

CHAPTER VI

MANUFACTURING INDUSTRY

NOTE.—Further detail on the subjects dealt with in this chapter is contained in the annual printed bulletins *Secondary Industries*, Parts I and II. Information is also published, as soon as the data can be prepared, in a series of 35 annual mimeographed bulletins, *Manufacturing Industries*, each relating to a particular industry or group of industries. Details of the industries covered are contained in Statistical Publications of Australia, of the Miscellaneous chapter. Advance annual information is published in mimeographed form in *A Summary of Principal Statistics of Factories* and in *Principal Factory Products*. Current information on factory products is available in the *Quarterly Summary of Australian Statistics*, the *Monthly Review of Business Statistics*, the *Digest of Current Economic Statistics*, and the *Monthly Bulletin of Production Statistics*. A preliminary annual statement (*Factory Statistics*) and monthly statement (*Production Statistics*) are also issued.

In addition to the above-mentioned publications, there is also a series of 46 monthly *Production Summaries*, each relating to the production of a particular commodity or group of commodities (*see reference above to Statistical Publications*).

§ 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. A factor in the post-war growth of manufacturing industry in Australia was the creation in 1921 of the Tariff Board (*see Chapter XIV. Oversea Trade*). As well as encouraging primary industries, the Board, by means of protective tariffs, assisted new manufacturing industries until they were soundly established, and local manufacturers who had been adversely affected by oversea competition.

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 responsibility 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 has been 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 assisted decentralization by allocating munitions and other defence buildings in decentralized areas to private industry and by 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. 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 XIV. Oversea 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.

4. 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 XIX. Education, Cultural Activities and Research, of this Year Book.

(ii) *The Standards Association of Australia.* The Standards Association of Australia is the national standardizing organization of Australia, and issues Australian standard specifications for materials and codes of practice. For further information on this organization see Chapter XIX. Education, Cultural Activities and Research.

(iii) *The National Association of Testing Authorities.* The National Association of Testing Authorities organizes testing facilities throughout Australia to serve private and governmental needs. For further information on this organization see Chapter XIX. Education, Cultural Activities and Research.

(iv) *Industrial Design Council of Australia.* The Industrial Design Council of Australia was established in June, 1958, for the purpose of encouraging better design in Australian-made goods and fostering an appreciation of good design throughout the community. The decision to set up the Council arose from a realization on the part of representatives of industry and government, designers and educationists, that there was a pressing need in Australia for an independent and authoritative body to promote better design in the interests of trade development.

The Council has a membership fully representative of industry, commerce and government, together with designers and educationists. It is financed by donations from industry and by Commonwealth grants. In 1962, the Commonwealth Government announced a grant to the Council of up to £20,000 per year for the next three years. State Committees for Industrial Design are being set up in order to extend the Council's activities throughout Australia and to co-ordinate efforts for the promotion of better design.

As part of its programme of assisting industry, the Council conducts lecture series dealing with various aspects of product design. Design counselling is available to manufacturing companies on request, and manufacturers seeking the services of designers are put in touch with qualified people.

Other projects include the setting-up of a Design Index, providing a photographic catalogue of well designed Australian goods, for reference by manufacturers, retailers, architects, designers and the public; a Register of Designers, providing a comprehensive reference to Australian designers to assist those seeking their services; displays and exhibitions of well designed goods, both local and overseas; design training—the council is aware of the urgent need to raise the standard of training in industrial design and is co-operating with education authorities to this end; information services—it is intended to establish information offices in all capital cities, to provide information on matters concerned with design.

5. **Definitions in Factory Statistics.**—The statistics relating to factories have been compiled from tabulations made by the Deputy Commonwealth Statisticians in the several States, from returns supplied to them annually by manufacturers in accordance with the statistical acts of the States and the Commonwealth. A return must be supplied in respect of every *factory*, which is defined for this purpose as an establishment where four or more persons are employed or where power (other than manual) is used in any manufacturing process. This definition includes factories in educational and charitable institutions, reformatories, and other public institutions (except penitentiaries), but does not cover small-goods makers, laundries, 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 (including containers, tools replaced, etc.) 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.

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

The *average number of persons* employed is quoted on two different bases, the average during the period of operation and the average over the whole year. Of these, the former is simply the aggregate of the average number of persons employed in each factory during its period of operation (whether the whole or only part of the year). This average is used only in respect of details relating to classification according to the number of persons employed. The latter, which is used in all other instances, is calculated by reducing the average number working in the factories (irrespective of period of operation) to the equivalent number working for a full year.

Working proprietors are included in all employment figures other than those relating to monthly employment and age dissections, but salaries and wages paid in all cases exclude drawings by working proprietors.

Value of materials used includes the value, in the usual sense, of the materials used, stores used, containers, tools replaced, and materials used in repairs to plant.

Value of fuel, etc., used includes also the cost of power and light used, of lubricants and of water.

The *value of factory output* is the value of the goods manufactured or their value after passing through the particular process of manufacture concerned, and includes the amount received for repair work, work done on commission and receipts for other factory work. The basis of valuation of the output is the selling value of the goods at the factory, exclusive of all delivery costs and charges and excise duties, but inclusive of bounty and subsidy payments to the manufacturer of the finished article.

The *value of production* is the value added to raw materials by the process of manufacture. It is calculated by deducting from the value of factory output the value (at the factory) of the materials used, containers and packing, power, fuel and light used, tools replaced, and materials used in repairs to plant (but not depreciation charges).

In the process of manufacture, many goods are treated in several industries, the output of one becoming the raw material of another, so that such commodities are counted more than once in the aggregate value of output and of raw materials. Examples are raw sugar passing from the mills to the refinery, metals from the smelters which become raw materials in establishments concerned in the production of metal goods, 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.

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

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

6. 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. Some particulars of certain of the sub-classes shown below are published in the latter portion of this chapter, and full details for all sub-classes may be found in the bulletin *Secondary Industries, Part I.—Factory and Building Operations*, published annually.

The classes and sub-classes in the current classification of factories are as follows.

CLASSIFICATION OF FACTORIES

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

Coke works
Briquetting and pulverized coal
Carbide
Lime, plaster of paris, asphalt
Fibrous plaster and products
Marble, slate, etc.
Cement, portland
Asbestos cement sheets and mouldings
Other cement goods
Other

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

Bricks and tiles
Earthenware, china, porcelain and terracotta
Glass (other than bottles)
Glass bottles
Other

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

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

CLASS IV.—INDUSTRIAL METALS, MACHINES, CONVEYANCES

Smelting, converting, refining, rolling of iron and steel
Foundries (ferrous)
Plant, equipment and machinery, including machine tools
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 working (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 fellingmongery
Tanning, currying and leather-dressing
Saddlery, harness and whips
Machine belting (leather or other)
Bags, trunks and other goods of leather and leather substitutes

CLASS VIII.—CLOTHING (EXCEPT KNITTED)

Tailoring and ready-made clothing
Waterproof and oilskin clothing
Dressmaking, hemstitching
Millinery
Shirts, collars, underclothing
Foundation garments
Handkerchiefs, ties and scarves
Hats and caps
Gloves
Boots and shoes (not rubber)
Boot and shoe repairing
Boot and shoe accessories
Umbrellas and walking sticks
Dyeworks and cleaning, etc.
Other

CLASS IX.—FOOD, DRINK AND TOBACCO

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

CLASS IX.—FOOD, DRINK AND TOBACCO—
continued
Confectionery (including chocolate and icing sugar)
Jam, fruit and vegetable canning
Pickles, sauces, vinegar
Bacon curing
Butter factories
Cheese factories
Condensed and processed milk factories
Margarine
Meat and fish preserving
Condiments, coffee, spices
Ice and refrigerating
Salt
Aerated waters, cordials, etc.
Breweries
Distilleries
Wine-making
Cider and perry
Malting
Bottling
Tobacco, cigars, cigarettes, snuff
Dehydrated fruit and vegetables
Ice cream
Sausage casings
Arrowroot
Other

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

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

CLASS XI.—FURNITURE OF WOOD, BEDDING, ETC.
Cabinet and furniture making (including billiard tables and upholstery)
Bedding and mattresses (not wire)
Furnishing drapery

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

Picture frames
Blinds

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

Newspapers and periodicals
Printing—
Government
General, including bookbinding
Manufactured stationery
Stereotyping, electrotyping
Process and photo engraving
Cardboard boxes, cartons and containers
Paper bags
Paper-making
Pencils, penholders, chalks, crayons
Other

CLASS XIII.—RUBBER

Rubber goods (including tyres made)
Tyre retreading and repairing

CLASS XIV.—MUSICAL INSTRUMENTS

Gramophones and gramophone records
Pianos, piano-players, organs
Other

CLASS XV.—MISCELLANEOUS PRODUCTS

Linoleum, leather-cloth, oil-cloth, etc.
Bone, horn, ivory and shell
Plastic moulding and products
Brooms and brushes
Optical instruments and appliances
Surgical and other scientific instruments and appliances
Photographic 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

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

FACTORIES: AUSTRALIA

Year	Fac- to- ries	Employ- ment(a)	Salaries and wages paid(b)	Value of—				
				Materials and fuel used	Output	Pro- duction (c)	Land and build- ings	Plant and ma- chinery
	No.	'000.	£'000.	£'000.	£'000.	£'000.	£'000.	£'000.
1901 ..	11,143	198	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1911 ..	14,455	312	27,528	81,763	133,022	51,259	32,701	31,516
1920-21 ..	17,113	367	62,932	213,559	323,993	110,434	60,831	68,655
1930-31 ..	21,751	339	62,455	172,489	290,799	118,310	112,211	124,498
1940-41 ..	27,300	650	137,919	386,881	644,795	257,914	144,094	161,356
1950-51 ..	43,147	969	491,718	1,306,963	2,150,835	843,872	302,785	336,615
1957-58 ..	53,988	1,074	929,290	2,545,159	4,273,882	1,728,723	849,036	1,012,735
1958-59 ..	54,888	1,088	970,553	2,649,331	4,491,932	1,842,601	947,899	1,108,385
1959-60 ..	56,657	1,132	1,086,359	2,948,813	5,023,696	2,074,883	1,063,852	1,220,064
1960-61 ..	57,782	1,145	1,143,836	3,047,344	5,217,148	2,169,804	1,193,590	1,391,490
1961-62 ..	58,450	1,121	1,142,519	3,047,151	5,242,089	2,194,938	1,403,838	1,524,787
1962-63p ..	59,127	1,167	1,223,233	3,332,261	5,730,593	2,398,332	1,502,076	1,644,104

(a) 1901 and 1911—average employment during period of operation. Later years relate to average employment over whole year. Working proprietors are included in all years. (b) Excludes drawings by working proprietors. (c) Value added in process of manufacture (i.e., value of output less value of materials and fuel, etc., used).

