton (2,000 lb.)	194,365 360,285	212,637 291,308	236,204 291,500
Preserves—		· ·	·	-
Fruit Preserved (c) Vegetables Preserved	'000 lb.	289,510 98,418	349,411 87,044	312,563 66,883
Pyjamas—			·	· ·
Men's and Boys' (Suits only) Women's and Girls' (inc. Nightdresses)	Doz.	283,055 399,995	328,018 460,441	365,118 492,289
Racquet Frames (all types)	2"	16,147	17,616	16,063
Refrigerators, Commercial Domestic	No.	1,025 195,517 897,030	ı xıı	1,170 219,760
Rice (Cleaned)	Cwt.	897,030	195,925 1,117,786	219,760 1,437,217 133,352
Ropes and Cables (excluding Wire) Rugs	,000	131,746	130,413 177	133,352
	1000	22 122	20.016	20 606
Sauce	'000 pints Cwt.	95,218	29,016 77,098	30,695 71,936
Semolina	Doz.	33,122 95,218 140,536 1,425,312 23,635	130,179 1,530,310	131,304
Sink Heaters	No.	23,635	19,780	71,936 131,304 1,614,502 19,911
Soap and Detergents— Soap, Personal Toilet	Cwt.	320,846	372,680	397,756
Household	,,	716,568 194,476	769,680 169,679	695,445 155,408
Extracts and Powders, Household	,,	194,476 791,267	169,679 804,713	710,463
Detergents, Personal Toilet	"	75,694 8,763	85,246 9,048	90,636 10,743
Household	"	114,510	146,847	164,214
Industrial Extracts and Powders—	,,,	34,460	35,797	47,017
Household	,,	78,089	183,218	273,977
Industrial	, ,,	45,558	48,846	50,898

⁽a) Water paint in powder form only, including Kalsomine. Excludes production of emulsion types which was 1,801,000 gallons in 1957-58 and 2,032,000 gallons in 1958-59. (b) Not recorded. (c) Includes canned apple, all types. (d) Includes industrial flakes and chips.

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

Ar	ticle.			Unit of Quantity.	1956–57.	1957–58.	1958–59.
Socks and Stockings- Men's and Youths' Women's and Maid	- ls'	 2: A =1:1		'000 doz. pairs	1,454 2,570 1,191	1,472 2,218	1,311 2,458 1,068
Infants' and Babyw		ing Ank		'000 pints	44,538	1,125 27,346	31,480
Soup, Tinned Dry-Mix			• • •	'000 lb.	4,532	3,606	4,329
Spades and Shovels			• • •	Doz.	33.255	23,796	39,787
Starch, Edible			• •	Cwt.	468,308	443,894	407,245 165,939
Inedible		• •	٠.	_,,	124,895	140,891	165,939
Steel, Structural, Fabr Stoves, Ovens and Ra Domestic Cooking-	nges	• •	••	Ton	240,491	226,653	256,904
Electric (a)				No.	99,525 54,966 46,005 1,207,797	92,413	100,224
Gas		• •	٠.	"	54,966	56,300 43,229 1,293,125	67,919
Solid Fuel	:		٠.	_,,	46,005	43,229	39,453
Sugar, Raw (94 net ti Refined	(re)	• •	• •	Ton	1,207,797	1,293,125	1,412,286 518,921
Sulphate of Ammonia		••	••	,,,	480,393 110,898	493,093 118,732	117,489
Superphosphate		• •	• •	, ,,	1,975,015	2,219,592	2,124,087
Daperphosphato	••	••	٠.	"		2,217,372	2,124,007
Talcum Powder Tallow—	••	• •	••	Cwt.	35,084	36,708	37,593
Edible	• •	• •	• •	**	357,033	360,650	547,885
Inedible Television Sets	• •	• •	• •	No.	1,655,807 121,232	1,740,356 282,430	2,256,272 316,412
Tiles, Roofing—	••	••	• •	140.	121,232	202,430	310,412
Cement			٠.	'000	44,595	49,468	52.260
Terracotta				,,	57,673	58,935	52,260 59,232
Timber—				1 "	, i	· · · · · ·	-
From Native Logs-	-			1000	1 151 430	1 127 150	4 4 50 500
Hardwood	• •		• •	'000 super. ft.	1,151,429 267,431	1,127,150	1,158,799
Softwood From Imported Log	··	• •	• •	"	207,431	264,027	301,175
Hardwood			٠.	,,	1 2000		
Softwood		••			26,853	28,534	36,037
Toasters, Electric (Do	mestic)		٠.	No.	174,531 18,917 1,508,439	167,984	188,033
Tobacco			٠.	'000 1ь.	18,917	18,192	17,087 1,468,223
Tomato Juice		• •	٠.	Gal.	1,508,439	18,192 1,407,645	1,468,223
Towels Transformers, Chokes	and Datte		• •	Doz.	740,344	807,227	1,257,089
For distribution of	Power and	isis— i Light e	tc.	No.	اء دا	51 333	72 541
For Fluorescent Lie	hts and N	eon Sign	S		Not	51,333 1,306,429	72,541 1,458,976
For Fluorescent Lig For Radio Receiver	s, Record	Players,	etc.	,,	(collected)	250,052	240,610
For Television Rece	eivers			,,	in this	241,900	298,742
For Welders			٠.	,,	dissection	2,761	6,030
For other purposes		• •	• •	o".	المصيد	50,918	30,525
Twine (all types) Tyres, Pneumatic—	• •	• •		Cwt.	131,424	121,405	186,771
Motor Car and Mo	tor Cycle			No.	2,711,087	3,003,646	3,205,931
Truck and Omnibu	S		• •	T .	536,384	502,725	567,286
Aero and Tractor					148,277	155,170	166,946
				"	,		,-
Umbrellas			٠.		622,554	470,953	510,580
Underwear	• •	• •	• •	'000' doz.	4,688	4,740	4,914
Vacuum Cleaners (Do	mestic)			No.	83,910	81,257	86,287
Washing Machines, H Weatherboards—	lousehold,	Electric	• •	No.	144,422	164,100	180,188
Australian Timber			٠.	'000 super. ft.	22,937	23,886	26,279
Imported Timber					1,759	3,203	3,249
Wheatmeal (b)		• •	• •	Ton (2,000 lb.)	134,245	136,257	85,662
Wheelbarrows (Metal) Wireless and Television) 		• •	No. No.	66,999	67,309	77,378
Wireless Receiving Se	ets (incl	S Padioara	me)	i	429,647 366,282	557,842 380,753	546,461 378,316
Wool Scoured—	cus (mich.	Kautogra	1113)	"	300,202	380,733	370,310
For Sale				'000 1Ь.	43,632	36,866	40,285
For use in own wor	·ks			,,	47,625	47,663	47,463
On Commission Wool Tops				,,	74,506	69,433	69,808
Wool Tops	• •			"	42,661	39,253	40,991
Vorm (a)					!	į	
Yarn (c) Cotton				1	42 707	44 645	43,443
Woollen	• •	••	::	"	42,707 22,884	44,645 24,152	21,680
Worsted	• • •	• •	• • •	,,,	24,818	21,455	18,894
		••	• •	1 "	2.,510	,.55	,.,,
Zinc Oxide (see Pigme	ents)			J)		

⁽a) Includes stovettes, cookers, etc. (b) Excludes wheatmeal for baking included with flour. (c) Including mixtures predominantly of the fibre mentioned.

§ 11. Individual Industries.

1. General.—Particulars on pages 164-91, §§ 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 publication, to give a detailed account of each industry, particular industries dealt with hereunder are of special importance because of the employment which they provide for labour 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 160.

Details of some of the principal articles produced in factories in Australia during the years 1956-57 to 1958-59 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 1958-59 and for a series of years in the following table:—

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

Australia, 1958-59.

Items.		Portland Cement.	Asbestos Cement Sheets and Mouldings.	Other Cement Goods.	Total.
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings Value of plant and machinery Horse-power of engines ordinarily in the	£'000 £'000 £'000 £'000 £'000 £'000 £'000	14 3,105 3,274 4,632 7,109 9,576 21,317 3,423 14,048 90,634	15 2,522 2,681 340 5,786 4,801 10,927 1,370 2,381 15,269	470 5,765 5,693 293 15,844 11,802 27,939 3,515 5,325 19,179	499 11,392 11,648 5,265 28,739 26,179 60,183 8,308 21,754 125,082

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

Australia.

Items.	1938–39.	1954–55.	1955-56.	1956–57.	1957–58.	1958–59.
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings £'000	132 3,932 897 562 1,542 2,385 4,489 1,350	480 10,444 8,704 4,445 19,418 17,009 40,872 4,726	489 11,167 10,044 4,792 21,999 19,460 46,251 6,128	479 10,688 10,312 5,119 23,226 21,228 49,573 6,994	481 10,994 10,864 5,124 25,579 23,121 53,824	499 11,392 11,648 5,265 28,739 26,179 60,183 8,308
Value of land and buildings £'000 Value of plant and machinery £'000 Horse-power of engines ordinarily in	2,516	13,208	15,542	18,454	7,407 19,823	21,754
use h.p.	39,617	95,870	108,715	105,805	106,905	125,082

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 1958-59 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).

1958-59.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	162	91	20	14	13	. 2	302
Number of persons employed		6,840	350	912	(a)	(a)	15,813
Salaries and wages paid . £'000	8,594	7,151	318	951	(a)	(a) (a)	17,240
Value of power, fuel, etc.,	1 ') ′	j	ļ	1 '']	• •) '
used £'000	2,643	1,212	100	575	(a)	(a)	4,616
Value of materials used £'000		16,701	890	1.368	(a)	(a)	46,605
Value of production £'000		14,675	776	2,940	(a)	(a)	42,512
Total value of output £'000		32,588	1,766	4,883	(a)	(a)	93,733
Value of land and buildings £'000		10,160	250	899	(a)	(a)	22,948
Value of plant and machi-	11,272	10,100	250	0,,	()	(4)	22,740
nary finno	19,349	15,379	754	1,714	(a)	(a)	38,137
Horse-power of engines ordinarily		15,515	,,,,	1,77	(**)	(4)	50,137
in use h.p.		58,510	1,820	5,432	(a)	(a)	130,928

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

Australia.

Items.			1945–46.	1954–55.	1955–56.	1956–57.	1957–58.	1958–59.
Number of factories Number of persons employed Salaries and wages paid . Value of power, fuel, etc., used Value of materials used . Value of production . Total value of output . Value of land and buildings Value of plant and machinery Horse-power of engines ordina in use	 rily	£'000 £'000 £'000 £'000 £'000 £'000	165 10,228 3,450 618 6,007 6,627 13,252 11,697 10,964 69,399	248 13,032 11,833 3,043 29,004 25,095 57,142 14,190 25,607 95,188	258 14,107 13,574 3,462 33,506 29,895 66,863 15,987 27,125	270 14,509 14,684 3,845 38,335 34,513 76,693 17,831 29,190	281 15,085 15,875 4,208 43,497 35,930 83,635 21,055 36,157 121,393	302 15,813 17,240 4,616 46,605 42,512 93,733 22,948 38,137 130,928

PHARMACEUTICAL AND TOILET PREPARATIONS.

1958-59.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	128	57	7	13	4	ī	210
Number of persons employed	3,503	2,748	126	525	(a)	(a)	6,976
Salaries and wages paid £'000		2,577	81	380	(a)	(a)	5,886
Value of power, fuel, etc.,				•	1		
used £'000	115	601	1	34	(a)	(a)	754
Value of materials used £'000	10.876	6.591	324	1,671	(a)	(a)	19,575
Value of production £'000	15.045	6,786	184	959	(a)	(a)	23,130
Total value of output £'000		13,978	509	2,664	(a)	(a)	43,459
Value of land and buildings £'000		4,800	61	317	(a)	(a)	10,750
Value of plant and machi-	1 1		!		1		
nery, £'000	1,511	2,811	33	138	(a)	(a)	4,519
Horse-power of engines ordinarily			ĺ	i	1 1		
in use h.p	. 5,428	9,504	91	1,541	(a)	(a)	16,702

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

AUSTRALIA.

Items.		1945-46.	1954-55.	1955-56.	1956–57.	1957–58.	1958-59.
Number of factories Number of persons employed Salaries and wages paid	 £'000	215 5,514 1,699	210 6,233 4,255	206 6,400 4,635	206 6,446 5,020	212 6,834 5,531	210 6,976 5,886
Value of power, fuel, etc., used Value of materials used	£'000	57 5,402	223 12,729	259 13,565	312 15,292	386 18,226	754 19,575
Value of production	£'000 £'000	4,790 10,249 1,534	14,380 27,332 6,022	15,279 29,103 6,830	17,312 32,916 7,828	21,856 40,468 9,677	23,130 43,459 10,750
Value of plant and machinery Horse-power of engines ordinarily in use	£'000 h.p.	6,324	2,129 13,592	2,686 14,301	2,746 16,666	3,262 14,962	4,519 16,702

4. White Lead, Paints and Varnish.—The following table shows particulars of this industry for each State during 1958-59 and for Australia for a series of years:—

WHITE LEAD, PAINTS AND VARNISH.