§ 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 1957–58 to 1961–62.

FACTORIES: NUMBER

Year	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
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
1959–60	23,274	16,979	5,758	4,684	4,279	1,683	56,657
1960–61	23,585	17,173	5,882	5,042	4,334	1,766	57,782
1961–62	23,629	17,300	5,824	5,519	4,418	1,760	58,450

2. Number of Factories in Industrial Classes.—(i) *Australia*. The next table shows the number of factories in Australia during 1957–58 to 1961–62 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.

FACTORIES: NUMBER IN INDUSTRIAL CLASSES, AUSTRALIA

Class of industry	1957–58	1958–59	1959–60	1960–61	1961–62
I. Treatment of non-metalliferous mine and quarry products	1,328	1,344	1,374	1,434	1,454
II. Bricks, pottery, glass, etc.	660	663	682	694	694
III. Chemicals, dyes, explosives, paints, oils, grease	1,184	1,218	1,248	1,258	1,285
IV. Industrial metals, machines, conveyances	20,518	21,254	22,622	23,512	24,193
V. Precious metals, jewellery, plate	808	818	823	859	911
VI. Textiles and textile goods (not dress)	1,364	1,373	1,435	1,421	1,386
VII. Skins and leather (not clothing or footwear)	761	729	727	703	671
VIII. Clothing (except knitted)	7,266	7,195	7,267	7,493	7,561
IX. Food, drink and tobacco	7,455	7,580	7,449	7,331	7,251
X. Sawmills, joinery, boxes, etc., wood turning and carving	5,764	5,676	5,771	5,732	5,634
XI. Furniture of wood, bedding, etc.	2,200	2,184	2,211	2,176	2,157
XII. Paper, stationery, printing, bookbinding, etc.	2,413	2,518	2,619	2,688	2,739
XIII. Rubber	565	606	620	629	650
XIV. Musical instruments	88	86	87	88	85
XV. Miscellaneous products	1,207	1,251	1,330	1,370	1,409
<i>Total, Classes I. to XV.</i>	<i>53,581</i>	<i>54,495</i>	<i>56,265</i>	<i>57,408</i>	<i>58,080</i>
XVI. Heat, light and power	407	393	392	374	370
Grand Total	53,988	54,888	56,657	57,782	58,450

(ii) *States*, 1961–62. The following table shows the number of factories in each State classified by nature of industry.

FACTORIES: NUMBER IN INDUSTRIAL CLASSES, 1961-62

Class of industry	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of non-ferrous mine and quarry products ..	493	470	118	185	140	48	1,454
II. Bricks, pottery, glass, etc. ..	314	177	57	76	52	18	694
III. Chemicals, dyes, explosives, paints, oils, grease ..	624	381	83	95	73	29	1,285
IV. Industrial metals, machines, conveyances ..	9,896	6,779	2,365	2,545	2,006	602	24,193
V. Precious metals, jewellery, plate	366	245	43	164	74	19	911
VI. Textiles and textile goods (not dress) ..	453	785	30	59	40	19	1,386
VII. Skins and leather (not clothing or footwear) ..	305	245	48	41	25	7	671
VIII. Clothing (except knitted) ..	3,413	2,514	554	591	394	95	7,561
IX. Food, drink and tobacco ..	2,557	2,030	991	756	624	293	7,251
X. Sawmills, joinery, boxes, etc., wood turning and carving ..	2,152	1,342	809	406	457	468	5,634
XI. Furniture of wood, bedding, etc. ..	814	626	256	220	174	67	2,157
XII. Paper, stationery, printing, bookbinding, etc. ..	1,190	965	214	190	139	41	2,739
XIII. Rubber ..	235	171	114	62	46	22	650
XIV. Musical instruments ..	35	24	7	11	8	..	85
XV. Miscellaneous products ..	692	479	67	81	74	16	1,409
<i>Total Classes I. to XV. ..</i>	<i>23,539</i>	<i>17,233</i>	<i>5,756</i>	<i>5,482</i>	<i>4,326</i>	<i>1,744</i>	<i>58,080</i>
XVI. Heat, light and power ..	90	67	68	37	92	16	370
Grand Total ..	23,629	17,300	5,824	5,519	4,418	1,760	58,450

§ 3. Classification of Factories by Number of Persons Employed

NOTE.—The size classification of factories is based on the average weekly number of persons employed during the period of operation (including working proprietors).

1. States, 1961-62.—The following table shows, for each State, the number of factories classified by the average number of persons employed.

FACTORIES: CLASSIFICATION BY SIZE OF FACTORY, 1961-62

Size of factory (Persons employed)	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
NUMBER OF FACTORIES							
Under 4 ..	10,226	6,262	2,167	2,543	2,201	790	24,189
4 ..	1,872	1,387	553	467	404	153	4,836
5 to 10 ..	5,359	4,109	1,537	1,174	904	423	13,506
11 to 20 ..	2,761	2,369	693	589	420	183	7,015
21 to 50 ..	1,986	1,817	527	434	315	127	5,206
51 to 100 ..	744	686	164	169	101	41	1,905
101 to 200 ..	364	389	101	80	48	25	1,007
201 to 300 ..	124	115	46	22	12	5	324
301 to 400 ..	50	44	16	15	6	4	135
401 to 500 ..	41	34	8	3	4	1	91
501 to 750 ..	44	58	5	10	1	2	120
751 to 1,000 ..	24	13	4	5	1	2	49
Over 1,000 ..	34	17	3	8	1	4	67
Total ..	23,629	17,300	5,824	5,519	4,418	1,760	58,450

The relative importance of large and small factories is illustrated by the following classification of the average number of persons employed by the size of factory in which they worked.

FACTORIES: AVERAGE NUMBER OF PERSONS EMPLOYED BY SIZE OF FACTORY, 1961-62

Size of factory (Persons employed)	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
AVERAGE NUMBER EMPLOYED DURING PERIOD WORKED							
Under 4	18,914	12,450	4,440	4,636	4,053	1,556	46,049
4	7,488	5,548	2,212	1,868	1,616	612	19,344
5 to 10	37,104	28,781	10,563	8,125	6,195	2,937	93,705
11 to 20	40,247	35,072	9,951	8,611	6,027	2,673	102,581
21 to 50	62,074	57,664	16,591	13,864	9,847	3,977	164,017
51 to 100	51,800	47,988	11,537	11,866	6,900	2,799	132,890
101 to 200	50,755	55,111	14,467	11,455	6,595	3,323	141,706
201 to 300	30,201	28,498	11,015	5,416	2,744	1,245	79,119
301 to 400	17,020	15,521	5,696	5,141	1,933	1,347	46,658
401 to 500	18,024	15,350	3,641	1,384	1,733	418	40,550
501 to 750	27,203	35,050	3,042	6,174	749	1,296	73,514
751 to 1,000	20,887	11,335	3,435	4,317	783	1,531	42,288
Over 1,000	83,199	31,251	5,519	16,737	2,701	6,734	146,141
Total	464,916	379,619	102,109	99,594	51,876	30,448	1,128,562
Average per factory	19.68	21.94	17.53	18.04	11.74	17.30	19.31

2. Australia, 1957-58 to 1961-62.—In the following table, factories in Australia in each year from 1957-58 to 1961-62 are classified in broad groups by the number of persons employed.

FACTORIES: CLASSIFICATION BY NUMBER OF PERSONS EMPLOYED, AUSTRALIA

Year	Establishments employing on the average—							
	20 and under		21 to 100		101 and upwards		Total	
	Es- tablish- ments	Persons em- ployed	Es- tablish- ments	Persons em- ployed	Es- tablish- ments	Persons em- ployed	Es- tablish- ments	Persons em- ployed
1957-58—								
Number	45,569	250,748	6,730	279,750	1,689	550,777	53,988	1,081,275
Average per establish- ment .. ..	..	5.50	..	41.57	..	326.10	..	20.03
1958-59—								
Number	46,345	253,375	6,825	282,735	1,718	560,553	54,888	1,096,663
Average per establish- ment .. ..	..	5.47	..	41.43	..	326.28	..	19.98
1959-60—								
Number	47,791	258,162	7,078	293,400	1,788	587,832	56,657	1,139,394
Average per establish- ment .. ..	..	5.40	..	41.45	..	328.77	..	20.11
1960-61—								
Number	48,728	260,276	7,241	301,251	1,813	591,808	57,782	1,153,335
Average per establish- ment .. ..	..	5.34	..	41.60	..	326.42	..	19.96
1961-62—								
Number	49,546	261,679	7,111	296,907	1,793	569,976	58,450	1,128,562
Average per establish- ment .. ..	..	5.28	..	41.75	..	317.89	..	19.31

§ 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.

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 1961-62.

FACTORIES(a): TOTAL RATED HORSE-POWER OF ENGINES AND ELECTRIC MOTORS, 1961-62

State	Factories(a)	Rated horse-power of engines and motors	
		Ordinarily in use(b)	In reserve or idle (omitting obsolete)
New South Wales	23,574	2,559,208	390,044
Victoria	17,259	1,574,269	213,743
Queensland	5,772	584,617	88,855
South Australia	5,485	471,775	56,995
Western Australia	4,329	276,186	39,348
Tasmania	1,746	281,743	40,439
Australia	58,165	5,747,798	829,424

(a) Includes gas works but excludes central electric stations, details of which are shown on p. 152.

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

3. Rated Horse-power of Engines and Electric Motors Ordinarily in Use.—(i) *According to Type, States.* Particulars of the types and the total rated horse-power of engines, etc., ordinarily in use in each State are given below.

FACTORIES(a): TOTAL RATED HORSE-POWER OF ENGINES AND ELECTRIC MOTORS ORDINARILY IN USE, 1961-62

State	Steam		Internal combustion			Water	Motors driven by electricity		Total (b)(c)
	Reciprocating	Turbine	Gas	Petrol or other light oils	Heavy oils		Purchased	Own generation (d)	
N.S.W. ..	59,105	186,049	3,634	40,096	17,619	..	2,252,705	112,399	2,559,208
Victoria ..	23,172	83,512	1,771	43,628	..	890	1,421,296	57,156	1,574,269
Queensland ..	72,652	66,899	1,996	17,427	10,426	..	415,217	112,222	584,617
S. Australia ..	3,880	11,535	890	8,670	4,653	10	442,137	20,728	471,775
W. Australia ..	9,430	11,615	3,395	17,269	7,271	..	227,206	6,235	276,186
Tasmania ..	1,048	21	1	10,728	173	192	269,580	..	281,743
Australia ..	169,287	359,631	11,687	137,818	40,142	1,092	5,028,141	308,740	5,747,798

(a) Includes gas works but excludes central electric stations, details of which are shown on p. 152.

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

(c) Excludes particulars in column (d).

(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 1957-58 to 1961-62.

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

Year	Steam		Internal combustion			Water	Motors driven by electricity		Total (b)(c)
	Reciprocating	Turbine	Gas	Petrol or other light oils	Heavy oils		Purchased	Own generation (d)	
1957-58 ..	204,854	266,659	9,487	118,106	64,498	1,770	4,062,006	274,287	4,727,380
1958-59 ..	190,905	302,594	10,821	122,916	56,503	1,271	4,310,456	270,981	4,995,466
1959-60 ..	188,892	328,116	9,484	137,835	48,441	1,092	4,558,175	302,091	5,272,035
1960-61 ..	178,074	334,908	9,045	140,384	42,238	1,092	4,862,080	293,051	5,567,821
1961-62 ..	169,287	359,631	11,687	137,818	40,142	1,092	5,028,141	308,740	5,747,798

(a) Includes gas works but excludes central electric stations, details of which are shown on p. 152.

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

(c) Excludes particulars in column (d).

(iii) *In Classes of Industry, 1961-62.* 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), 1961-62

Class of industry	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of non-metalliferous mine and quarry products ..	105,653	94,846	27,305	34,268	20,076	20,487	302,635
II. Bricks, pottery, glass, etc. ..	63,531	41,941	12,524	11,971	12,427	2,859	145,253
III. Chemicals, dyes, explosives, paints, oils, grease ..	219,554	171,188	12,755	27,308	44,783	14,149	489,737
IV. Industrial metals, machines, conveyances ..	1,399,383	523,523	117,663	211,538	77,802	65,968	2,395,877
V. Precious metals, jewellery, plate ..	5,060	3,862	530	1,078	685	91	11,307
VI. Textiles and textile goods (not dress) ..	59,880	108,329	7,033	7,955	3,001	9,875	196,073
VII. Skins and leather (not clothing or footwear) ..	18,865	16,836	6,782	5,628	3,408	520	52,039
VIII. Clothing (except knitted) ..	26,793	27,950	4,929	4,224	2,634	793	67,323
IX. Food, drink and tobacco ..	224,280	214,126	235,081	68,425	44,837	26,452	813,201
X. Sawmills, joinery, boxes, etc., wood turning and carving ..	194,084	126,087	113,950	49,804	51,404	48,575	583,904
XI. Furniture of wood, bedding, etc. ..	21,003	14,214	7,279	7,143	4,393	1,480	55,512
XII. Paper, stationery, printing, bookbinding, etc. ..	103,421	109,223	23,352	23,814	6,753	89,262	355,825
XIII. Rubber ..	59,799	66,781	11,519	7,542	1,220	646	147,507
XIV. Musical instruments ..	1,194	316	48	13	11	..	1,582
XV. Miscellaneous products ..	39,464	33,221	930	2,516	1,395	460	77,986
<i>Total, Classes I. to XV. ..</i>	<i>2,541,964</i>	<i>1,552,443</i>	<i>581,680</i>	<i>463,227</i>	<i>274,830</i>	<i>281,617</i>	<i>5,695,761</i>
XVI. Gas works ..	17,244	21,826	2,937	8,548	1,356	126	52,037
Grand Total ..	2,559,208	1,574,269	584,617	471,775	276,186	281,743	5,747,798

(a) Excludes central electric stations, details of which are shown on p. 152.

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

4. Capacity of Engines and Generators installed in Central Electric Stations.—(i) *According to Type, Australia.* Particulars of the type and the capacity of engines and generators installed in Central Electric Stations in Australia in 1961–62 are given in the following table.

CENTRAL ELECTRIC STATIONS: POWER EQUIPMENT, AUSTRALIA, 1961-62

Particulars	Capacity of engines and generators						Water	Total
	Steam		Internal combustion					
	Reciprocating	Turbine	Gas	Petrol or other light oils	Heavy oils			
Engines installed .. Rated H.P.	2,350	6,990,352	9,290	37,849	282,128	2,523,215	9,845,184	
Generators installed—								
Kilowatt capacity—								
Total installed .. kW.	1,760	5,163,122	6,383	26,186	191,682	1,826,310	7,215,443	
Effective capacity	1,700	4,937,818	3,945	23,424	173,810	1,820,801	6,961,498	
Horse-power equivalent—								
Total installed .. H.P.	2,360	6,921,062	8,556	35,102	256,946	2,448,131	9,672,157	
Effective capacity	2,279	6,619,047	5,288	31,400	232,988	2,440,748	9,331,750	

NOTE.—There were 285 establishments classified as central electric stations in 1961–62.

(ii) *States.* Details of the capacity of engines and generators installed in Central Electric Stations in each State in 1961–62 are given in the next table.

CENTRAL ELECTRIC STATIONS: NUMBER AND POWER EQUIPMENT, 1961-62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Central electric stations .. No.	55	41	52	34	89	14	285
Engines installed .. Rated H.P.	4,285,824	2,242,796	1,092,416	(a)	547,972	(a)	9,845,184
Generators installed—							
Kilowatt capacity—							
Total installed .. kW.	3,165,674	1,660,281	797,123	(a)	374,567	(a)	7,215,443
Effective capacity	3,062,277	1,666,050	655,301	(a)	369,658	(a)	6,961,498
Horse-power equivalent—							
Total installed .. H.P.	4,243,523	2,225,573	1,068,527	(a)	502,100	(a)	9,672,157
Effective capacity	4,104,921	2,233,307	878,418	(a)	495,519	(a)	9,331,750

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

§ 5. Employment in Factories

1. **Number Employed.**—(i) *General.* All persons employed in the manufacturing activities of a factory, including proprietors who work in their own business and “out-workers” (see para. 4, p. 156), are counted as factory employees, while those employed in selling and distributing, such as salesmen, travellers, collectors, carters employed solely on outward delivery of manufactured goods and retailing storemen, are excluded. From 1945–46 the occupational groupings collected were—(i) working proprietors; (ii) managerial and clerical staff including salaried managers and working directors; (iii) chemists, draftsmen and other laboratory and research staff; (iv) foremen and overseers; (v) skilled and unskilled workers; (vi) carters (excluding delivery only), messengers and persons working regularly at home; but from 1960–61 the last three categories were amalgamated into one group—(iv) foremen and overseers, workers in factory and others.

Statistics of factory employment represent the equivalent average number employed over a full year of fifty-two weeks except for the classification of factories according to the number of persons employed (*see* § 3, p. 148), which is based on the average number employed over the period worked.

(ii) *Australia.* Particulars of the numbers employed, the increase in employment and the rate per cent. of such increase are given for the years 1957-58 to 1961-62 in the following table.

FACTORIES: EMPLOYMENT, AUSTRALIA

Year	Males			Females			Persons		
	Number employed	Increase on preceding year		Number employed	Increase on preceding year		Number employed	Increase on preceding year	
		Number	Per cent.		Number	Per cent.		Number	Per cent.
1957-58 ..	822,515	8,964	1.10	251,292	1,445	0.58	1,073,807	10,409	0.98
1958-59 ..	834,940	12,425	1.51	253,316	2,024	0.81	1,088,256	14,449	1.35
1959-60 ..	862,185	27,245	3.26	269,492	16,176	6.39	1,131,677	43,421	3.99
1960-61 ..	872,100	9,915	1.15	272,632	3,140	1.17	1,144,732	13,055	1.15
1961-62 ..	857,457	-14,643	-1.68	263,209	-9,423	-3.46	1,120,666	-24,066	-2.10

NOTE.—Minus sign (-) indicates decrease.