1958-59.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	84	52	19	16	13	4	188
Number of persons employed	2,892	1,664	306	518	(a)	(a)	5,532
Salaries and wages paid £'000	2,951	1,644	250	471	(a)	(a)	5,448
Value of power, fuel, etc., used £'000	260	109	16	28	(a)	(a)	419
Value of materials used £'000	13,343	7,633	1,554	2,184	(a)	(a)	25,448
Value of production £'000	7,082	3,045	1,133	1,572	(a)	(a)	13,184
Total value of output £'000	20,685	10,787	2,703	3.784	(a)	(a)	39,051
Value of land and buildings £'000	2,596	2,406	357	585	(a)	(a)	6,327
Value of plant and machinery £'000	1,355	1,839	173	213	(a)	(a)	3,696
Horse-power of engines ordinarily	1	-,					,
in use h.p.	13,088	7,271	1,536	2,201	(a)	(a)	25,093

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

AUSTRALIA.

Items.	1938-39.	1954–55.	1955–56.	1956–57.	1957–58.	1958–59.
Number of factories		175	178	186	184	188
Number of persons employed .		5,322	5,804	5,815	5,749	5,532
Salaries and wages paid £'00	535	4.636	5.300	5,508	5,608	5,448
Value of power, fuel, etc., used £'00	0 45	376	384	400	445	419
Value of materials used £'00	0 2,275	21,553	23,504	23,916	24,619	25,448
Value of production £'00	0 1,585	11,980	12,874	13,567	13,853	13,184
Total value of output £'00	0 3,905	33,909	36,762	37,883	38,917	39,051
Value of land and buildings £'00	0 761	5,089	5,563	6,680	6,397	6,327
Value of plant and machinery £'00	0 324	2,892	3,261.	3,408	3,986	3,696
Horse-power of engines ordinarily i	n l	1	i '	1		'
use h.r		24,178	25,050	26,969	25,443	25,093

5. Soap and Candle Factories.—The following table shows particulars of factories in the Soap and Candle industry in each State for 1958-59 and for Australia for a series of years:—

SOAP AND CANDLES.

1958-59.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	41	28	- 9	5	3		89
Number of persons employed	1,755	798	241	49	(a)	(a)	2,929
Salaries and wages paid . £'000	1,709	820	197	33	(a)	(a)	2,822
Value of power, fuel, etc., used £'000	167	188	22	4	(a)	(a)	387
Value of materials used £'000	7.575	6,448	730	134	(a)	(a)	15,253
Value of production £'000	6,961	4,418	406	48	(a)	(a)	11,941
Total value of output £'000	14,703	11,054	1.158	186	(a)	(a)	27,581
Value of land and buildings £'000	681	1,080	168	30	(a)	(a)	2,039
Value of plant and machinery £'000	1,483	1,326	197	40	(a)	(a)	3,118
Horse-power of engines ordinarily	,	,	i		`"	. ,	,
in use h.p.	5,691	5,306	1,030	279	(a)	(a)	12,632

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

AUSTRALIA.

Items.	1938–39.	1954-55.	1955–56.	1956–57.	1957–58.	1958–59.
Number of factories	65	91	92	87	90	89
Number of persons employed	2,620	2,962	3,167	2,932	2,983	2,929
Salaries and wages paid £'000	501	2,589	2,858	2,704	2,830	2,822
Value of power, fuel, etc. used £'000	76	420	406	393	441	j .387
Value of materials used £'000	1.568	11,941	12,057	12,437	14,446	15,253
Value of production £'000	1,886	7,425	8,147	9,150	10.525	11,941
Total value of output £'000	3,530	19,786	20,610	21,980	25,412	27,581
Value of land and buildings £'000	666	1,619	1,743	1,784	1,871	2,039
Value of plant and machinery £'000	577	2,653	3,001	3,150	2,973	3,118
Horse-power of engines ordinarily in	1			1] -,	
use h.p.	5,267	8,676	10,711	10.922	11,296	12,632
Materials used—	1	,	1	,	1	
Tallow cwt.	535.511	1.151.146	1.162.578	1,152,865	1.219.538	1.161.856
Alkali for Soap (a),	194.869	421,401	390,757	366,796	386,712	384,680
Coconut oil-refined and unrefined	12.,000	100,00		200,		** .,
cwt.	138,954	93,498	83,346	80,395	94,952	92,719
Articles produced—	100,50	,	00,010	00,000	, ,,,,,,,,	,
Soap (excl. Sand Soap) ,,	908,797	1,263,226	1.269.648	1.231.890	1,311,796	1.248.609
Cleansers and Scourers (inc. Sand	204,020	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1,20,,0,0	1,201,000	,,,,,,,,	,,
Soap) cwt.	123,702	115.350	105.046	78,186	72,586	64,466
Soap Extracts and Powders	191,232	1,007,494		866,961	875,959	801,099
Candles made	28,649	10,369	10,011	10,354	7,444	8,588

⁽a) Includes Soda Ash.

Note,—Preliminary figures of production in 1959-60 were Soap, 1,259,000 cwt.; Cleansers and Scourers, 66,000 cwt.; and Soap Extracts and Powders, 827,000 cwt.

6. Chemical Fertilizers.—The following table shows particulars of the factories engaged in the manufacture of chemical fertilizers in each State during 1958-59 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.

1958-59.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	12	7	8	8	6		48
Number of persons employed	819	1.551	(a)	851	975	(a)	4,959
Salaries and wages paid £'000	878	1,715	(a)	845	956	(a)	5,207
Value of power, fuel, etc., used£'000	255	284	(a)	86	151	(a)	995
Value of materials used £'000	3,230	7,643	(a)	5,316	5,394	(a)	25,756
Value of production £'000	1,822	3,554	(a)	1,827	1,972	(a)	11,440
Total value of output £'000	5,307	11,481	(a)	7,229	7,517	(a)	38,191
Value of land and buildings £'000	3,124	814	(a)	740	1,896	(a)	7,633
Value of plant and machinery £'000	2,744	1,665	(a)	3,109	1,906	(a)	10,808
Horse-power of engines ordinarily	' '		,		'	, ,	
in use h.p.	13,853	14,218	(a)	9,928	8,819	(a)	57,587

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

CHEMICAL FERTILIZERS—continued.

AUSTRALIA.

Items.	1938-39.	1954–55.	1955–56.	1956–57.	1957–58.	1958-59.
Number of factories	36	53	54	52	49	48
Number of persons employed .	2 540	4,735	4,911	5,074	5,050	4,959
Salaries and wages paid £'000		4,372	4,809	5,069	5,309	5,207
Value of power, fuel, etc., used £'000	114	852	939	1,160	950	995
Value of materials used £'000		21,519	24,098	25,479	28,862	25,756
Value of production £'000		8,794	. 10,267	10,158	12,175	11,440
Total value of output £'000		31,165	35,304	36,797	41,987	38,191
Value of land and buildings £'000		6,512	7,033	7,341	7,583	7,633
Value of plant and machinery £'000		9,270	11,645	11,404	10,835	10,808
Horse-power of engines ordinarily in		[1			[
use h.p		47,595	58,044	59,457	58,212	57,587

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 1958-59 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.

1958-59.

Items.	N.S.W.	Vic.	Q'land.	S.A.	W.A.	Tas.	Aust.
Number of factories	17	10	·		2		34
Number of persons employed	28,065	1,324	l l	(a)	(a)		29,982
Salaries and wages paid £'000	32,236	1,393	l	(a)	(a)		34,220
Value of power, fuel, etc., used £'000	20,885	348	l i	(a)	(a)		23,539
Value of materials used . £'000	150,054	1,523	l l	(a)	(a)		153,563
Value of production £'000	73.550	1,869	!	(a)	(a)		78,154
Total value of output £'000	244,489	3,740	١ ١	(a)	(a)		255,256
Value of land and buildings £'000	10,614	444	۱ ۱	(a)	(a)		11,400
Value of plant and machinery £'000	78,600	651		(a)	(a)		82,451
Horse-power of engines ordinarily	,						
in use , h.p.	608,749	8,136	1	(a)	(a)		633,180

AUSTRALIA.

Items.		1945-46.	1954–55.	1955–56.	1956–57.	1957–58.	1958–59.
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of materials used	£'000	27 10,413 4,164	33 17,842 18,238 15,670 94,928	(b) 28 20,805 22,037 17,864 101,416	34 26,078 28,636 20,538 136,483	35 28,526 31,469 22,150 137,674	34 29,982 34,220 23,539 153,563
Value of production Total value of output Value of land and buildings Value of plant and machinery Horse-power of engines ordinarily	£'000 £'000 £'000 £'000 y in use h.p.	29,304 2,197 5,669	34,381 144,979 6,615 26,394 339,135	44,269 163,549 6,457 29,154 363,751	66,385 223,406 9,054 61,608 448,541	70,379 230,203 9,953 71,048 536,530	78,154 255,256 11,400 82,451 633,180

(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 193 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 1958-59 and for Australia in selected years in the following table:—

FOUNDRIES-FERROUS.

1958-59.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	86	193	24	26	17		346
Number of persons employed	2,831	2,722	858	541	424		7,376
Salaries and wages paid £'000	2,880	2,726	797	518	372		7,293
Value of power, fuel, etc., used £'000	348	371	60	79	97		955
Value of materials used . £'000	2,095	2,856	885	481	370		6,687
Value of production £'000	4,224	3,922	1,128	814	527		10,615
Total value of output £'000	6,667	7,149	2,073	1,374	994		18,257
Value of land and buildings £'000	1,462	1,531	415	220	284		3,912
Value of plant and machinery £'000	1,042	1,049	444	202	226		2,963
Horse-power of engines ordinarily	'	•		ŀ			1
in use h.p.	11,713	10,891	3,560	2,558	2,890		31,612

Australia.

Items.			1945–46.	1954–55.	1955–56.	1956–57.	1957–58.	1958–59.
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of materials used Value of production	£	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	312 5,344 1,612 161 1,210 2,341	368 7,099 6,116 796 4,881 8,983	373 7,434 6,706 918 5,396 9,652	368 7,633 7,060 975 6,221 10,235	373 7,801 7,548 997 6,664 11,237	346 7,376 7,293 955 6,687 10,615
Total value of output Value of land and buildings Value of plant and machinery Horse-power of engines ordinari	£	'000 '000 '000 h.p.	3,712 988 619 13,381	14,660 2,623 2,342 26,451	15,966 3,564 3,234 30,738	17,431 3,899 3,545 32,835	18,898 4,244 3,615 33,042	18,257 3,912 2,963 31,612

(iv) Plant, Equipment and Machinery (including Machine Tools). The next table shows particulars for this group for each State during 1958-59 and for Australia in selected years:—

PLANT, EQUIPMENT AND MACHINERY (INCLUDING MACHINE TOOLS).

1958-59.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	1,136	714	161	207	116		2.345
Number of persons employed	28,230	24.712	6,003	8.712	2.995	253	70,905
Salaries and wages paid £'000	29,265	25,059	5,077	8,098	2,633	239	70,371
Value of power, fuel, etc., used £'000	1,167	1,110	233	520	124	7	3,161
Value of materials used . £'000	55,111	41,754	7,711	13,902	3,609	321	122,408
Value of production £'000	49,570	41,164	7,898	12,467	4,032	341	115,472
Total value of output £'000	105,848	84,028	15,842	26,889	7,765	669	241,041
Value of land and buildings £'000	21,301	19,000	2,540	4,526	2,274	286	49,927
Value of plant and machinery £'000	13,842	14,585	2,059	3,985	1,677	252	36,400
Horse-power of engines ordinarily							
in use h.p.	96,816	89,830	19,824	31,420	12,050	640	250,580

Australia.

Items,		1945–46.	1954–55.	1955–56.	1956–57.	1957–58.	1958-59.
Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of materials used Value of production Total value of output	£'000 £'000 £'000	1,038 46,123 14,259 605 16,455 21,044 38,104	1,980 64,588 54,561 2,378 80,462 87,040 169,880		2,212 69,476 65,272 2,775 99,172 106,922 208,869	2,240 69,540 67,000 2,964 114,716 110,365 228,045	2,345 70,905 70,371 3,161 122,408 115,472 241,041
Value of land and buildings Value of plant and machinery Horse-power of engines ordinarily	£'000	7,227 7,046 101,810	28,687 23,548 201,626	34,019 26,261 217,880	39,692 29,112 222,937	45,592 32,805 236,230	49,927 36,400 250.580

(v) Other Engineering. Details covering jobbing and general engineering works not elsewhere included are shown for each State for 1958-59 and for Australia in selected years in the following table:—

OTHER ENGINEERING.