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

FACTORIES: EMPLOYMENT

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

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
1959-60 ..	467,139	381,514	104,693	99,018	49,651	29,662	1,131,677
1960-61 ..	472,061	387,430	104,462	99,955	50,666	30,158	1,144,732
1961-62 ..	461,087	377,745	101,637	99,094	51,033	30,070	1,120,666

PERCENTAGE OF AUSTRALIAN TOTAL

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
1959-60 ..	41.28	33.71	9.25	8.75	4.39	2.62	100
1960-61 ..	41.24	33.85	9.13	8.73	4.43	2.62	100
1961-62 ..	41.14	33.71	9.07	8.84	4.56	2.68	100

FACTORIES: EMPLOYMENT—*continued*

Year	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
PER 1,000 OF POPULATION							
1957-58 ..	122	133	72	104	70	85	110
1958-59 ..	121	132	72	104	69	84	109
1959-60 ..	123	135	71	106	69	86	111
1960-61 ..	120	131	68	102	68	85	108
1961-62 ..	117	128	67	101	68	84	106

2. Rates of Increase, 1957-58 to 1961-62.—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.
1957-58 ..	2.18	0.55	-1.53	0.53	-0.59	1.50	0.98
1958-59 ..	0.83	1.63	2.86	1.83	-0.09	1.21	1.35
1959-60 ..	3.92	5.11	-0.06	5.15	2.55	4.36	3.99
1960-61 ..	1.05	1.55	-0.22	0.95	2.04	1.67	1.15
1961-62 ..	-2.32	-2.50	-2.70	-0.86	3.22	-0.29	-2.10

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 1957-58 to 1961-62.

FACTORIES: PERSONS EMPLOYED IN INDUSTRIAL CLASSES, AUSTRALIA

Class of industry	1957-58	1958-59	1959-60	1960-61	1961-62
I. Treatment of non-metalliferous mine and quarry products	20,883	21,093	21,778	23,363	23,182
II. Bricks, pottery, glass, etc.	22,448	23,093	24,308	24,612	24,108
III. Chemicals, dyes, explosives, paints, oils, grease	46,986	47,876	47,617	46,833	46,830
IV. Industrial metals, machines, conveyances	459,345	469,446	498,192	509,939	496,975
V. Precious metals, jewellery, plate	5,905	5,483	5,308	5,342	5,226
VI. Textiles and textile goods (not dress)	68,875	67,467	72,263	71,092	67,949
VII. Skins and leather (not clothing or footwear)	13,171	12,935	12,952	12,310	11,955
VIII. Clothing (except knitted)	106,947	106,098	106,830	107,158	104,655
IX. Food, drink and tobacco	123,471	125,408	126,154	126,477	128,590
X. Sawmills, joinery, boxes, etc., wood turning and carving	59,238	60,101	61,651	60,810	57,279
XI. Furniture of wood, bedding, etc.	22,099	22,110	22,902	22,219	21,374
XII. Paper stationery, printing, bookbinding, etc.	66,285	68,327	71,672	74,582	73,839
XIII. Rubber	18,105	18,467	18,663	18,395	17,174
XIV. Musical instruments	1,101	1,025	936	812	733
XV. Miscellaneous products	22,332	22,286	23,851	24,757	24,682
<i>Total, Classes I. to XV.</i>	<i>1,057,191</i>	<i>1,071,215</i>	<i>1,115,077</i>	<i>1,128,707</i>	<i>1,104,551</i>
XVI. Heat, light and power	16,616	17,041	16,600	16,031	16,115
Grand Total	1,073,807	1,088,256	1,131,677	1,144,732	1,120,666

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

FACTORIES: PERSONS EMPLOYED IN INDUSTRIAL CLASSES, 1961-62

Class of industry	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of non-metalliferous mine and quarry products	9,467	6,972	2,166	2,173	1,667	737	23,182
II. Bricks, pottery, glass, etc.	12,298	6,494	1,352	2,124	1,451	389	24,108
III. Chemicals, dyes, explosives, paints, oils, grease	22,751	15,763	1,801	2,942	2,663	910	46,830
IV. Industrial metals, machines, conveyances	221,660	151,336	37,217	55,245	21,528	9,989	496,975
V. Precious metals, jewellery, plate	2,176	1,959	307	536	208	40	5,226
VI. Textiles and textile goods (not dress)	20,241	39,100	2,063	2,520	902	3,123	67,949
VII. Skins and leather (not clothing or footwear)	5,160	3,781	1,190	1,133	628	63	11,955
VIII. Clothing (except knitted)	43,500	44,712	7,493	5,023	3,096	831	104,655
IX. Food, drink and tobacco	40,202	38,999	25,895	11,362	7,132	5,000	128,590
X. Sawmills, joinery, boxes, etc., wood turning and carving	19,208	14,595	9,148	5,256	5,438	3,634	57,279
XI. Furniture of wood, bedding, etc.	8,898	6,126	2,501	2,069	1,342	438	21,374
XII. Paper, stationery, printing, bookbinding, etc.	31,006	24,940	6,031	4,698	2,906	4,258	73,839
XIII. Rubber	6,907	6,998	1,791	1,074	264	140	17,174
XIV. Musical instruments	448	183	33	37	32	..	733
XV. Miscellaneous products	11,520	10,787	669	1,012	555	139	24,682
<i>Total, Classes I. to XV.</i>	<i>455,442</i>	<i>372,745</i>	<i>99,657</i>	<i>97,204</i>	<i>49,812</i>	<i>29,691</i>	<i>1,104,557</i>
XVI. Heat, light and power	5,645	5,000	1,980	1,890	1,221	379	16,115
Grand Total	461,087	377,745	101,637	99,094	51,033	30,070	1,120,666

4. **Persons Employed According to Occupational Grouping.**—In the following table, the average number of persons employed in each State during 1961-62 is classified according to occupational grouping. As stated in para. 1 of this section (*see p. 152*), persons employed in factories are now classified on a basis different from that adopted prior to 1960-61.

FACTORIES: PERSONS EMPLOYED—OCCUPATIONAL GROUPING, 1961-62

State	Average number of persons employed				
	Working proprietors	Managerial and clerical staff, etc.(a)	Chemists, draftsmen, etc.	Foremen and overseers, workers in factory and others(b)	Total
New South Wales	14,292	60,754	8,509	377,532	461,087
Victoria	12,772	48,446	7,538	308,989	377,745
Queensland	4,790	11,355	1,293	84,199	101,637
South Australia	4,082	12,605	1,835	80,572	99,094
Western Australia	2,808	4,925	572	42,728	51,033
Tasmania	1,015	3,314	638	25,103	30,070
<i>Total Males</i>	<i>33,910</i>	<i>87,462</i>	<i>18,378</i>	<i>717,707</i>	<i>857,457</i>
<i>Total Females</i>	<i>5,849</i>	<i>53,937</i>	<i>2,007</i>	<i>201,416</i>	<i>263,209</i>
Total Persons	39,759	141,399	20,385	919,123	1,120,666

(a) Includes salaried managers and working directors.

(b) Includes persons working regularly at home.

The term "outworker" or "homeworker" has acquired a special meaning in connexion with manufacturing industries, and includes only persons to whom work is given out by factories to be done at home. Persons working regularly at home for factories are included in the group foremen, overseers, workers in factory and others, and separate details are not available.

5. Monthly Employment, 1957-58 to 1961-62.—(i) *Australia*. The following table shows the number of persons (excluding working proprietors) employed in factories on the last pay-day of the month during the years 1957-58 to 1961-62.

FACTORIES: MONTHLY EMPLOYMENT, AUSTRALIA
(EXCLUDING WORKING PROPRIETORS)

Month	1957-58	1958-59	1959-60	1960-61	1961-62
MALES					
July	781,156	794,374	811,912	844,659	809,433
August	780,630	794,537	814,297	846,325	810,822
September	782,988	795,464	817,277	848,593	806,514
October	785,289	796,964	820,178	849,211	816,327
November	785,825	799,368	821,316	849,265	820,488
December	781,054	792,351	817,217	843,037	816,602
January	786,520	794,996	824,919	843,995	822,210
February	790,835	800,208	831,022	838,482	830,641
March	793,327	802,408	835,371	829,781	834,926
April	791,617	804,259	835,236	823,500	832,434
May	791,403	804,691	839,084	818,065	837,001
June	791,098	805,641	840,832	810,295	839,177
FEMALES					
July	242,399	244,610	251,512	270,302	243,839
August	243,489	245,349	253,864	272,491	245,882
September	245,019	245,882	257,906	274,698	248,688
October	246,360	246,199	260,105	275,647	253,485
November	247,805	247,098	262,514	276,226	256,261
December	244,653	244,235	259,753	271,401	255,779
January	245,340	243,625	260,749	267,386	257,742
February	250,891	249,847	267,234	269,012	263,919
March	252,918	250,384	270,364	263,623	266,971
April	247,439	249,209	267,916	256,478	261,519
May	245,855	248,365	269,200	250,137	264,039
June	244,052	248,915	270,402	245,088	264,374
PERSONS					
July	1,023,555	1,038,984	1,063,424	1,114,961	1,053,272
August	1,024,119	1,039,886	1,068,161	1,118,816	1,056,704
September	1,028,007	1,041,346	1,075,183	1,123,291	1,055,202
October	1,031,649	1,043,163	1,080,283	1,124,858	1,069,812
November	1,033,630	1,046,466	1,083,830	1,125,491	1,076,749
December	1,025,707	1,036,586	1,076,970	1,114,438	1,072,381
January	1,031,860	1,038,621	1,085,668	1,111,381	1,079,952
February	1,041,726	1,050,055	1,098,256	1,107,494	1,094,560
March	1,046,245	1,052,792	1,105,735	1,093,404	1,101,897
April	1,039,056	1,053,468	1,103,152	1,079,978	1,093,953
May	1,037,258	1,053,056	1,108,284	1,068,202	1,101,040
June	1,035,150	1,054,556	1,111,234	1,055,383	1,103,551

(ii) States. Particulars of the numbers employed in each State on the last pay-day of each month in 1961-62 are shown in the following table.