1958-59.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	804	815	173	181	154	93	2,220
Number of persons employed	6,901	8,557	1,831	3,670	894	1,614	23,467
Salaries and wages paid. £'000	6,418	8,252	1,485	3,392	694	1,441	21,682
Value of power, fuel, etc., used £'000	259	308	44	106	34	55	806
Value of materials used . £'000	7,781	8,798	2,149	4,652	889	1,790 '	26,059
Value of production £'000	10.417	13,923	2,394	4,849	1.165	2,081	34,829
Total value of output £'000	18.457	23,029	4,587	9,607	2.088	3,926	61,694
Value of land and buildings £'000	5.437	6,141	914	2,506	563	1,094	16,655
Value of plant and machinery £'000		.,	1	,		.,	•
Horse-power of engines ordinarily	3,403	5,394	675	1,776	312	641	12,201
in use h.p.	22,190	26,626	5,010	12,330	3,845	6,108	76,109

AUSTRALIA.

Items.			1945-46.	1954–55.	1955–56.	1956–57.	1957–58.	1958–59
Number of factories	· ·		963	2,128	2,220	2,166	2,223	2,220
Number of persons employed			13,112	22,540	24,445	23,148	23,370	23,467
Salaries and wages paid		£'000	3,634	17,491	20,477	20,037	20,768	21,682
Value of power, fuel, etc., used		£'000	162	599	698	674	699	806
Value of materials used		£'000	3,599	20.834	24,534	22,320	23.780	26.059
Value of production		£'000	5,432	28,025	32,949	31,568	34,274	34,829
Total value of output		£'000	9,193	49,458	58.181	54,562	58,753	61,694
Value of land and buildings		£'000	2.369	11,289	13,205	13,801	15,485	16,655
Value of plant and machinery		£'000	2,091	8,070	9,363	9,440	10,746	12,201
Horse-power of engines ordinarily			26,095	66,406	78,246	72,254	76,500	76,109

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 1958-59 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. 1958–59.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	32	23	4	2	4	3	68
Number of persons employed	1,355	324	596	(b)	11 [(b) (b) (b)	7,269
Salaries and wages paid £'000	1,666	368	774	(b) (b) (b) (b)	11	(b)	8,880
Value of power, fuel, etc., used £'000	608	58	1,061	(b)	4 1	(b)	4,724
Value of materials used £'000	13,444	3,064	18,497	(b)	49	(b)	61,060
Value of production £'000	3,406	922	2,249	(6)	34	(b)	18,129
Total value of output £'000	17,458	4,044	21,807	(b)	87	(b)	83,913
Value of land and buildings £'000	945	405	974	(b) (b) (b)	9	(b) (b) (b)	7,326
Value of plant and machinery £'000	2,514	244	1,364	(b)	35	(b)	15,764
Horse-power of engines ordinarily			, i	1 ' '			-
in use h.p.	8,672	1,129	8,443	(b)	261	(b)	76,680

Australia.

Items.			1938-39. (c)	1954–55.	1955–56.	1956–57.	1957–58.	1958–59.
Number of factories	••		42	62	56	58	63	68
Number of persons employed			5,532	6.782	7,029	7,212	7,254	7,269
Salaries and wages paid		£'000	1,613	6,432	7,434	8,720	8,667	8,880
Value of power, fuel, etc., used		£'000	´598	3,253	3,753	4,282	4,413	4,724
Value of materials used		£'000	16,844	62,859	70,000	68,426	58,120	61,060
Value of production		£'000	3,892	14,148	17,787	19,773	18,138	18,129
Total value of output		£'000	21,334	80,260	91,540	92,481	80,671	83,913
Value of land and buildings		£'000	1,177	3,044	6,155	6,566	6,907	7,326
Value of plant and machinery		£'000	3,526	6,019	13,367	14,485	15,262	15,764
Horse-power of engines ordinarily	in us	e h.p.	54,450	66,280	79,696	76,212	76,070	76,680

⁽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 1958-59 and for Australia for a series of years:—

ELECTRICAL MACHINERY, CABLES AND APPARATUS.

		1730-37	.				
Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	572	384	69	82	88	18	1,213
Number of persons employed	J 31,330 I	13,734	2,063	1,777	961	204	50,069
Salaries and wages paid £'000	30,025	12,969	1.591	1,469	755 '	170	46,979
Value of power, fuel, etc., used £'000	1.557	810	48	42	24	12	2,493
Value of materials used £'000	62,319	27,166	2.367	1.876	914	322	94,964
Value of production £'000-	50,969	19,721	2,412	2.181	1,181	344	76,808
Total value of output £'000	114.845	47,697	4,827	4,099	2,119	678	174,265
Value of land and buildings £'000	19,184	10,960	1,083	898	648	185	32,958
Value of plant and machinery £'000	13.962	8,297	707	410	159	92	23,627
Horse-power of engines ordinarily		-,	1				
in use h.p.	63,608	37,445	6,810	2,247	1,536	334	111,980

			AUSTRAL	IA.				
Items.			1938–39.	1954–55.	1955-56.	1956–57.	1957–58.	1958–59.
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings		£'000 £'000 £'000 £'000 £'000	360 10,666 2,031 105 3,195 3,655 6,955 1,627	1,064 42,007 33,403 1,651 69,962 54,637 126,250 16,885	1,099 43,841 36,663 1,808 75,129 57,036 133,973 19,992	1,153 44,594 38,780 1,964 76,256 63,198 141,418 25,306	1,152 46,394 41,892 2,155 84,212 69,589 155,956 28,316	50,069 46,979 2,493 94,964 76,808 174,265 32,958
Value of plant and machinery Horse-power of engines ordinaril	y in	£'000 use h.p.	897 12,043	11,915 81,058	13,854 83,279	16,409 91,991	20,046 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 (fourteen in 1958-59) controlled by non-public bodies are not included in the figures below.

TRAMCARS AND RAILWAY ROLLING STOCK.(a) 1958-59.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	40		29	14	27	7	139
Number of persons employed	14,284	7,391	7,780	4,053	3,738	747	37,993
Salaries and wages paid £'000	12,974	6,429	6,831	3,629	3,044	692	33,599
Value of power, fuel, etc., used £'000	420	222	155	135	118	30	1,080
Value of materials used £'000	5,924	5,479	3,078	3,213	1,607	262	19,563
Value of production £'000	15,884	8,684	8,017	4,463	3,619	890	41,557
Total value of output £'000	22,228	14,385	11,250	7.811	5,344	1.182	62,200
Value of land and buildings £'000	6,216	2,139	1,028	1,631	656	704	12,374
Value of plant and machinery £'000	10,072	1,429	1,460	2,218	1,030	338	16,547
Horse-power of engines ordinarily	,		1	1 1	i i		1
in use h.p.	44,528	22,881	18,278	14,502	11,701	3,272	115,162

AUSTRAL	IA.				
1938-39.	1954–55.	1955–56.	1956-57.	1957–58.	1958-59.
117 27,310 6,721 226 4,976 8,021 13,223 6,737 5,290	123 38,599 30,777 1,025 18,818 37,505 57,348 10,524 13,124	38,357 38,357 33,159 1,061 20,555 40,404 62,020 11,076 14,072	125 38,780 33,670 1,090 21,565 41,172 63,827 11,494 14,673	38,079 32,946 1,083 20,050 40,685 61,818 11,775 15,234	37,993 33,599 1,080 19,563 41,557 62,200 12,374 16,547
	1938-39. 117 27,310 6,721 226 4,976 8,021 13,223 6,737	117 123 27,310 38,599 6,721 30,777 226 1,025 4,976 18,818 8,021 37,505 13,223 57,348 6,737 10,524 5,290 13,124	1938-39. 1954-55. 1955-56. 117 123 125 27,310 38,599 38,357 6,721 30,777 33,159 226 1,025 1,061 4,976 18,818 20,555 8,021 37,505 40,404 13,223 57,348 62,020 6,737 10,524 11,076 5,290 13,124 14,072	1938-39. 1954-55. 1955-56. 1956-57. 117 123 125 125 27,310 38,599 38,357 38,780 6,721 30,777 33,159 33,670 226 1,025 1,061 1,090 4,976 18,818 20,555 21,565 8,021 37,505 40,404 41,172 13,223 57,348 62,020 63,827 6,737 10,524 11,076 11,494 5,290 13,124 14,072 14,673	1938-39. 1954-55. 1955-56. 1956-57. 1957-58. 117 123 125 125 124 27.310 38.599 38.357 38.780 38.079 6.721 30.777 33.159 33.670 32.946 1.025 1.061 1.090 1.083 4.976 18.818 20.555 21.565 20.050 8.021 37.505 40.404 41.172 40.685 13.223 57.348 62.020 63.827 61.818 6.737 10.524 11.076 11.494 11.775 5.290 13.124 14.072 14.673 15.234

(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 1958-59 for each branch of industry associated with the motor trade of Australia.

MOTOR VEHICLES: CONSTRUCTION, ASSEMBLY, REPAIRS, ETC., AUSTRALIA. 1958–59.

Items.			Construc- tion and Assembly.	Repairs.	Motor Bodies.	Motor Acces- sories.	Total.
Number of factories			62	9,383	1,650	259	11.354
Number of persons employed			18,670	58,602	25,882	10,046	113,200
Salaries and wages paid		£'000	19,549	43,850	24,110	9,569	97,078
Value of power, fuel, etc., used		£'000	1,477	1,435	1,052	639	4,603
Value of materials used		£'000	41.756	48.072	46,531	13,218	149,577
Value of production		£'000	39,366	67,965	37,011	17,227	161.569
Total value of output		£'000	82,599	117,472	84,594	31,084	315,749
Value of land and buildings		£'000	17,108	60,055	15,431	7,140	99,734
Value of plant and machinery		£'000	16,485	12,947	11,357	6,953	47,742
Horse-power of engines ordinari	ly in	use h.p.	58,707	67,812	59,142	38,240	223,901

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

In the next table, similar details are shown on a State basis for 1958-59 and for Australia for selected years for these industries combined:—

MOTOR VEHICLES: CONSTRUCTION, ASSEMBLY, REPAIRS, ETC. 1958-59.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	4,764	2,756	1,378	1,038	1,060	358	11,354
Number of persons employed Salaries and wages paid £'000	38,074 32,031	38,212 34,762	10,352 7,323	17,491	6,601 5,080	2,470 1,861	113,200 97.078
Value of power, fuel, etc., used £'000	1,449	1.920	244	723	208	1,001	4.603
Value of materials used £'000	58,006	42,449	8,377	30,666	7,930	2,149	149,577
Value of production £'000	52,823	59,183	15,265	22,548	8,548	3,202	161,569
Total value of output £'000 Value of land and buildings £'000	112,278	103,552 36,325	23,886 7.049	53,937	16,686 5,541	5,410 2,461	315,749 99,734
Value of plant and machinery £'000	17,049	17,311	2,105	9,043	1,662	572	47,742
Horse-power of engines ordinarily	60.046	05.55	40.450	44.400		2 0 40	222.001
in use h.p.	62,046	87,777	13,172	44,108	13,749	3,049	223,901

AUSTRALIA. 1945-46. 1954-55. 1955-56. 1956-57. 1957-58. 1958-59. Items. 10,909 11,354 Number of factories 3,592 9,707 10,334 98,343 73,073 2,798 108,119 112,541 110,380 113,200 91,886 97,078 4,250 4,603 143,724 149,577 148,383 161,569 Number of persons employed Salaries and wages paid ... Value of power, fuel, etc., used Value of materials used ... 107,480 86,282 3,747 120,297 39,706 10,582 105,959 84,082 ٠. £,000 £,000 £,000 3,189 126,933 395 12,143 Value of production £'000 15,818 126,459 132,018 28,356 9,878 3,758 223,458 55,451 26,073 256,062 78,817 296,357 315,749 89,561 99,734 Total value of output £'000 256,581 Value of land and buildings Value of plant and machinery £'000 66,235 32,390 99,734 £'000 40,890 47 46,630 56,117 160,001 202,963 206,792 211,264 223,901 Horse-power of engines ordinarily in use h.p.