FACTORIES: MONTHLY EMPLOYMENT, 1961-62
(EXCLUDING WORKING PROPRIETORS)

Month	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
MALES							
July	330,062	255,447	83,983	76,271	40,392	23,278	809,433
August	330,783	256,566	83,350	76,307	40,682	23,134	810,822
September	332,483	254,666	82,117	73,120	40,990	23,138	806,514
October	335,051	259,585	80,206	77,144	41,148	23,193	816,327
November	336,751	261,751	79,179	77,916	41,376	23,515	820,488
December	336,001	262,060	75,212	78,065	41,316	23,948	816,602
January	337,818	264,157	75,698	78,874	41,547	24,116	822,210
February	340,520	266,558	78,026	79,580	41,923	24,034	830,641
March	341,572	267,703	78,734	80,549	42,273	24,095	834,926
April	341,279	266,058	78,711	80,342	42,070	23,974	832,434
May	342,484	266,724	80,666	80,926	42,225	23,976	837,001
June	342,564	266,796	82,894	80,975	42,082	23,866	839,177
FEMALES							
July	105,127	95,591	16,471	15,510	6,183	4,957	243,839
August	106,088	96,467	16,725	15,490	6,339	4,773	245,882
September	107,501	97,709	16,724	15,441	6,491	4,822	248,688
October	109,559	100,122	16,694	15,782	6,572	4,756	253,485
November	110,604	101,570	16,545	16,087	6,651	4,804	256,261
December	109,198	101,461	16,474	16,774	6,688	5,184	255,779
January	109,367	102,931	16,315	17,296	6,519	5,314	257,742
February	111,396	105,882	17,118	17,429	6,640	5,454	263,919
March	112,354	106,950	17,096	17,856	6,812	5,903	266,971
April	111,277	103,955	16,611	17,111	6,775	5,790	261,519
May	112,647	104,671	16,979	17,193	6,751	5,798	264,039
June	112,877	104,533	17,386	17,268	6,584	5,726	264,374
PERSONS							
July	435,189	351,038	100,454	91,781	46,575	28,235	1,053,272
August	436,871	353,033	100,075	91,797	47,021	27,907	1,056,704
September	439,984	352,375	98,841	88,561	47,481	27,960	1,055,202
October	444,610	359,707	96,900	92,926	47,720	27,949	1,069,812
November	447,355	363,321	95,724	94,003	48,027	28,319	1,076,749
December	445,199	363,521	91,686	94,839	48,004	29,132	1,072,381
January	447,185	367,088	92,013	96,170	48,066	29,430	1,079,952
February	451,916	372,440	95,144	97,009	48,563	29,488	1,094,560
March	453,926	374,653	95,830	98,405	49,085	29,998	1,101,897
April	452,556	370,013	95,322	97,453	48,845	29,764	1,093,953
May	455,131	371,395	97,645	98,119	48,976	29,774	1,101,040
June	455,441	371,329	100,280	98,243	48,666	29,592	1,103,551

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, provided for a distribution of employees (excluding working proprietors) into seven age-groups from 1945–46 onwards, instead of three as in previous years. From 1960–61, however, the distribution into three groups was re-introduced. The numbers employed in each age-group on the last pay-day in June, 1961 and 1962, are given below.

FACTORIES: DISTRIBUTION OF EMPLOYEES BY AGE
(EXCLUDING WORKING PROPRIETORS)

Age group	June, 1961			June, 1962		
	Males	Females	Persons	Males	Females	Persons
Under 16 years ..	8,849	7,162	16,011	9,176	8,764	17,940
16 to 20 years ..	79,941	44,432	124,373	86,498	48,817	135,315
21 years and over ..	721,505	193,494	914,999	743,503	206,793	950,296
Total	810,295	245,088	1,055,383	839,177	264,374	1,103,551

The following table shows the age distribution in sexes for Australia in June in the years 1958 to 1962.

FACTORIES: DISTRIBUTION OF EMPLOYEES BY AGE, AUSTRALIA
(EXCLUDING WORKING PROPRIETORS)

June—	Under 16 years	16 years	17 years	18 years	19 years	20 years	21 years and over	Total
MALES								
1958 ..	8,710	13,817	16,347	16,802	16,337	15,315	703,770	791,098
1959 ..	8,411	13,556	16,532	17,085	16,099	15,189	718,769	805,641
1960 ..	8,627	14,475	16,846	17,963	16,993	15,739	750,189	840,832
1961 ..	8,849	79,941					721,505	810,295
1962 ..	9,176	86,498					743,503	839,177

FEMALES								
1958 ..	6,924	9,180	9,790	10,025	9,421	8,737	189,975	244,052
1959 ..	7,234	8,957	9,878	9,639	9,069	8,468	195,670	248,915
1960 ..	7,457	9,800	10,411	10,370	9,446	8,818	214,100	270,402
1961 ..	7,162	44,432					193,494	245,088
1962 ..	8,764	48,817					206,793	264,374

PERSONS								
1958 ..	15,634	22,997	26,137	26,827	25,758	24,052	893,745	1,035,150
1959 ..	15,645	22,513	26,410	26,724	25,168	23,657	914,439	1,054,556
1960 ..	16,084	24,275	27,257	28,333	26,439	24,557	964,289	1,111,234
1961 ..	16,011	124,373					914,999	1,055,383
1962 ..	17,940	135,315					950,296	1,103,551

§ 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 the years 1957–58 to 1961–62.

FACTORIES: MALES AND FEMALES EMPLOYED

State	1957–58	1958–59	1959–60	1960–61	1961–62
MALES					
New South Wales	337,211	340,757	351,208	355,392	349,154
Victoria	259,404	263,847	275,315	279,675	273,435
Queensland	84,871	87,454	86,985	86,488	84,130
South Australia	75,909	77,427	81,312	81,898	81,803
Western Australia	42,039	41,951	42,957	43,836	44,193
Tasmania	23,081	23,504	24,408	24,811	24,742
Australia	822,515	834,940	862,185	872,100	857,457
FEMALES					
New South Wales	108,591	108,761	115,931	116,669	111,933
Victoria	97,739	99,132	106,199	107,755	104,310
Queensland	16,973	17,299	17,708	17,974	17,507
South Australia	16,563	16,738	17,706	18,057	17,291
Western Australia	6,423	6,466	6,694	6,830	6,840
Tasmania	5,003	4,920	5,254	5,347	5,328
Australia	251,292	253,316	269,492	272,632	263,209

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 1957–58 to 1961–62.

FACTORIES: ANNUAL PERCENTAGE INCREASES OF MALES AND FEMALES EMPLOYED

State	1957–58	1958–59	1959–60	1960–61	1961–62
MALES					
New South Wales	2.38	1.05	3.07	1.19	-1.76
Victoria	0.50	1.71	4.35	1.58	-2.23
Queensland	-1.20	3.04	-0.54	-0.57	-2.73
South Australia	0.48	2.00	5.02	0.72	-0.12
Western Australia	-0.20	-0.21	2.40	2.05	-0.81
Tasmania	2.66	1.83	3.85	1.65	-0.28
Australia	1.10	1.51	3.26	1.15	-1.68
FEMALES					
New South Wales	1.50	0.16	6.59	0.64	-4.06
Victoria	0.88	1.43	7.13	1.47	-3.20
Queensland	-3.16	1.92	2.36	1.50	-2.66
South Australia	0.76	1.06	5.78	1.98	-4.24
Western Australia	-3.06	0.67	3.53	2.03	0.15
Tasmania	-3.57	-1.66	6.79	1.77	-0.36
Australia	0.58	0.81	6.39	1.17	-3.46

NOTE.—Minus sign (—) indicates decrease.

3. **Masculinity of Persons Employed in Factories.**—The following table shows, for the years 1957–58 to 1961–62, the proportion of males to females employed in factories in each State.

FACTORIES: MASCULINITY^(a) OF PERSONS EMPLOYED

Year	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
1957–58	311	265	500	458	655	461	327
1958–59	313	266	506	463	649	478	330
1959–60	303	259	491	459	642	465	320
1960–61	305	260	481	454	642	464	320
1961–62	312	262	481	473	650	467	326

(a) Number of males per 100 females.

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 1961–62, these industries accounted for 78.03 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 135 females to every 100 males, and in Class VIII., Clothing, with 242 females to every 100 males. The following table shows the average number of males and females employed in each of the four classes in 1961–62.

MALES AND FEMALES EMPLOYED IN PARTICULAR INDUSTRIES, 1961-62

Class	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
MALES							
IV. Industrial metals, etc. ..	194,022	132,581	34,756	49,354	20,440	9,469	440,622
VI. Textiles and textile goods (not dress) ..	8,489	16,393	829	1,245	490	1,411	28,857
VIII. Clothing (except knitted) ..	11,645	13,674	2,026	1,816	1,010	351	30,522
IX. Food, drink and tobacco ..	27,527	26,958	21,367	7,984	5,566	3,380	92,782
All other classes ..	107,471	83,829	25,152	21,404	16,687	10,131	264,674
Total	349,154	273,435	84,130	81,803	44,193	24,742	857,457

FEMALES							
IV. Industrial metals, etc. ..	27,638	18,755	2,461	5,891	1,088	520	56,353
VI. Textiles and textile goods (not dress) ..	11,752	22,707	1,234	1,275	412	1,712	39,092
VIII. Clothing (except knitted) ..	31,855	31,038	5,467	3,207	2,086	480	74,133
IX. Food, drink and tobacco ..	12,675	12,041	4,528	3,378	1,566	1,620	35,808
All other classes ..	28,013	19,769	3,817	3,540	1,688	996	57,823
Total	111,933	104,310	17,507	17,291	6,840	5,328	263,209

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

EMPLOYMENT IN CLOTHING INDUSTRIES: FEMININITY(a), 1961-62

Industry	New South Wales			Victoria			Other States		
	Males	Fe- males	Femi- ninity (a)	Males	Fe- males	Femi- ninity (a)	Males	Fe- males	Femi- ninity (a)
Tailoring and ready-made clothing	3,088	15,249	494	2,720	7,691	283	937	2,811	300
Waterproof and oilskin clothing	126	509	404	164	418	255	4	12	300
Dressmaking, hemstitching	114	994	872	1,041	7,093	681	147	2,432	1,654
Millinery	214	1,189	556	154	608	395	43	437	1,016
Shirts, collars, underclothing	453	4,596	1,014	556	4,636	834	153	1,882	1,230
Foundation garments	133	1,558	1,171	275	1,710	622	23	282	1,226
Handkerchiefs, ties and scarves	153	995	650	56	265	473	28	172	614
Hats and caps	376	385	102	29	94	324	22	114	518
Gloves	119	368	309	42	119	283	46	113	246
Boots and shoes (not rubber)	2,848	3,060	107	5,291	6,219	118	1,501	1,165	78
Boot and shoe repairing	1,460	181	12	990	119	12	766	82	11
Boot and shoe accessories	255	157	62	779	354	45	71	25	35
Umbrellas and walking sticks	34	74	218	30	78	260	23	46	200
Dyeworks and cleaning (including renovating and repairing)	2,232	2,258	101	1,475	1,385	94	1,436	1,657	115
Other	40	282	705	72	249	346	3	10	333
Total	11,645	31,855	274	13,674	31,038	227	5,203	11,240	216

(a) Number of females per 100 males.

§ 7. Children Employed in Factories

1. Number of Children Employed, 1960 to 1962.—In the returns for the various States, the term "child" denotes any person under sixteen years of age. The following table shows the number of children of each sex employed in manufacturing industries in June of the years 1960 to 1962.

FACTORIES: CHILDREN(a) EMPLOYED

State	June, 1960			June, 1961			June, 1962		
	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
New South Wales	2,625	2,219	4,844	2,710	2,009	4,719	2,955	2,646	5,601
Victoria	2,573	2,664	5,237	2,707	2,586	5,293	2,625	3,049	5,674
Queensland	1,592	1,271	2,863	1,478	1,318	2,796	1,521	1,564	3,085
South Australia	883	883	1,766	878	804	1,682	953	993	1,946
Western Australia	863	332	1,195	947	350	1,297	1,031	411	1,442
Tasmania	91	88	179	129	95	224	91	101	192
Australia	8,627	7,457	16,084	8,849	7,162	16,011	9,176	8,764	17,940

(a) Under sixteen years of age.

2. **Industries Employing Children.**—The distribution of children employed in factories in June, 1962, and the proportion of children employed to total employees are shown in the following table by the main classes of industry employing persons under sixteen years of age.

FACTORIES: CHILDREN(a) EMPLOYED, BY CLASSES, AUSTRALIA, JUNE, 1962

Class of industry	Children employed (a)		Total employees (b)		Proportion (per cent.) of children employed to total employees (b)	
	Males	Females	Males	Females	Males	Females
Industrial metals, machines, conveyances .. 4 .. .	4,112	818	436,791	59,012	0.94	1.39
Textiles and textile goods (not dress)	484	1,537	29,582	41,095	1.64	3.74
Clothing (except knitted)	650	3,909	25,655	73,116	2.53	5.35
Food, drink and tobacco	1,103	990	88,951	33,524	1.24	2.95
Sawmills, joinery, boxes, etc. ..	756	86	50,548	3,302	1.50	2.60
Furniture of wood, bedding, etc. ..	422	123	15,811	4,215	2.67	2.92
Paper, stationery, printing, bookbinding, etc.	658	714	53,716	19,209	1.22	3.72
All other industries	991	587	138,123	30,901	0.74	1.90
Total	9,176	8,764	839,177	264,374	1.09	3.32

(a) Under sixteen years of age.

(b) Excludes working proprietors.

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

§ 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 1961–62 was £5,242 million, of which £2,855 million was the value of the materials used, including containers, etc., tools replaced, and repairs to plant and buildings, and £192 million the value of the power, fuel, light, water and lubricating oil used. The difference between the sum of the last two amounts and the gross value of output, namely, £2,195 million, represents the net value of factory production, defined as “the value of consumable commodities produced during the year, deducting, so far as possible, the value of goods consumed in process of production”. Depreciation, however, is not deducted (see para. 6 of this section, p. 169). 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 have, therefore, little statistical significance. The net value of factory production indicates the relative importance of manufacturing in the Australian economy in current money terms. The total amount of salaries and wages paid in factories in 1961–62 was £1,143 million, excluding amounts drawn by working proprietors.

2. **Salaries and Wages Paid.**—(i) *In Classes of Industry, 1961–62.* 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, 1961-62

(£'000)

Class of industry	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of non-metaliferous mine and quarry products	11,427	8,230	2,396	2,332	1,681	825	26,891
II. Bricks, pottery, glass, etc.	14,333	7,008	1,341	2,317	1,452	426	26,877
III. Chemicals, dyes, explosives, paints, oils, grease	27,039	19,281	1,843	3,274	3,087	1,194	55,718
IV. Industrial metals, machines, conveyances	249,401	163,877	34,415	58,566	19,618	10,875	536,752
V. Precious metals, jewellery, plate	2,001	1,853	239	388	153	30	4,664
VI. Textiles and textile goods (not dress)	17,749	33,960	1,503	2,201	723	2,687	58,823
VII. Skins and leather (not clothing or footwear)	5,024	3,587	1,130	1,154	604	66	11,565
VIII. Clothing (except knitted)	30,965	33,805	4,362	3,225	1,732	569	74,658
IX. Food, drink and tobacco	40,213	39,209	25,661	10,302	6,525	4,764	126,674
X. Sawmills, joinery, boxes, etc., wood turning and carving	18,913	14,564	7,824	4,767	4,795	3,240	54,103
XI. Furniture of wood, bedding, etc.	8,712	5,531	2,035	1,670	1,021	340	19,309
XII. Paper, stationery, printing, bookbinding, etc.	35,054	28,116	6,115	4,919	2,854	4,960	82,018
XIII. Rubber	7,881	7,668	1,596	1,258	244	133	18,780
XIV. Musical instruments	463	181	23	28	22	..	717
XV. Miscellaneous products	11,698	10,857	534	823	405	107	24,424
<i>Total, Classes I. to XV.</i>	<i>480,873</i>	<i>377,727</i>	<i>91,017</i>	<i>97,224</i>	<i>44,916</i>	<i>30,216</i>	<i>1,121,973</i>
XVI. Heat, light and power	7,197	6,706	2,328	2,307	1,504	504	20,546
Grand Total	488,070	384,433	93,345	99,531	46,420	30,720	1,142,519

(ii) *Totals and Averages, 1957-58 to 1961-62.* The following table shows the total amount of salaries and wages paid, and the average amount paid per employee in each State, for each year. The figures exclude working proprietors and the amounts drawn by them.

In comparing the figures in the following table, regard should be paid to the nature of certain industries which are carried on to a greater extent in some States than in others. In Victoria, for instance, a large number of hands are employed in Class VIII., Clothing, comprising a relatively high percentage of women and children.

FACTORIES: TOTAL AND AVERAGE SALARIES AND WAGES PAID

Year	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
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TOTAL AMOUNT PAID (£'000)

1957-58	396,692	310,540	78,953	79,844	37,935	25,321	929,290
1958-59	413,015	324,336	85,497	83,145	38,732	25,828	970,553
1959-60	461,144	370,181	89,367	95,238	41,643	28,786	1,086,359
1960-61	490,016	387,221	92,159	98,983	45,127	30,330	1,143,836
1961-62	488,070	384,433	93,345	99,531	46,420	30,720	1,142,519

AVERAGE PER EMPLOYEE (£)

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	947.81	942.94	927.13
1959-60	1021.03	1005.62	896.09	995.96	890.43	1004.27	996.16
1960-61	1072.15	1034.77	927.20	1028.33	942.04	1041.07	1036.14
1961-62	1092.38	1053.31	963.84	1047.56	962.57	1057.29	1057.00

(iii) *Total and Average Earnings of Males and Females, 1957-58 to 1961-62.* Particulars for these years are given in the following table.