The table below shows the production and imports of motor bodies for 1938-39 and 1954-55 to 1959-60:--

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

Items.	1938–39.	1954–55.	1955–56.	1956–57.	1957–58.	1958-59.	1959–60. (b)
Motor Bodies(a)— Made No. Assembled from Panels imported	79,436	126,079	129,700	120,781	160,675	169,992	195,876
or made elsewhere No. Imported (d) No.	(c) 532	62,383 37,924	94,676 19,041	77,548 7,062	81,630 (e)5,890	78,482 (e)6,104	98,009 (e) 6,178

(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 1958-59 and for Australia for a series of years:—

AGRICULTURAL MACHINES AND IMPLEMENTS.

1958-59.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	149	91	49	34	35		358
Number of persons employed	1,797	5,761	1,353	1,517	299		10,727
Salaries and wages paid £'000	1,707	5,802	1,117	1,306	246		10,178
Value of power, fuel, etc., used £'000	85	422	60	97	10		674
Value of materials used £'000	1,989	8,892	1,234	1,775	272		14,162
Value of production £'000	2.527	8,992	1.570	1,967	370		15,426
Total value of output £'000	4,601	18,306	2,864	3,839	652		30,262
Value of land and buildings £'000	2,157	2,709	732	707	361		6,666
Value of plant and machinery £'000 Horse-power of engines ordinarily	766	2,525	510	511	106	::	4,418
in use h.p.	6,379	20,399	5,739	5,495	1,189		39,201

AUSTRALIA.

Items.			1938–39.	1954–55.	1955–56.	1956-57.	1957-58.	1958-59
Number of factories			161	308	324	348	370	
Number of persons employed			6,563	12,182	11,938	10,387	10,449	
Salaries and wages paid	٠.	£'000	1,373	10,206	10,364	9,107	9,534	
Value of power, fuel, etc., used	٠.	£'000	82	695	670	581	638	674
Value of materials used	٠.	£'000	1,485	13,572	13,082	11,084	13,438	14,162
Value of production		£'000	1,836	14,558	14,650	14,038	15,599	15,426
Total value of output		£'000	3,403	28,825	28,402	25,703	29,675	
Value of land and buildings		£'000	997	5,038	5,774	6,153	6,620	
Value of plant and machinery		£'000	911	4,282	4,673	4,800	4,537	
Horse-power of engines ordinaril	y in		13,346	39,858	39,878	40,254	39,652	39,201

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 television 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 2,283,000 at 30th June, 1960, and this increase reflects the advancement of the industry during that period. At 30th June, 1960, 955,000 television viewers' licences were in force.

WIRELESS AND AMPLIFYING APPARATUS: AUSTRALIA.

Items.	 	1938–39	1954-55.	1955–56.	1956–57.	1957–58.	1958~59
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings Value of plant and machinery Horse-power of engines ordinarily Wireless receiving sets made(a) Television receiving sets made	 £'000 £'000 £'000 £'000 £'000 £'000 £'000 h.p. No.	72 4,828 754 23 1,356 1,123 2,502 558 305 2,710 163,821	175 8,550 6,398 205 10,076 8,624 18,905 2,300 1,242 8,930 456,034	181 9,171 7,051 231 10,363 8,907 19,501 3,428 1,761 9,624 458,012 2,636	205 12,074 9,145 312 16,801 11,767 28,880 4,752 3,101 11,658 366,282 121,232		14,264 550 39,255 23,431 63,236 7,897 5,018

⁽a) Including radiograms and car radios.

Note.—There were 406,000 wireless receiving sets (including radiograms) and 435,000 television receiving sets made in 1959-60.

- 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 5 million lb. in the five years ended 1959-60. The growing of cotton, which is mainly confined 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 1959-60) from India, Pakistan, Mexico 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 1954-55 to 1958-59.

COTTON	SPINNING	AND	WEAVING:	AUSTRALIA.
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Items.		1938–39.	1954-55.	1955–56.	1956–57.	1957–58.	1958-59
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of materials used Value of moduction Total value of output Value of land and buildings Value of plant and machinery Horse-power of engines ordinaril	£'000 £'000 £'000 £'000 £'000 £'000	3,589 493 50 1,357 979 2,386 704 736	96 9,582 6,845 706 18,505 11,343 30,554 5,078 4,355 34,356	97 9,598 7,297 703 18,571 12,227 31,501 5,719 4,637 34,657	91 9,754 7,799 890 19,485 14,202 34,577 6,478 5,312 34,568	97 9,879 8,268 958 24,025 15,622 40,605 7,179 6,702 35,880	9,770 8,116 988 19,403 14,751 35,142 10,625 9,949

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.

1958-59.

Items.	N:S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories Number of persons employed Salaries and wages paid £'000	5,907 4,502	87 10,995 8,475	4 920 564	3 581 420	(a) (a)	(a) (a)	141 20,809 15,714
Value of power, fuel, etc., used £'000 Value of materials used . £'000 Value of production . £'000 Total value of output . £'000 Value of land and buildings £'000 Value of plant and machinery £'000	390 8,985 7,787 17,162 2,699 3,618	798 20,295 14,047 35,140 6,579 6,386	1,840 735 2,619 191 347	785 753 1,579 234 262	(a) (a) (a) (a) (a) (a)	(a) (a) (a) (a) (a) (a)	1,445 37,252 26,458 65,155 10,519 12,082
Horse-power of engines ordinarily in use h.p.	16,597	43,084	3,735	1,618	(a)	(a)	72,301

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

WOOL CARDING, SPINNING AND WEAVING—continued.

AUSTRALIA.

Items.			1938-39.	1954–55.	1955–56.	1956-57.	1957–58.	1958–59
Number of factories			90	151	145	143	146	141
Number of persons employed	٠.		19,608	21,844	21,899	23,217	22,386	20,809
Salaries and wages paid		£'000	2,888	13,945	14,409	16,340	16,380	15,714
Value of power, fuel, etc., used		£'000	393	1,288	1,345	1,479	1,463	1,445
Value of materials used		£'000	7,331	38,938	39,532	49,303	46,012	37,252
Value of production		£'000	4,791	21,898	24,082	27,649	25,737	26,458
Total value of output		£'000	12,515	62,124	64,959	78,431	73,212	65,155
Value of land and buildings		£'000	2.380	7,369	7,713	9,019	9,364	10.519
Value of plant and machinery		£'000	3.370	10,053	10,673	10,855	11,641	12,082
Horse-power of engines ordinarily Articles produced—	in 1	use h.p.	42,944	66,817	71,752	99,385	70,433	72,301
Woollen and worsted cloth(b)(c)	000	sa. vds.	31.768	31.067	30,279	32,782	31,719	27,265
		'000	1,279	1,673	1,799	1.841	2.032	1,838

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

16. Hosiery and Other Knitted Goods.—Details for each State for 1958-59 and for Australia for a series of years are shown in the following table:—

HOSIERY AND OTHER KNITTED GOODS.

1958-59.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	200	438	4	9	8	4	663
Number of persons employed	6.607	15.285	588	127	(a)	(a)	22.851
Salaries and wages paid £'000	4,873	10,979	352	60	(a) +	(a)	16,421
Value of power, fuel, etc., used £'000	218	549	11	3	(a)	(a)	78 7
Value of materials used £'000	11.134	21,820	1,321	115	(a)	(a)	34,701
Value of production £'000	9,292	20,846	826	94	(a)	(a)	31,325
Total value of output £'000	20,644	43,215	2,158	212	(a)	(a)	66,813
Value of land and buildings £'000	3,425	8,240	296	44	(a)	(a)	12,144
Value of plant and machinery £'000	2,464	6,529	250	34	(a)	(a)	9,353
Horse-power of engines ordinarily	_,	0,025			(-)	(-)	-,
in use h.p.	6,568	15,518	709	198	(a)	(a)	23,290

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

AUSTRALIA.

Items.		1938–39.	1954–55.	1955–56.	1956–57.	1957–58.	1958-59
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings Value of plant and machinery Horse-power of engines ordinarii	 £'000 £'000 £'000 £'000 £'000 £'000	313 18,159 2,332 133 4,284 3,809 8,226 1,962 1,931 8,884	661 24,614 15,117 656 31,317 27,535 59,508 8,643 7,917 20,884	664 23,409 15,117 687 31,822 27,236 59,745 9,339 8,159 20,315	665 23,492 16,052 744 34,769 29,035 64,548 9,939 8,143 22,911	657 22,939 16,124 770 38,002 28,615 67,387 10,910 8,539 21,858	663 22,851 16,421 787 34,701 31,325 66,813 12,144 9,353 23,290

The following quantities of yarn were used in these establishments during 1958-59:—Worsted or woollen 7,806,279 lb.; mixtures predominantly woollen or worsted, 1,203,362 lb.; cotton, 11,874,913 lb.; mercerised cotton, 228,434 lb.; rayon, spun, 759,025 lb.; rayon filament, 3,193,719 lb.; silk, 2,142 lb.; polyamides (nylon, etc.), spun 1,208,670 lb.; filament 2,665,262 lb.; other, including mixtures, 1,517,334 lb. Production of garments and stockings is shown in § 10 (see p. 192).

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Note.—Preliminary production figures for 1959-60 were: Woollen and Worsted Cloth, 30,170,000 square yards; Blankets and Rugs, 2,114,000.

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. 1958-59.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories,		36	13	8		1	123
Number of persons employed	1,779	1,911	565	205	(a)	(a)	4,617
Salaries and wages paid £'000	1,822	1,857	497	201	(a)	(a)	4,510
Value of power, fuel, etc., used £'000	187	219	45	25	(a)	(a)	490
Value of materials used £'000	5,429	4.578	1,628	584	(a)	(a)	12,635
Value of production £'000	2,748	2,696	922	351	(a)	(a)	6,919
Total value of output £'000	8,364	7,493	2,595	960	(a)	(a)	20,044
Value of land and buildings £'000	1,126	1,121	107	94	(a)	(a)	2,535
Value of plant and machinery £'000	881	856	252	160	(a)	(a)	2,223
Horse-power of engines ordinarily) "	(-)	_,
in use h.p.	12,561	11,404	3,683	1,925	(a)	(a)	30,749

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

Australia.

Items.			1938–39.	1954–55.	1955–56.	1956–57.	1957–58.	1958–59
Number of factories			132	140	137	133	124	123
Number of persons employed	٠,		4,375	5.393	4,972	4,746	4,708	4,617
Salaries and wages paid	٠,	£'000	920	4.518	4,468	4,383	4,413	4,510
Value of power, fuel etc., used		£'000	88	408	415	446	470	490
Value of materials used		£'000	2,983	10,675	11,180	11.738	11,938	12,635
Value of production		£'000	1,522	6,743	6,082	5,736	6,214	6,919
Total value of output		£'000	4,593	17,826	17,677	17,920	18,622	20,044
Value of land and buildings		£'000	814	2,219	2,176	2,314	2,341	2,535
Value of plant and machinery		£'000	524	2,128	2,231	2,264	2,154	2,223
Horse-power of engines ordinar	ily in		12,345	31,708	31.590	30,799	32,378	30,749

(ii) Materials Used and Articles Produced. The quantities of materials used and leather produced in tanneries in each State in 1958-59 are shown in the following table:—

TANNERIES: MATERIALS USED AND PRODUCTION, 1958-59.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Materials used—							-
Hides (cattle)—							
Yearling No		(a)	(a)	(a)	(a)		147,996
Light Hides(b) ,,	439,641				(a)	(a)	1,317,189
Heavy Hides (c) ,,	345,873	421,746	170,579	61,506	(a)	(a)	1,054,112
Skins							
Calf ,,	652,931	243,239	(a)	(a)			918,159
Goat "	(a)	(a)		::			523,392
Sheep including Pelts ,,	2,196,240	334,116	(a)	(a)			3,160,080
Marsupial "	38,433		66,377	(a)	(a)		111,127
Bark used-	1 '		,	1 '	`		
Wattle tons	1,596	3,994	751	(a)	l l	(a)	6,757
Mallet and Other ,,	(a)	337		1 1.	(a)	`.`	656
Tanning extract (veg.) used ,,	1,876	2,128	1,613		650	(a)	6,718
Articles produced—	, , , , , ,	,		(, ,		()	, ,,,,,
Leather made-		[
Sole Ib	6.268.139	12,122,047	5,922,253	(a)	(a)	(a)	26,601,172
Harness, Belting, etc. ,,	557 242	312,137			(a)	• • •	1,978,766
Upholstery sq. ft	(a)	(a)	(a)	(a)	(a)		959,927
Dressed and Upper from		()	()	(-)	(-)	• •	,,
Hides—							
Sold byMeasurement-	-!				1		
Patent sq. ft		(a)					738,084
All Other ,, ,,	24 059 962	24,595,023	8.772.423	4,550,811	963,900	(a)	63,270,161
Sold by Weight (al		2.,050,020	0,2,.25	1,000,011	202,300	()	55,2.5,151
kinds) lb		(a)				(a)	218,118
Dressed from skins-	(4)	(4)	• • •			()	
Calf sq. ft	4,338,318	2,004,051	(a)	(a)			6,526,843
O	(a)	(a)	(4)			• • • • • • • • • • • • • • • • • • • •	2,114,228
Chaom	8,418,175			(a)	::	• • •	10,750,208
Marguedal	192,849		372,236		(a)	::	741,142
Marsupiai ,, ,,	1,047	(4)	3.2,230	(4)	(4)		, ,,,,,,,

(a) Not available for publication; figures are included in the total for Australia. 45 lb. (c) Over 45 lb.

(b) Up to

18. Tailoring and Ready-made Clothing.—Statistics showing the distribution of this industry among the States in 1958-59 and for Australia for a series of years are shown in the following table:—

TAILORING AND READY-MADE CLOTHING.

1958-59.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	921	575	116	89	122	18	1,841
Number of persons employed	17,572	9,713	2,032	1,253	641	195	31,406
Salaries and wages paid £'000	10,936	6,536	975	696	288	102	19,533
Value of power, fuel, etc.,	,						-
used £'000	231	155	22	20	10	2	440
Value of materials used £'000	20,437	12,977	1,382	854	531	72	36,253
Value of production £'000	17,722	10,466	1,555	984	508	136	31,371
Total value of output £'000	38,390	23,598	2,959	1,858	1,049	210	68,064
Value of land and buildings £'000	6,124	4,134	533	644	421	92	11,948
Value of plant and machinery £'000	1,615	1,141	142	93	60	12	3,063
Horse-power of engines ordinarily in	-,015	-,		, ,	"		,
use h.p.	5,418	3,436	605	448	190	46	10,143

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Items.			1938–39.	1954–55.	1955–56.	1956–57.	1957–58.	1958-59.
Number of factories			1,177	1,985	1,952	1,944	1,914	1,841
Number of persons employed			26,499	33,384	32,587	31,920	31,457	31,406
Salaries and wages paid		£'000	3,168	17.968	18.261	18,760	19,337	19,533
Value of power, fuel, etc., used		£'000	72	390	393	416	422	440
Value of materials used		£'000	4,947	34,237	35.941	35.883	36,680	36,253
Value of production		£'000	4.812	28,031	28,940	29.811	31,117	31,371
Total value of output		£'000	9,831	62,658	65,274	66,110	68,219	68,064
Value of land and buildings		£'000	3,176	8,917	9,484	10,137	11.014	11,948
Value of plant and machinery		£'000	356	2,663	2,746	2,861	2.913	3,063
Horse-power of engines ordinaril	y in		2,607	9,198	9,017	9,133	9,671	10,143

19. Dressmaking and Millinery Establishments.—Particulars of dressmaking and millinery establishments in Australia for the years 1938-39 and 1954-55 to 1958-59 are shown in the following table:—

DRESSMAKING AND MILLINERY: AUSTRALIA.

Items.			1938–39.	1954–55.	1955-56.	1956–57.	1957–58.	1958–59.
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used	::	£'000 £'000	869 16,398 1,653 33	1,411 18,014 8,975 176	1,410 17,675 9,063	1,311 16,265 8,783 185	1,295 15,668 8,859 184	1,249 15,048 8,599 184
Value of materials used Value of materials used Value of production Total value of output Value of land and buildings Value of plant and machinery Horse-power of engines ordinar		£,000 £,000 £,000 £,000	2,610 2,592 5,235 2,052 189 1,732	13,109 14,501 27,786 5,256 1,123 4,740	13,029 14,585 27,791 5,788 1,174 4,697	12,447 14,244 26,876 5,966 1,152 4,635	11,999 14,220 26,403 6,693 1,246 4,558	11,272 13,766 25,222 6,937 1,171 5,159

20. Shirts, Collars and Underclothing.—Particulars of this industry are shown below for each State for 1958-59 and for Australia for a series of years:—

SHIRTS, COLLARS AND UNDERCLOTHING.

1958-59.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	162	169	23	24	14	2	394
Number of persons employed	4,880	6,621	1,091	421	(a)	(a)	13,589
Salaries and wages paid £'000	3,047	4,142	532	221	(a)	(a)	8,223
Value of power, fuel, etc., used £'000	58	70	9	5	(a)	(a)	147
Value of materials used £'000	7,261	7,845	661	268	(a)	(a)	16,410
Value of production £'000	4,698	7,108	745	302	(a)	(a)	13,271
Total value of output £'000	12,017	15,023	1,415	575	(a)	(a)	29,828
Value of land and buildings £'000	1,596	1,855	225	105	(a)	(a)	3,924
Value of plant and machinery £'000	533	636	75	22	(a)	(a)	1,317
Horse-power of engines ordinarily in	l				''		-
use h.p.	1,900	2,799	272	163	(a)	(a)	5,357

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

SHIRTS, COLLARS AND UNDERCLOTHING—continued. Australia.

Items.			1938-39.	1954-55.	1955–56.	1956–57.	1957–58	1958–59
Number of factories			283	392	404	397	384	394
Number of persons employed	٠.		11,081	12,745	12,686	13,157	13,038	13,589
Salaries and wages paid	٠.	£'000	1,143	6,702	6,957	7,640	7,718	8,223
Value of power, fuel, etc., used		£'000	23	106	119	129	134	147
Value of materials used		£'000	2,651	15.020	16,112	16,285	16,595	16,410
Value of production		£'000	1,761	10.927	11,328	12,051	11,945	13,271
Total value of output		£'000	4,435	26.053	27,559	28,465	28,674	29,828
Value of land and buildings		£'000	946	2,719	2,999	3,543	3,587	3,924
Value of plant and machinery	••	£'000	231	1.053	1,146	1,229	1,233	1,317
Horse-power of engines ordinaril	y in		1,874	4,468	4,881	5,177	5,064	5,357

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 223.

BOOTS AND SHOES.

1958-59.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.(a)	Aust.
Number of factories	172	215	27	15	12	.41	482
Number of persons employed	6,369	11,231	1.082	1,095	512	160	20,449
Salaries and wages paid £'000	4,751	8,328	760	886	333	90	15,148
Value of power, fuel, etc., used £'000	85	156	11	14	7	2	275
Value of materials used £'000	7,240	14,786	1,211	1,403	449	133	25,222
Value of production £'000	6,998	12,730	924	1,285	426	167	22,530
Total value of output £'000	14,323	27,672	2,146	2,702	882	302	48,027
Value of land and buildings £'000	1,586	2,915	198	258	166	131	5,254
Value of plant and machinery £'000		2,684	245	420	142	35	4,307
Horse-power of engines ordinarily in	1	, , ,					,
use h.p.	4,812	10,153	936	940	575	156	17,572

Australia.

Items.			1945-46.	1954–55.	1955–56.	1956–57.	1957-58.	1958–59
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings Value of plant and machinery Horse-power of engines ordinaril	 y in 1	£'000 £'000 £'000 £'000 £'000 £'000 £'000	383 18,264 4,408 75 7,520 6,472 14,067 1,518 1,222 9,678	516 22,323 14,241 227 21,020 19,640 40,887 3,733 3,380 17,488	494 21,557 14,310 233 21,812 20,480 42,525 3,846 3,646 16,485	474 21,432 15,234 257 22,221 21,222 43,700 4,267 3,715 16,496	486 20,839 15,090 266 22,854 22,019 45,139 4,567 3,979 16,663	482 20,449 15,148 275 25,222 22,530 48,027 5,254 4,307 17,572

⁽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 1958-59 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, 1958-59.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Boots, shoes and sandals pairs £ Slippers pairs £	8,088,698 13,833,377 2,274,139 1,633,664	23,242,898 5,696,595		1,565,949 2,656,937 35,805 27,530	743,210 (a)		24,054,400 42,525,498 8,535,305 5,065,477

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

Preliminary figures for 1959-60 were—Boots, Shoes and Sandals, 25,378,000 pairs; and Slippers, 9,708,000 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 1958-59 and for Australia for a series of years:—

FLOUR-MILLING.

1958-59.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W., Aust.	Tas.	Aust.
Number of factories Number of persons employed Salaries and wages paid . £'000 Value of power, fuel, etc., used Value of materials used . £'000 Value of production . £'000	46 1,496 1,566 318 17,910 4,125	33 1,279 1,286 218 16,352 3,046	12 532 484 88 5,668 916	21 440 426 87 5,218 740	20 428 386 101 5,536 773	3 126 133 15 1,122 216	135 4,301 4,281 827 51,806 9,816
Total value of output £'000 Value of land and buildings £'000 Value of plant and machinery £'000 Horse-power of engines ordinarily in use h.p.	22,353 2,705 2,419 18,359	19,616 1,969 1,543	6,672 820 843 5,435	6,045 413 449 3,821	6,410 735 571 5,280	1,353 69 77 1,118	62,449 6,711 5,902 48,684

AUSTRALIA.

_ Items.	1938–39.	1954–55.	1955–56.	1956–57.	1957–58.	1958–59.
Number of persons employed Salaries and wages paid . £'00 Yalue of power, fuel, etc., used £'00 Value of materials used . £'00 Value of production . £'00 Total value of output . £'00	00 231 00 10,573 00 2,091 00 12,895	151 4,528 3,851 805 54,436 7,311 62,552	151 4,548 4,073 835 54,498 7,575 62,908	143 4,729 4,375 946 59,094 9,608 69,648	142 4,284 4,190 827 53,659 9,934 64,420	135 4,301 4,281 827 51,806 9,816 62,449
Value of land and buildings £'00 Value of plant and machinery £'00 Horse-power of engines ordinarily in use h.	00 1,814	4,533 5,060 46,566	5,211 5,405 47,786	5,686 5,690 48,103	6,322 5,962 48,449	6,711 5,902 48,684

(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 1954-55 to 1959-60 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
1954–55 · 1955–56 ·	586,549	455,906	157,904	143,840	178,851	29,969	1,553,019
	571,084	454,628	169,793	154,327	193,490	27,983	1,571,305
1956–57	621,476	492,956	170,397	164,274	184,717	29,157	1,662,977
	416,490	482,731	143,613	138,537	163,347	28,739	1,373,457
1958–59	455,709	428,280	151,457	137,806	160,909	29,707	1,363,868
1959–60 (b)	539,055	427,491	161,507	148,340	153,549	30,384	1,460,326

⁽a) Includes wheatmeal for baking and sharps.

⁽b) Preliminary, subject to revision.

In addition, 520,000 tons (2,000 lb. per ton) of bran and pollard were produced in 1958-59 and 533,000 tons in 1959-60. The total quantity of wheat ground in flour mills was 61,830,000 bushels in 1958-59 and 67,201,000 bushels in 1959-60.

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).

1958-59.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.(a)	Aust.(a)
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used £'000 Value of materials used . £'000 Value of production . £'000 Total value of output . £'000 Value of land and buildings	1,643 8,026 5,478 1,034 17,152 12,730 30,916 9,274	1,253 6,043 3,820 745 12,081 9,032 21,858 7,041	527 2,467 1,356 271 5,039 3,395 8,705 1,692	270 1,654 1,109 196 3,638 2,438 6,272 1,574	301 1,063 598 131 2,325 1,614 4,070 1,024	156 1,741 1,368 169 5,377 2,973 8,519 1,615	4,150 20,994 13,729 2,546 45,612 32,182 80,340 22,220
Value of plant and machinery £'000 Horse-power of engines ordinarily in use h.p.	4,826 11,911	3,753 8,030	1,181 3,352	1,017 3,082	1,998	2,067 5,343	13,551 33,716

Australia.(a)

Items.		1938–39.	1954–55.	1955–56.	1956–57.	1957–58.	1958-59
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings Value of plant and machinery Horse-power of engines ordinari	 £'000 £'000 £'000 £'000 £'000 £'000	1,958 11,715 1,993 306 6,651 4,509 11,466 4,960 1,478 10,855	3,800 19,125 10,648 1,902 35,899 23,582 61,383 14,352 8,373 27,815	3,878 19,543 11,611 2,090 37,820 26,418 66,328 15,865 9,461 29,535	3,813 19,964 12,663 2,308 40,704 29,706 72,718 17,991 10,590 30,204	3,986 20,323 13,110 2,440 43,476 29,816 75,732 20,205 11,797 32,162	4,150 20,994 13,729 2,546 45,612 32,182 80,340 22,220 13,551 33,716

(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 included 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 1954-55 to 1958-59:—

	S	UGAR-MI	LLS			
Items.	1938–39.	1954–55.	1955-56.	1956–57.	1957–58.	1958–59.
	Nev	w Sоитн `	Wales.		' <u> </u>	
Number of factories Number of persons employed. Cane crushed tons Raw sugar produced (94 net titre) tons	3 212 337,038 45,106	3 187 222,313 26,301	3 152 284,539 36,028	3 153 294,087 35,918	3 170 303,086 36,854	3 254 471,658 58,743
	<u>' </u>	QUEENSLAI	ND.			<u>'</u>
Number of factories Number of persons employed. Cane crushed tons Raw sugar produced (94 net titre) tons Molasses— Sold to distilleries. '000 gals Used as fodder, " Used as manure, " Run to waste, " Burnt as fuel, " Sold or used for other pur- poses '000 gals Total molasses disposed of '000 gals	33 4,419 5,432,193 775,064 8,276 4,237 3,293 499 3,749 232 20,286	31 7,272 9,864,304 1,301,245 23,167 5,753 10,501 233 1,079 473 41,206	7,044 8,616,163 1,135,685 22,772 5,285 10,637 185 1,519 588 40,986	31 7,099 8,978,081 1,171,879 24,094 5,536 9,177 51 1,405 523 40,786	31 6,547 8,945,617 1,256,271 20,558 4,861 10,880 285 284 508 37,376	31 6,621 9,740,795 1,353,543 24,045 6,028 10,059 106 111 507 40,856

- 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 1958-59, 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 536,086 tons for a yield of 518,921 tons of refined sugar.
- 26. Confectionery.—Particulars for 1958-59 for each State and for Australia for a series of years are shown hereunder:—

CONFECTIONERY.