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

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

TOTAL AMOUNT PAID (£'000)

1957-58	334,245	253,342	70,954	71,153	34,938	22,516	787,148
1958-59	348,302	265,615	77,049	74,268	35,647	23,138	824,019
1959-60	387,166	302,678	80,345	85,333	38,276	25,618	919,416
1960-61	412,360	317,907	82,669	88,623	41,474	26,952	970,185
1961-62	411,835	314,959	83,763	89,385	42,703	27,248	969,893

AVERAGE PER MALE EMPLOYEE (£)

1957-58	1,034.19	1,023.48	881.32	970.33	884.66	1,018.45	1,001.28
1958-59	1,065.21	1,052.69	926.77	992.28	905.12	1,026.66	1,031.05
1959-60	1,145.65	1,145.80	971.95	1,088.21	950.85	1,091.42	1,111.86
1960-61	1,204.20	1,183.16	1,006.38	1,125.21	1,005.06	1,130.89	1,158.71
1961-62	1,222.45	1,198.21	1,046.50	1,140.33	1,026.38	1,146.51	1,177.70

FEMALES

TOTAL AMOUNT PAID (£'000)

1957-58	62,447	57,198	8,004	8,691	2,997	2,805	142,142
1958-59	64,713	58,721	8,448	8,877	3,085	2,690	146,534
1959-60	73,978	67,503	9,022	9,905	3,367	3,168	166,943
1960-61	77,456	69,314	9,490	10,360	3,653	3,378	173,651
1961-62	76,235	69,474	9,582	10,146	3,717	3,472	172,626

AVERAGE PER FEMALE EMPLOYEE (£)

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
1959-60	650.82	649.38	528.65	575.58	516.95	610.25	633.25
1960-61	676.83	656.91	550.13	592.18	550.25	637.26	651.26
1961-62	693.66	670.55	570.16	610.23	561.55	656.42	670.76

(iv) *Managers, Clerical Staff and Other Employees.* The following table shows, for 1961-62, the amounts paid to managerial and clerical staff, including salaried managers and working directors, chemists, draftsmen and other laboratory and research staff, and those paid to other employees. Amounts drawn by working proprietors are excluded in all cases.

FACTORIES: SALARIES AND WAGES PAID TO MANAGERS, CLERICAL STAFF, ETC., AND OTHER EMPLOYEES, AUSTRALIA, 1961-62

Class of industry	Managers, clerical staff, chemists, draftsmen, etc.		All other employees	
	Males	Females	Males	Females
	£'000	£'000	£'000	£'000
I. Treatment of non-metalliferous mine and quarry products	3,963	707	22,090	131
II. Bricks, pottery, glass, etc.	2,634	615	22,658	969
III. Chemicals, dyes, explosives, paints, oils, grease ..	14,273	3,230	34,038	4,177
IV. Industrial metals, machines, conveyances	86,663	17,149	411,585	21,354
V. Precious metals, jewellery, plate	625	221	3,405	413
VI. Textiles and textile goods (not dress)	6,138	2,507	26,782	23,396
VII. Skins and leather (not clothing or footwear)	1,364	303	8,090	1,808
VIII. Clothing (except knitted)	5,830	3,130	22,708	42,990
IX. Food, drink and tobacco	18,326	5,481	84,912	17,954
X. Sawmills, joinery, boxes, etc., wood turning and carving	6,550	1,397	45,447	709
XI. Furniture of wood, bedding, etc.	2,213	767	14,298	2,030
XII. Paper, stationery, printing, bookbinding, etc. ..	12,267	3,839	57,022	8,890
XIII. Rubber	3,087	682	13,232	1,779
XIV. Musical instruments	91	23	534	70
XV. Miscellaneous products	3,959	1,309	14,678	4,480
<i>Total, Classes I. to XV.</i>	<i>167,983</i>	<i>41,360</i>	<i>781,479</i>	<i>131,150</i>
XVI. Heat, light and power	1,969	81	18,462	35
Grand Total	169,952	41,441	799,941	131,185
Average paid per employee	£ 1,605.75	£ 740.75	£ 1,114.58	£ 651.32

3. Power, Fuel and Light Used.—(i) *In Classes of Industry, 1961-62.* The expenditure by factories on power, fuel and light, including the value of lubricants and water, is shown in the following table for each State and Australia for 1961-62.

FACTORIES: VALUE OF POWER, FUEL AND LIGHT USED(a), 1961-62 (£'000)

Class of industry	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of non-metalliferous mine and quarry products	5,761	2,909	874	993	513	386	11,436
II. Bricks, pottery, glass, etc.	3,998	2,215	501	671	529	170	8,084
III. Chemicals, dyes, explosives, paints, oils, grease ..	7,679	6,792	305	801	2,228	611	18,416
IV. Industrial metals, machines, conveyances	43,810	9,331	2,389	5,510	1,457	2,469	65,016
V. Precious metals, jewellery, plate	166	149	14	39	12	2	382
VI. Textiles and textile goods (not dress)	1,633	2,605	88	222	52	256	4,856
VII. Skins and leather (not clothing or footwear)	427	419	97	141	65	6	1,155
VIII. Clothing (except knitted)	1,040	955	188	154	83	40	2,460
IX. Food, drink and tobacco	6,617	6,235	3,165	1,459	1,120	635	19,231
X. Sawmills, joinery, boxes, etc., wood turning and carving ..	1,558	827	635	357	358	349	4,084
XI. Furniture of wood, bedding, etc.	236	125	50	46	24	8	489
XII. Paper, stationery, printing, bookbinding, etc.	1,920	2,174	362	492	118	1,599	6,665
XIII. Rubber	1,094	1,228	199	154	30	19	2,724
XIV. Musical instruments	33	9	1	1	1	..	45
XV. Miscellaneous products	824	1,042	17	54	23	2	1,962
<i>Total, Classes I. to XV.</i>	<i>76,796</i>	<i>37,065</i>	<i>8,885</i>	<i>11,094</i>	<i>6,613</i>	<i>6,552</i>	<i>147,005</i>
XVI. Heat, light and power	17,115	12,464	7,181	4,229	3,755	16	44,760
Grand Total	93,911	49,529	16,066	15,323	10,368	6,568	191,765

(a) Includes value of lubricants and water.

(ii) *Values of Items, 1961-62.* 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), 1961-62
(£'000)

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Coal, black	18,962	1,923	8,635	(b) 3,496	2,352	1,116	36,484
.. brown .. .. .	..	6,352	..	..	..	..	6,352
Brown coal briquettes .. .. .	..	7,453	..	..	..	..	7,453
Coke	15,321	625	313	2,603	222	370	19,454
Wood	358	489	313	359	383	106	2,038
Fuel oil	10,222	9,604	1,449	2,911	3,924	942	29,052
Tar (fuel)	1,594	135	26	98	14	10	1,867
Electricity	27,432	17,679	4,078	4,376	2,290	3,463	59,318
Gas	10,772	1,426	222	262	92	43	12,817
Other (charcoal, etc.)	4,157	653	122	429	475	303	6,139
Water	3,629	2,274	498	513	349	137	7,400
Lubricating oils	1,434	926	410	276	267	78	3,391
Total	93,911	49,529	16,066	15,323	10,368	6,568	191,765

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

(b) Includes £2,319,521 the value of 1,264,002 tons

(iii) *Quantities of Fuel Used, 1961-62.* The following table shows the quantities of fuel used in factories in each State during the year.

FACTORIES: QUANTITIES OF FUEL USED, 1961-62

Particulars	Unit	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Coal, black	'000 tons	6,206	315	1,871	(a) 1,482	622	219	10,715
.. brown	"	..	11,841	..	..	..	..	11,841
Brown coal briquettes	"	..	1,280	..	..	..	..	1,280
Coke	"	2,577	57	20	292	18	20	2,984
Wood	"	174	270	164	225	250	52	1,133
Fuel oil	'000 gals.	223,809	226,509	19,459	61,471	92,953	16,200	640,401
Tar (fuel)	"	36,223	2,434	556	2,605	710	197	42,725

(a) Includes 1,264,002 tons of Leigh Creek coal.

(iv) *Total Value, 1957-58 to 1961-62.* 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
1957-58	73,452	42,762	13,152	14,933	9,425	5,074	158,798
1958-59	76,275	43,377	14,964	14,590	9,587	5,459	164,252
1959-60	87,108	47,140	15,183	15,093	10,071	6,220	180,815
1960-61	92,262	49,201	15,544	15,183	10,616	6,437	189,243
1961-62	93,911	49,529	16,066	15,323	10,368	6,568	191,765

(a) Includes value of lubricants and water.

4. *Value of Materials Used.*—(i) *In Classes of Industry, 1961-62.* 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 1961-62 reached £2,855 million, or 54.4 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, 1961-62(a)
(£'000)

Class of industry	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of non-ferrous metal and quarry products	40,270	20,646	5,327	6,647	3,336	1,587	77,813
II. Bricks, pottery, glass, etc.	12,729	7,173	1,099	2,574	977	292	24,844
III. Chemicals, dyes, explosives, paints, oils, grease	144,106	109,977	10,124	11,143	38,238	2,730	316,318
IV. Industrial metals, machines, conveyances	543,073	261,948	69,622	100,755	33,827	21,765	1,030,990
V. Precious metals, jewellery, plate	2,134	1,808	116	412	85	13	4,568
VI. Textiles and textile goods (not dress)	41,722	83,110	4,155	5,133	3,402	6,130	143,652
VII. Skins and leather (not clothing or footwear)	15,849	9,560	3,323	5,460	826	349	35,367
VIII. Clothing (except knitted)	55,562	54,371	4,853	3,763	2,049	507	121,105
IX. Food, drink and tobacco	196,622	211,362	170,659	47,736	35,297	20,831	682,507
X. Sawmills, joinery, boxes, etc., wood turning and carving	43,826	29,976	14,492	12,584	8,379	7,442	116,699
XI. Furniture of wood, bedding, etc.	18,104	12,043	4,790	3,429	2,338	634	41,338
XII. Paper, stationery, printing, bookbinding, etc.	63,710	58,974	9,594	7,463	4,157	8,348	152,246
XIII. Rubber	17,700	18,846	3,604	1,858	613	213	42,834
XIV. Musical instruments	1,026	162	26	13	16	..	1,243
XV. Miscellaneous products	19,555	22,207	611	1,321	640	61	44,395
<i>Total, Classes I. to XV.</i>	<i>1,215,988</i>	<i>902,163</i>	<i>302,395</i>	<i>210,291</i>	<i>134,180</i>	<i>70,902</i>	<i>2,835,919</i>
XVI. Heat, light and power	7,678	5,641	2,608	2,269	905	366	19,467
Grand Total	1,223,666	907,804	305,003	212,560	135,085	71,268	2,855,386

(a) See para. 1 of this section, p. 162.