		1958-59	9				
Items.	n.s.w.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.(b)
Number of factories Number of persons employed Salaries and wages paid £'000 Value of power, fuel, etc., used £'000 Value of materials used . £'000 Value of production . £'000 Total value of output . £'000 Value of land and buildings £'000 Value of plant and machinery £'000 Horse-power of engines ordinarily in use h.p.	85 2,858 2,270 260 8,204 5,474 13,938 2,263 2,209	84 3,061 2,282 229 7,111 4,287 11,627 2,075 2,069	20 174 87 9 364 154 527 93 69	14 347 219 23 611 308 942 284 144	6 264 179 15 552 363 930 97 81	(a) (a) (a) (a) (a) (a) (a) (a) (a)	209 6,704 5,037 536 16,842 10,586 27,964 4,812 4,572 30,504
	A	USTRALIA	1.(b)				
Items.		1938–39.	1954-55	1955–56.	1956–57.	1957-58.	1958-59.
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of production Total value of output Value of land and buildings Value of plant and machinery Horse-power of engines ordinarily in	£'000 £'000 £'000 £'000 £'000 £'000 £'000	148 7,256 1,041 107 3,102 2,418 5,627 1,423 1,364 16,154	238 7,069 4,516 447 14,917 8,320 23,684 2,964 3,368 27,374	226 7,183 4,805 473 15,583 8,932 24,988 3,324 3,612 29,156	213 6,818 4,866 509 15,391 9,885 25,785 3,239 3,582 27,348	217 6,789 4,982 529 16,052 9,771 26,352 4,351 3,891 29,256	209 6,704 5,037 536 16,842 10,586 27,964 4,812 4,572 30,504

⁽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 1958-59 and for Australia for a series of years:—

JAM, FRUIT AND VEGETABLE CANNING, PICKLES, SAUCES, VINEGAR. 1958-59.

Items.	N.S.W.	Vic.	'Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	.53	60	19	19	9	20	180
Number of persons employed	2,530	4,425	1,484	926	118	1,279	10,762
Salaries and wages paid £'000	2,118	4,002	1,404	643	85	934	9,186
Value of power, fuel, etc., used £'000		468	i 84	55	8	84	949
Value of materials used . £'000	7.835	19,829	6,219	1,879	287	2,309	38,358
Value of production £'000	4,100	8,440	2,312	1,142	196	1,268	17,458
Total value of output £'000	12,185	28,737	8,615	3,076	491	3,661	56,765
Value of land and buildings £'000	2,340	6,858	764	659	147	862	11,630
Value of plant and machinery £'000	1,742	5,451	490	975	67	848	9,573
Horse-power of engines ordinarily			1	1	1 1		
in use h.p.	10,163	28,565	2,771	2,521	378	4,141	48,539

			AUSTRAL	[A.				
Items.			1938–39.	1954-55.	1955–56.	1956–57.	1957–58.	1958–59.
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of materials used Value of production Total value of output	::	£'000 £'000 £'000 £'000	123 6,476 1,149 97 4,800 2,334 7,231	184 11,061 7,945 699 29,708 15,312 45,719	183 11,578 8,924 802 32,323 16,103 49,228	182 12,019 9,698 957 39,874 18,792 59,623	187 11,407 9,752 978 41,159 19,753 61,890	180 10,762 9,186 949 38,358 17,458 56,765
Value of land and buildings Value of plant and machinery Horse-power of engines ordinari	ly in	£'000 £'000	1,382 721 7,873	6,193 5,496 32,661	8,874 8,083 38,508	9,790 8,752 45,820	10,621 9,275 55,824	11,630 9,573 48,539

⁽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 again to 78.2 million lb. in 1958-59. Preliminary figures for 1959-60 show production as being 84.5 million lb.

Production of preserved fruit in 1958-59 was 312.6 million lb., the highest on record being 349.4 million lb. in 1957-58. Preliminary figures for 1959-60 show production as being 339.8 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 1958-59 amounted to 66.9 million lb. Preliminary figures for 1959-60 show production as being 81.6 million lb.

The following table shows the total quantity of jams, pickles, sauces and other items manufactured in each State in 1958-59:—

JAMS, PRESERVED FRUIT AND VEGETABLES, PICKLES AND SAUCES: 1958-59.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Jams '000 lb. Fruit, preserved, Fruit Pulp(b) cwt. Fruit Juices, natural '000 gals. Vegetables, preserved '000 lb.	36,914 (a) 357 27,528	33,639 151,393 (a) 160 25,664	9,728 87,142 (a) 3,951 (a)	(a) 19,778 (a) (a) (a)	(a) (a) (a) (a)	(a) (a) 51,315 66 (a)	78,234 312,563 114,113 5,073 66,883
Pickled Vegetables Tomato Pulp(b) Tomato Paste, Puree, etc., '000 pints		1,136 381,931 1,223	(a)	1,131 27,007	(a) (a)	(a) (a)	7,646 458,410 2,507
Tomato Juice'000 gals. Pickles'000 pints	49	1,949	(a) (a)	422 1,164	(a)		1,468 5,210
Chutney, ,, ,, ,,	335 11,827	396 13,819	(a) 1,401	(a) 2,528	(a) (a)	(a)	1,143 30,694
Soup (canned) ", ", ", Soup, Dry Mix '000 lb.	2,920 (a)	28,075 350	79	(a) (a)	(a) (a)	! ::	31,480 4,329

⁽a) Not available for publication. Figures are included in the total for Australia. quantities made and used in the works producing them.

⁽b) Includes

28. Bacon-curing.—(i) Details of Industry. The table hereunder shows particulars of factories engaged in bacon-curing in each State for 1958-59 and for Australia for a series of years:—

BACON-CURING.

1958-59.

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 persons employed	697	847	1,660	545	301	112	4,162
Salaries and wages paid £'000	658	762	1,394	502	232	101	3,649
Value of power, fuel, etc., used £'000	86	105	119	70	39	12	431
Value of materials used £'000	4,632	5,859	8,339	2,922	2,450	835	25.037
Value of production £'000	1.442	1,233	2,579	650	304	265	6,473
Total value of output £'000	6,160	7,197	11,037	3,642	2,793	1,112	31.941
Value of land and buildings £'000	670	676	1.025	458	132	143	3,104
Value of plant and machinery £'000 Horse-power of engines ordinarily	288	402	671	302	103	40	1,806
in use h.p.	2,153	2,878	5,096	2,343	1,125	513	14,108

AUSTRALIA.

Items.		1938–39.	1954–55.	1955–56.	1956–57.	1957-58.	1958–59
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings	 £'000 £'000 £'000 £'000 £'000	76 2,047 480 77 3,768 865 4,710 750	84 3,201 2,517 322 18,318 5,715 24,355 1,956	82 3,414 2,754 339 20,814 4,997 26,150 2,308	81 3,472 2,956 362 22,373 5,273 28,008 2,452	80 3,745 3,311 403 22,147 6,798 29,348 2,667	80 4,162 3,649 431 25,037 6,473 31,941 3,104
Value of plant and machinery Horse-power of engines ordinari	 £'000	357 9,389	1,100 11,791	1,329 13,019	1,512 13,472	1,654 14,747	1,806

(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 1958-59 are shown in the following table:—

BACON-CURING FACTORIES: PIGS CURED AND PRODUCTION, 1958-59.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Pigs killed for bacon and ham—							
For curing on own account	155,046	147,617	276,083	76,504	101.893	38,111	795,254
For curing on commission	10,174	2,502	2,177	975	(a)	(a)	16,296
Pork and green bacon used						()	1 - 1,2 - 5
for—				:	' ;		
Curing on own account							
'000 lb.	5,222	4,850	105	1,154	(a)		12,016
Curing on commission					1		
'000 lb.	5,613	277		(a)		(a)	5,897
Sugar used ton	42	36	146	24	31	16	295
Finished bacon and ham				ŀ	i i		
made (b)—				(
On own account '000 lb.	16,500	15,550	21,147	6,392	6,600	1,808	67,997
On commission	5,890	498	283	105	(a)	(a)	6,818
Green bacon and ham	567	1,805	708	546	324	300	4,250
Lard produced cwt.	3,963	4,933	18,925	4,162	6,177	962	39,122

(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 1958-59 and for Australia for a series of years:—

BUTTER, CHEESE AND CONDENSED AND DRIED MILK. 1958-59.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	1 77	127	78	41	19	21	363
Number of persons employed	2,405	5,452	1,621	732	325	362	10,897
Salaries and wages paid £'000	2,230	5,465	1,377	580	277	341	10,270
Value of power, fuel, etc., used £'000	732	1,528	319	101	63	73	2,816
Value of materials used . £'000	17,291	51,382	20,776	4,877	3,033	4,570	101,929
Value of production £'000	4,441	11,799	2,783	1,104	615	704	21,446
Total value of output £'000	22,464	64,709	23,878	6,082	3,711	5,347	126,191
Value of land and buildings £'000	3,356	6,763	1,956	675	379	389	13,518
Value of plant and machinery £'000	3,653	7,995	2,558	713	447	453	15,819
Horse-power of engines ordinarily			-	;	1 1		
in use h.p.	31,171	39,283	24,826	6,960	3,078	2,562	107,880

Australia. 1938-39. 1954-55. 1955-56. 1956-57. 1957-58. 1958-59. Items. Number of factories 10,897 10,270 2,816 6,851 1,570 390 11,119 9,568 2,741 10,870 9,995 2,692 Number of persons employed 10,567 £'000 £'000 8,680 2,423 100,706 10,068 2,797 101,517 Salaries and wages paid ... Value of power, fuel, etc. used Value of materials used ... 101,929 94,566 19,561 29,162 106,883 19,265 123,579 11,985 14,631 Value of production £'000 18,893 128,517 11,188 13,923 118,523 10,037 12,553 126,191 13,518 15,819 Total value of output 33,095 116,819 2,880 | 3,067 | 12,558 15,254 Value of land and buildings £'000 Value of plant and machinery Horse-power of engines ordinarily in use h.p. 45.059 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 1958-59. These details are restricted to factory production and therefore exclude farm output.

BUTTER, CHEESE AND CONDENSED MILK, ETC., FACTORIES: PRODUCTION. 1958-59.

	Items.			N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Total.
				Ma	TERIALS	Used.				
Whole Milk use	d in mar	ufactur	e of	1	i	1	1	1 1		
Butter	••	'000		175,381	411,443	184,030	29,879	27,685	48.056	876,474
Cheese			-	10,745	37,638	18,625	24,280	2,600	836	94,724
Condensed, 1	Dried and	other N	Milk	1) 1	1	1	j ' 1		, ,
Products		'000	gal,	14,912	60,859	7,831	4	3,715	2,941	90,262
Sugar			ton	1,109	12,658	(a)		(a)	(a)	15,571

Production. (Tons.)

Butter		37,733	88,143	41,022	7,055	6,166	10,804	190,923
Cheese (Green Weight)		5,044	17,440	8,220	11,200	1,181	339	43,424
Cheese (Processed) (b)		(a)	(a)	1.682			(a)	14,367
Casein		856	10,423	(a)		(a)	l `´	11,328
Condensed, Concentrated	and		, , ,	` ′				, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Evaporated Milk-							!	
Full Cream—Sweetened		(a)	27.986			(a)		31,626
Unsweetened		(a)	14,265	(a)		(a)	(a)	29,846
Skim and/or Buttermilk		(a)	(a)	(a)		(a)		4,943
Milk Powder—		\ **/		\ ` '		,		.,
Full Cream		5,389	10,929	(a)	(a)			19,183
Skim		11,496	21,154	~706	(a)	(a)		34,128
Buttermilk and Whey		1.050	3,013	1,306	(a)	(a)	(a)	6.024
Other Whole Milk Products	::	(a)	(a)	(a)		((a)	14,134
Ice Cream Mix—Powder		(a)	524	(a)	(a)	(a)		642
rec Cream max 10 waer	• • •	(4)		(4)	()	(4)	• • •	042

⁽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. 1958-59.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	8	13	35	20	35	4	115
Number of persons employed	494	740	7,113	294	1,448	53	10,142
Salaries and wages paid £'000	433	754	7,805	210	1,433	64	10,699
Value of power, fuel, etc., used £'000	80	186	834	34	151	7	1,292
Value of materials used £'000	2,166	4,604	50.028	1.491	3,414	113	61,816
Value of production £'000	961	1,727	10,217	318	2,040	91	15,354
Total value of output £'000	3,207	6,517	61,079	1,843	5,605	211	78,462
Value of land and buildings £'000	277	985	3,765	215	2,136	81	7,459
Value of plant and machinery £'000	199	1.010	2,836	163	1,030	23	5,261
Horse-power of engines ordinarily		-,	_,		/		-,201
in use h.p.	1,259	4,199	23,749	1,075	8,344	368	38,994

			USTRALI	Α.				
Items.			1938–39.	1954–55.	1955–56.	1956-57.	1957–58.	1958–59.
Number of factories Number of persons employed Salaries and wages paid	::	£'000	32 4,093 1,180	114 9,432 8.327	116 9,550 8,704	113 8,866 8,366	114 8,878 8,690	115 10,142 10,699
Value of power, fuel, etc. used Value of materials used Value of production	::	£'000 £'000	134 6,351 1,601	1,110 46,642 12,182	1,119 46,359 14,345	1,099 45,483 14,385	1,128 45,695 13,723	1,292 61,816 15,354
Total value of output Value of land and buildings Value of plant and machinery	::	£'000 £'000	8,086 1,966 1,325	59,934 5,403 3,409	61,823 5,934 4,118	60,967 6,241 4,147	60,546 6,710 4,594	78,462 7,459 5,261
Horse-power of engines ordinarily	y in		13,385	35,600	33,086	36,517	36,956	38,994

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 1958-59 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 works, aerated waters, etc.

BREWERIES. 1958-59.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	6	7	6	3	3	2	
Number of persons employed	1,923	1,889	843	(a)	(a)	(a)	5,830
Salaries and wages paid £'000	2,113	2,060	800	(a)	(a)	(a)	6,232
Value of power, fuel, etc. used £'000	552	389	213	(a)	(a)	(a)	1,488
Value of materials used £'000	8.228	7,773	2,303	(a)	(a)	(a)	22,416
Value of production £'000	6.592	3,814	2,482	(a)	(a)	(a)	16,964
Total value of output(b) £'000	15,372	11.976	4,998	(a)	(a)	(a)	40,868
Value of land and buildings £'000	4,025	3,038	3,023	(a)	(a)	(a)	12,716
Value of plant and machinery £'000	5,711	4,249	2,327	(a)	(a)	(a)	15,727
Horse-power of engines ordinarily	.,	.,	_,	(-)	`	()	,
in use h.p.	15,369	12,860	8,965	(a)	(a)	(a)	46,525

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

⁽b) Excludes

BREWERIES—continued. AUSTRALIA.

Items.			1938–39.	1954–55.	1955–56.	1956-57.	1957-58.	1958–59.
Number of factories	• • •		34	30	28	27	26	27
Number of persons employed			3,698	6.791	6,835	6,107	5,909	5,830
Salaries and wages paid		£'000	1.215	6,272	6,588	6,196	6,228	6,232
Value of power, fuel, etc., used		£'000	251	1,369	1,396	1,509	1,479	1,488
Value of materials used		£'000	3,407	20,810	22,437	21,238	22,146	22,416
Value of production		£'000	5,372	14,855	15.224	16,266	17,271	16,964
Total value of output(a)		£'000	9,030	37,034	39,057	39.013	40.896	40,868
Value of land and buildings		£'000	2,801	8,307	10,099	11.069	11.797	12,716
Value of plant and machinery		£'000	2,737	10,295	12,917	14,863	15,510	15,727
Horse-power of engines ordinaril	y in t	ise h.p.	23,231	42,359	44,908	45,268	44,869	46,525

(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 1959-60 amounted to over 237 million gallons.

The average annual consumption of ale, beer and stout per head of population exceeded 11 gallons prior to the economic depression of the early thirties; 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 from 1942 to 1946. The consumption per head had increased to 22.6 gallons by 1959-60.

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 1958-59:—

BREWERIES: MATERIALS USED AND PRODUCTION, 1958-59.

	It	ems.	N.\$.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
				Mater	IALS USED				
Malt Hops Sugar		'000 bus. '000 lb. ton	2,463 1,951 20,323	(a) (a) (a)	755 504 4,592	(a) (a) (a)	(a) (a) (a)	(a) (a) (a)	6,525 4,317 42,528
		ALE, BEER	R AND STO	UT BRE	WED (EXCL	.uding W	ASTE BEER).	
Quanti Value ('000 gals. £'000	91,685 15,183	(a) (a)	24,695 4,949	(a) (a)	(a) (a)	(a) (a)	223,597 40,171

⁽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 1958-59 and for Australia for a series of years:—

WINERIES AND DISTILLERIES. 1958-59.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	32	27	- 5	72	22		158
Number of persons employed	229	309	158	1,254	71		2,021
Salaries and wages paid £'000	237	280	155	1,114	41		1,827
Value of power, fuel, etc., used £'000	127	57	70	139	3		396
Value of materials used . £'000	2,318	665	511	4.260	146		7,900
Value of production £'000	640	857	290	2,008	94		3,889
Total value of output £'000	3.085	1,579	871	6,407	243		12,185
Value of land and buildings £'000	395	382	115	1,622	74		2,588
Value of plant and machinery £'000	557	360	357	1,234	65		2,573
Horse-power of engines ordinarily in				(,	1		1 7
use h.p.	1.364	1,188	777	7,086	358		10,773

WINERIES AND DISTILLERIES-continued.

AUSTRALIA.

Items.			1938-39.	1954–55.	1955–56.	1956-57.	1957–58.	1958-59.
Number of factories			135	158	155	157	160	158
Number of persons employed			1,133	2,022	1,908	2,027	2,066	2,021
Salaries and wages paid		£'000	246	1,506	1,532	1,699	1,800	1,827
Value of power, fuel, etc., used		£'000	58	387	368	423	426	396
Value of materials used		£'000	1,421	4,885	5,074	6,461	7,448	7,900 3,889
Value of production		£'000	811	2,846	2,890	3,704	4,569	3.889
Total value of output		£'000	2,290	8,118	8,332	10,588	12,443	12,185
Value of land and buildings		£'000	1,002	2,312	2,254	2,363	2,458	2,588
Value of plant and machinery		£'000	916	2,170	2,099	2,348	2,339	2,573
Horse-power of engines ordinari	y in	use h.p.	4,396	11,054	11,159	11,412	11,548	10,773

33. Tobacco, Cigars and Cigarettes.—Particulars of establishments in which the manufacture of tobacco, cigars or cigarettes was carried on during 1958-59 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.

1958-59.

Items.		N.S.W.	Vic.	Q'land.	W. Aust.	Aust.
Value of power, fuel, etc., used	E'000 E'000 E'000 E'000 E'000	8 2,763 2,432 78 21,429 8,196 29,703 990 2,124	8 1,918 1,694 78 14,250 5,211 19,539 1,541 1,962	(a) (a) (a) (a) (a) (a) (a) (a) (a)	(a) (a) (a) (a) (a) (a) (a) (a) (a) (a)	22 4,779 4,178 160 35,775 13,451 49,386 2,700 4,178
Horse-power of engines ordinarily in use	h.p.	5,462	4,502	(a)	(a)	10,384

AUSTRALIA.

Items.			1938–39.	1954–55,	1955–56.	1956-57.	1957–58.	1958–59
Number of factories			30	34	33	29	27	
Number of persons employed			5,544	4,707	4.622	4,630	4,754	4.779
Salaries and wages paid		£,000	1,096	3,516	3,728	4,038	4,203	4,178
Value of power, fuel, etc., used		£'000	34	158	128	127	145	160
Value of materials used		£,000	7.081	28,825	31,227	33.535	35,408	35.775
Value of production		£'000	2,685	9,745	9,244	10,999	11,177	13,451
Total value of output(b)		£'000	9,800	38,728	40,599	44,661	46,730	49,386
Value of land and buildings		£'000	1,042	1,504	1,867	1,764	2,962	2,700
Value of plant and machinery		£'000	943	2,190	2,784	3,059	4,156	4,178
Horse-power of engines ordinaril	y in	use h.p.	4,610	8,466	10,778	10,990	10,586	10,384
Leaf used-								
Australian (stemmed)		'000 1ь.	4,489	4,482	5,204	5.299	7,158	8,792
Imported (stemmed)		'000 lb.	16.011	36,053	37,399	40,860	38,369	40,179
Tobacco made		'000 lb.	16,305	21,466	18.836	18,917	18,192	17,087
Cigars made		'000 lb.	238	151	132	114	119	109
Cigarettes made		'000 lb.	6,731	22,859	27,162	30,513	32,748	35,255

(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 1958-59 usage was 8.8 million lb. For further information see Chapter XXII.—Agricultural Production.

Imports of tobacco during 1958-59 comprised: manufactured tobacco, 367,441 lb., cigars, 91,394 lb., cigarettes, 386,789 lb., unmanufactured tobacco, 38,678,767 lb.; and in 1959-60 were 591,796 lb., 139,714 lb., 975,434 lb. and 37,004,900 lb. respectively.

34. Sawnills, etc.—The most important industry in Class X. is sawnilling. Because of difficulties associated with the classifying of sawnills 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.

1958-59.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used £'000 Value of materials used £'000 Value of production £'000 Value of land and buildings £'000 Value of plant and machinery £'000 Value of plant and machinery £'000 Horse-power of engines ordinarily in	1,012 10,826 8,966 740 24,103 17,191 42,034 5,415 5,181	553 7,257 6,375 521 15,348 11,909 27,778 3,071 3,317	586 8,425 6,494 444 13,446 10,664 24,554 1,936 3,516	95 2,491 2,134 160 6,501 3,815 10,476 2,341 2,820	245 4,289 3,367 304 5,761 6,050 12,115 892 1,981	314 2,603 2,142 213 5,094 4,020 9,327 890 1,922	2,805 35,891 29,478 2,382 70,253 53,649 126,284 14,545 18,737
use h.p.	119,477	81,950	90,605	26,955	42,007	34,636	395,630

Australia.

Items.		1938–39.	1954–55.	195556.	1956–57.	1957–58.	1958-59
Salaries and wages paid . Value of power, fuel, etc., used . Value of materials used . Value of production . Total value of output . Value of land and buildings	£'000 £'000 £'000 £'000 £'000 £'000	1,639 19,056 3,626 225 8,441 5,762 14,428 2,029 2,777 89,843	3,033 36,631 25,530 1,805 61,073 45,319 108,197 10,321 14,896 359,786	3,025 37,102 27,086 1,938 65,618 47,042 114,598 11,136 16,201 371,003	3,000 35,835 27,563 2,056 66,817 47,928 116,801 12,079 17,086 378,902	2,910 35,185 27,932 2,143 69,644 50,246 122,033 13,924 17,971 380,203	2,805 35,891 29,478 2,382 70,253 53,649 126,284 14,545 18,737 395,630

The sawmill output of Australian grown 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 1959–60 had risen to 1,500 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 1958-59 and for Australia for a series of years.

CABINET AND FURNITURE MAKING AND UPHOLSTERY, 1958-59.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories Number of persons employed Salaries and wages paid . £'000 Value of power, fuel, etc., used Value of materials used . £'000 Value of production . £'000 Total value of output . £'000 Value of land and buildings Value of pant and machinery £'000	570 6,225 5,541 139 10,405 8,992 19,536 4,304 971	505 4,716 3,886 101 5,713 6,578 12,392 3,509 842	232 2,261 1,541 39 2,686 2,453 5,178 1,131 355	121 1,436 1,081 31 1,761 1,731 3,523 725 279	150 1,010 676 19 1,288 1,080 2,387 590 179	51 364 238 5 369 394 768 198 53	1,629 16,012 12,963 334 22,222 21,228 43,784 10,457 2,679
Horse-power of engines ordinarily in use h.p.	16,013	13,785	6,746	5,161	3,628	1,206	46,539

CABINET AND FURNITURE MAKING AND UPHOLSTERY-continued.

AUSTRALIA.

Items.		1938–39.	1954–55.	1955–56.	1956–57.	1957–58.	1958–59.
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of material used Value of production Total value of output Value of land and buildings Value of plant and machinery Horse-power of engines ordinaril	 £'000 £'000 £'000 £'000 £'000 £'000	880 11,576 2,139 64 3,380 3,223 6,667 1,897 574 18,971	1,658 15,271 10,067 258 16,538 15,888 32,684 6,204 2,196 46,413	1,642 15,250 10,840 272 17,470 17,064 34,806 6,799 2,292 46,957	1,635 15,164 11,193 289 17,926 18,059 36,274 7,759 2,424 45,096	1,644 15,929 12,462 311 20,860 20,163 41,334 9,069 2,515 46,447	1,629 16,012 12,963 334 22,222 21,228 43,784 10,457 2,679 46,539

36. Printing Works.—Printing and bookbinding rank high in importance among the industries of Australia and in 1958-59 afforded employment for 41,705 employees, and paid £38,995,268 in salaries and wages while the value of output amounted to £130,259,383. The following table gives particulars of establishments engaged in general printing in each State for 1958-59 and for Australia for a series of years. These establishments include those engaged in lithographic printing, bookbinding, paper ruling and linotyping and Government printing works.

GOVERNMENT AND GENERAL PRINTING WORKS, 1958-59.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories Number of persons employed Salaries and wages paid . £'000 Value of power, fuel, etc., used £'000 Value of materials used . £'000 Value of production . £'000 Total value of output . £'000 Value of land and buildings Value of plant and machinery £'000 Horse-power of engines ordinarily in use h.p.	667 10,999 10,204 325 14,911 17,535 32,771 9,209 7,433 17,762	542 9,669 8,748 269 12,323 15,581 28,173 6,769 6,672	114 2,417 1,785 49 1,878 2,925 4,852 963 1,165 2,783	86 1,688 1,389 38 1,609 2,270 3,917 826 1,090 2,344	82 1,438 1,080 33 1,224 1,938 3,195 750 834 2,116	27 616 499 15 475 787 1,277 524 341	1,518 26,827 23,705 729 32,420 41,036 74,185 19,041 17,535

Australia.

Items.		1938–39.	1954–55.	1955–56.	1956–57.	1957–58.	1958–59.
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings Value of plant and machinery Horse-power of engines ordinarily	£'000 £'000 £'000 £'000 £'000 £'000 £'000	1,028 18,369 3,435 110 3,703 5,749 9,562 3,956 3,186 17,759	1,285 23,571 17,672 511 23,950 28,968 53,429 10,120 11,769 34,507	1,347 24,453 19,421 551 25,792 32,075 58,418 11,715 13,560 35,667	1,399 25,271 20,632 621 27,202 35,136 62,959 13,310 14,586 36,784	1,431 25,916 22,099 38,068 68,552 15,084 15,705 37,963	1,518 26,827 23,705 729 32,420 41,036 74,185 19,041 17,535 40,751

The following table gives similar particulars in respect of establishments producing newspapers and periodicals:—

NEWSPAPERS AND PERIODICALS, 1958-59.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories Number of persons employed Salaries and wages paid . £'000 Value of power, fuel, etc., used £'000 Value of materials used . £'000 Value of production . £'000 Value of production . £'000 Value of land and buildings £'000 Value of plant and machinery £'000 Horse-power of engines ordinarily in use h.p.	177 6,959 7,233 286 11,823 12,961 25,070 7,514 6,423 14,990	128 3,317 3,471 135 8,660 6,173 14,968 2,350 2,211	58 2,288 2,141 79 3,205 3,985 7,269 1,398 1,498	36 1,169 1,183 39 2,268 2,260 4,567 1,478 682 3,465	19 737 819 41 1,408 1,749 3,198 771 561	5 408 444 10 382 610 1,002 228 220	423 14,878 15,291 590 27,746 27,738 56,074 13,739 11,595

AUSTRALIA.

Items.			1938–39.	1954–55.	1955–56.	1956–57.	1957–58.	1958-59
Number of factories			472	413	416	412	407	423
Number of persons employed			10,091	13,675	14,446	14,640	14,387	14,878
Salaries and wages paid		£'000	2.667	11,598	13,273	13,134	13,997	15,291
Value of power, fuel, etc., used		£'000	131	493	511	551	562	590
Value of materials used		£'000	3,131	22,391	23,491	24,009	25,299	27,746
Value of production		£'000	4,561	20,902	23,437	25,110	25,580	27,738
Total value of output		£'000	7,823	43,786	47,439	49,670	51,441	56,074
Value of land and buildings		£'000	3,755	7,277	9,414	10,763	12,112	13,739
Value of plant and machinery		£'000	2.970	9.214	10,716	11,315	10,833	11,595
Horse-power of engines ordinarily	v in us		22,497	36,610	40,305	36,980	37,440	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, while 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 217,000 tons in 1958–59.

The number of factories operating in 1958-59 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.	1954–55.	1955–56. (a)	1956–57. (a)	1957–58.	1958-59. (a)
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings Value of plant and machinery Horse-power of engines ordinarily	··· ··· ··· y in us	£'000 £'000 £'000 £'000 £'000 £'000 £'000	7 1,961 467 201 1,096 1,005 2,302 850 1,713 31,548	20 7,611 7,095 2,560 17,474 18,294 38,328 8,255 18,050 157,948	17 7,480 7,813 2,735 18,963 17,330 39,028 9,312 18,640 164,123	17 7,903 8,783 2,996 22,419 19,383 44,798 9,527 18,141 170,382	18 8,088 9,752 3,131 22,903 23,910 49,944 12,203 21,835 174,557	18 8,406 10,422 3,341 25,025 25,817 54,183 12,317 22,482 179,364

⁽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 1958-59 and for Australia for a series of years. Establishments engaged primarily in the retreading and repairing of tyres are excluded.

RUBBER GOODS, 1953-59.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	43	56	14	7	2		122
Number of persons employed	6,654	6,529	1,136	(a)	(a)		15,227
Salaries and wages paid . £'000	6,863	6,669	945	(a)	(a) '		15,442
Value of power, fuel, etc., used £'000	933	1,057	114	(a)	(a)		2,205
Value of materials used . £'000	16,143	16,418	2,608	(a)	(a)		36,339
Value of production £'000	9,333	14,065	2,153	(a)	(a)		27,108
Total value of output £'000	26,409	31,540	4,875	(a)	(a) ·		65,652
Value of land and buildings £'000	2,602	3,759	480	(a)	(a) '		7,288
Value of plant and machinery £'000	3,080	3,855	407	(a)	(a)		7,632
Horse-power of engines ordinarily				• •	1		
in use h.p.	53,823	60,379	8,723	(a)	(a)		126,901

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

AUSTRALIA.

Items.			1938–39.	1954–55.	1955–56.	1956–57.	1957–58.	1958-59.
Number of factories			37	108	117	120	118	122
Number of persons employed			1,779	13,645	14,480	14,859	15,017	15,227
Salaries and wages paid		£'000	284	12,364	13,616	14,296	14,931	15,442
Value of power, fuel, etc., used		£'000	35	1,759	1,831	2,007	2,131	2,205
Value of materials used		£'000	455	32,733	38,329	34,378	36,044	36,339
Value of production		£'000	431	18,982	21,211	23,246	24,782	27,108
Total value of output		£,000	921	53,474	61,371	59,631	62,957	65,652
Value of land and buildings		£,000	235	5,057	5,841	6,292	7,120	7,288
Value of plant and machinery		£'000	194	5,285	7,156	6,645	7,839	7,632
Horse-power of engines ordinaril	y in t	se h.p.	5,915	98,836	106,720	114,562	120,602 ⁻	126,901

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 1958-59 and for Australia for a series of years are shown below:—

ELECTRIC LIGHT AND POWER WORKS.

- 1958-59.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	64	44	63	35	88	11	305
Number of persons employed	5,542	3,398	1.644	(a)	1,106	(a)	13,124
Salaries and wages paid £'000	5,758	3,851	1,650	(a)	1,181	(a)	14,011
Value of power, fuel, etc., used £'000	15,486	9,970	6,622	(a)	3,529	(a)	39,383
Value of materials used £'000	2.039	600	1,228	(a)	334	(a)	4,744
Value of production £'000	28,101	18.529	5,883	(a)	3,493	(a)	63,422
Total value of output £'000	45,626	29,099	13.733	(a)	7,356	(a)	107,549
Value of land and buildings £'000	47.066	19,551	9.483	· (a)	4,096	(a)	122,460
Value of plant and machinery £'000	85.564	59,923	37,255	(a)	16.140	(a)	235,844
Generators installed-Kilowatt cap-		,	,		10,1.0	()	
acity '000 kW	2.276	1.310	712	(a)	330	(a)	5,531

Australia.

Items.		1938-39.	1954-55.	1955-56.	1956-57.	1957–58.	1958-59.
Number of factories	 	₃₉₅ -	351	332	328	319	305
Number of persons employed	 	6,508	11,927	12.111	12,473	12,833	13,124
Salaries and wages paid	 £'000	1,977	11,457	12.497	13.571	13,467	14,011
Value of power, fuel, etc., used	 £'000	3,239	36,548	37,479	39,830	40,261	39,383
Value of materials used	 £'000	530	4,170	4.090	4,396	4,740	4,744
Value of production	 £'000	8.714	37,568	43.219	50,722	55,514	63,422
Total value of output	 £'000	12,483	78,286	84,788	94,948	100,515	107,549
Value of land and buildings	 £'000	8,388	60,120	71.680	100.011	104,512	122,460
Value of plant and machinery	 £'000	27,751	146,273	152,672	191,352	213,926	235,844

(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 169.

(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
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	8,275	5,704	2,305	1,583	876	2,456	21,199
1959-60(a)	9,197	6,203	2,542	1,945	926	2,531	23,344

(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 1958-59 and for Australia for a series of years:—

GAS-WORKS.

1958-59.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	37	27	16	3	3		88
Number of persons employed	1.337	1,584	351	(a)	182	(a)	3,917
Salaries and wages paid £'000	1,551	1,796	311	(a)	180	(a)	4,298
Value of power, fuel, etc., used £'000	2,023	398	44	(a)	137	(a)	2,712
Value of materials used £'000	5,654	5,800	1,057	(a)	602	(a)	14,996
Value of production £'000	5,959	3,319	1,003	(a)	336	(a)	11,239
Total value of output £'000	13,636	9,517	2,104	(a)	1,075	(a)	28,947
Value of land and buildings £'000	1,543	3,284	740	(a)	214	(a)	6,079
Value of plant and machinery £'000	7,175	13,333	2,100	(a)	1,611	(a)	28,127
Horse-power of engines ordinarily in) ´	j '	1	`´	1	()	
use h.p.	18,640	6,357	2,874	(a)	1,204	(a)	46,743

Australia.

Items.	1938-39.	1954-55.	1955-56.	1956-57.	1957–58.	1958–59.
Number of factories Number of persons employed Salaries and wages paid . £'000 Value of power, fuel, light, etc., used Value of materials used . £'000 Value of production . £'000	2,931 785 251 1,872	4,103 3,882 2,291 15,187 9,103	95 4,087 4,148 2,297 15,350 9,272	94 4,138 4,448 2,591 15,598 9,894	88 3,783 4,309 2,720 15,030 10,577	88 3,917 4,298 2,712 14,996 11,239
Total value of output £'00! Value of land and buildings £'00! Value of plant and machinery £'00! Horse-power of engines ordinarily in use h.p	1,463	26,581 2,488 19,134 33,389	26,919 2,748 19,828 42,082	28,083 5,189 27,667 44,373	28,327 5,710 26,823 44,913	28,947 6,079 28,127 46,743

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

(ii) Coal Used and Production. The following table shows details for 1958-59:-

GAS-WORKS: COAL USED AND PRODUCTION, 1958-59.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Coal used '000 tons Gas produced million cu. ft. Gas sold Coke produced (b) '000' tons	829	513	190	158	(a)	(a)	1,761
	22,634	17,306	3,161	3,706	(a)	(a)	48,567
	19,128	14,908	2,724	3,361	(a)	(a)	41,622
	417	198	79	92	(a)	(a)	815

(a) Not available for publication; figures are included in the total for Australia. (b) In addition 2,210,621 tons of metallurgical coke were made in Coke Works in 1958-59.

Since 1938-39, when the output of gas was 21 thousand million cubic feet, production has increased each year and reached 50,618 million cubic feet with an equivalent of 256,790 thousand therms (1 Therm=100,000 B.T.U.), in 1959-60.