(ii) *Total Amounts, 1957-58 to 1961-62.* 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.
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
1959-60	1,206,255	875,973	291,388	207,636	119,138	67,609	2,767,999
1960-61	1,236,484	897,167	305,677	216,382	133,324	69,067	2,858,101
1961-62	1,223,666	907,804	305,003	212,560	135,085	71,268	2,855,386

(a) See para. 1 of this section, p. 162.

5. Value of Output.—(i) *In Classes of Industry, 1961-62.* The value of the output of factories in the various classes in each State in 1961-62 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, 1961-62(a)

(£'000)

Class of industry	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of non-metalliferous mine and quarry products	70,843	42,436	11,825	13,739	7,914	3,729	150,486
II. Bricks, pottery, glass, etc.	41,413	21,329	4,070	7,380	4,196	1,149	79,537
III. Chemicals, dyes, explosives paints, oils, grease	241,524	176,246	16,631	20,926	55,300	6,279	516,906
IV. Industrial metals, machines, conveyances	1,011,624	531,938	126,938	197,594	68,683	43,979	1,980,756
V. Precious metals, jewellery, plate	5,751	4,956	519	1,156	402	66	12,850
VI. Textiles and textile goods (not dress)	76,841	145,544	6,650	9,343	4,732	11,006	254,116
VII. Skins and leather (not cloth- ing or footwear)	24,325	15,954	5,364	7,123	1,879	474	55,119
VIII. Clothing (except knitted)	109,849	111,931	12,275	9,207	5,048	1,430	249,740
IX. Food, drink and tobacco	307,983	310,667	227,589	70,282	51,319	31,628	999,468
X. Sawmills, joinery, boxes, etc., wood turning and carving	78,842	54,625	28,478	21,541	17,641	13,740	214,867
XI. Furniture of wood, bedding, etc.	33,293	22,272	8,288	6,560	4,269	1,219	75,901
XII. Paper, stationery, printing, bookbinding, etc.	135,882	117,865	21,228	16,822	9,860	20,727	322,384
XIII. Rubber	30,501	35,847	7,143	4,554	1,297	503	79,845
XIV. Musical instruments	2,723	444	71	61	53	..	3,352
XV. Miscellaneous products	42,551	43,244	1,495	3,009	1,394	209	91,902
<i>Total, Classes I. to XV.</i>	<i>2,213,945</i>	<i>1,635,298</i>	<i>478,564</i>	<i>389,297</i>	<i>233,987</i>	<i>136,138</i>	<i>5,087,229</i>
XVI. Heat, light and power	70,053	39,362	17,803	12,500	9,507	5,635	154,860
Grand Total	2,283,998	1,674,660	496,367	401,797	243,494	141,773	5,242,089

(a) See para. 1 of this section, p. 162.

(ii) *Totals, 1957-58 to 1961-62.* 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.
1957-58	1,848,242	1,377,697	405,757	332,098	196,262	113,826	4,273,882
1958-59	1,952,452	1,431,041	451,186	342,758	196,202	118,293	4,491,932
1959-60	2,209,809	1,609,614	468,963	385,702	215,583	134,025	5,023,696
1960-61	2,295,502	1,649,650	491,848	401,627	240,570	137,951	5,217,148
1961-62	2,283,998	1,674,660	496,367	401,797	243,494	141,773	5,242,089

(a) See para. 1 of this section p. 162.

6. *Value of Production.*—(i) *In Classes of Industry, 1961-62.* The value of production for any industry was defined at the Conference of Statisticians at Sydney in 1925 as "the value of consumable commodities produced during the year, deducting, so far as possible, the value of goods consumed in process of production".

In accordance with this definition, it was agreed that a deduction consisting of the costs of raw material, containers, power, fuel, light, lubricants, water, tools replaced, repairs to plant and depreciation should be made from the "value of output". Because of the difficulty experienced in securing accurate figures for depreciation, however, it was subsequently decided that no deduction should be made on this account. All the deductions mentioned above, with the exception of depreciation, are included in the items "value of materials used" and "value of fuel used" as defined above. The net value of production as given in the following tables is obtained, therefore, by deducting only "value of materials used" and "value of fuel used" from the "value of output". The value of factory production, therefore, approximates "net value added" in the manufacturing process.

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

The following table shows, for 1961-62, the value of production in each State for the various classes of industry.

FACTORIES: VALUE OF PRODUCTION, 1961-62(a)

(£'000)

Class of industry	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of non-metalliferous mine and quarry products	24,812	18,881	5,624	6,099	4,065	1,756	61,237
II. Bricks, pottery, glass, etc.	24,686	11,941	2,470	4,134	2,691	687	46,609
III. Chemicals, dyes, explosives, paints, oils, grease	89,739	59,477	6,202	8,982	14,834	2,938	182,172
IV. Industrial metals, machines, conveyances	424,741	260,609	54,927	91,329	33,399	19,745	884,750
V. Precious metals, jewellery, plate	3,450	2,999	389	705	306	51	7,900
VI. Textiles and textile goods (not dress)	33,486	59,828	2,407	3,988	1,278	4,621	105,608
VII. Skins and leather (not clothing or footwear)	8,049	5,975	1,944	1,522	988	119	18,597
VIII. Clothing (except knitted)	53,247	56,605	7,234	5,290	2,916	883	126,175
IX. Food, drink and tobacco	104,744	93,070	53,765	21,087	14,902	10,162	297,730
X. Sawmills, joinery, boxes, etc., wood turning and carving	33,458	23,822	13,351	8,600	8,904	5,949	94,084
XI. Furniture of wood, bedding, etc.	14,953	10,104	3,448	3,085	1,907	577	34,074
XII. Paper, stationery, printing, bookbinding, etc.	70,252	56,717	11,272	8,867	5,585	10,780	163,473
XIII. Rubber	11,707	15,773	3,340	2,542	654	271	34,287
XIV. Musical instruments	1,664	273	44	47	36	..	2,064
XV. Miscellaneous products	22,173	19,996	867	1,635	729	145	45,545
<i>Total, Classes I. to XV.</i>	<i>921,161</i>	<i>696,070</i>	<i>167,284</i>	<i>167,912</i>	<i>93,194</i>	<i>58,684</i>	<i>2,104,305</i>
XVI. Heat, light and power	45,260	21,257	8,014	6,002	4,847	5,253	90,633
Grand Total	966,421	717,327	175,298	173,914	98,041	63,937	2,194,938

(a) See para. 1 of this section, p. 162.

(ii) *Totals and Averages, 1957-58 to 1961-62.* The value of production and the amount per person employed and per head of population are shown in the following table.

FACTORIES: VALUE OF PRODUCTION(a)

Year	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
VALUE (£'000)							
1957-58	757,862	566,476	143,958	133,285	75,312	51,830	1,728,723
1958-59	805,315	608,948	155,465	139,810	78,762	54,301	1,842,601
1959-60	916,446	686,501	162,392	162,973	86,374	60,196	2,074,882
1960-61	966,756	703,282	170,627	170,062	96,631	62,446	2,169,804
1961-62	966,421	717,327	175,298	173,914	98,041	63,937	2,194,938

PER PERSON EMPLOYED (£)

1957-58	1,700	1,586	1,414	1,441	1,554	1,846	1,610
1958-59	1,792	1,678	1,484	1,485	1,627	1,910	1,693
1959-60	1,962	1,799	1,551	1,646	1,740	2,029	1,833
1960-61	2,048	1,815	1,633	1,701	1,907	2,071	1,895
1961-62	2,096	1,899	1,725	1,755	1,921	2,162	1,959

PER HEAD OF POPULATION (£)

1957-58	207.02	210.81	101.21	150.43	108.59	156.09	178.55
1958-59	215.96	221.44	107.18	153.92	111.58	160.36	186.45
1959-60	241.40	243.47	109.86	174.56	120.41	174.93	205.65
1960-61	249.43	243.06	111.74	173.51	129.57	175.07	208.82
1961-62	244.76	242.41	114.80	177.44	131.46	179.25	206.95

(a) See para. 1 of this section, p. 162.

§ 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 1961-62.

FACTORIES: VALUE OF LAND, BUILDINGS, PLANT AND MACHINERY(a), 1961-62
(£'000)

Value of—	N S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Land and buildings	643,483	443,683	89,632	98,297	49,168	79,575	1,403,838
Plant and machinery	670,635	467,887	137,251	126,503	61,716	60,795	1,524,787
Total ..	1,314,118	911,570	226,883	224,800	110,884	140,370	2,928,625

(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) *Totals 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 1957–58 to 1961–62.

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

Class of industry	1957–58	1958–59	1959–60	1960–61	1961–62
I. Treatment of non-metalliferous mine and quarry products	13,714	15,175	22,325	27,330	31,132
II. Bricks, pottery, glass, etc.	14,986	16,580	19,616	22,249	26,099
III. Chemicals, dyes, explosives, paints, oils, grease	70,090	76,645	80,477	87,052	95,874
IV. Industrial metals, machines, conveyances	300,343	336,282	387,934	455,442	505,778
V. Precious metals, jewellery, plate	3,777	3,845	3,955	4,516	4,984
VI. Textiles and textile goods (not dress)	40,199	46,671	48,379	53,313	57,791
VII. Skins and leather (not clothing or footwear)	7,221	7,702	9,166	9,333	10,000
VIII. Clothing (except knitted)	39,855	43,203	47,762	53,776	57,964
IX. Food, drink and tobacco	129,073	138,625	149,341	160,716	172,358
X. Sawmills, joinery, boxes, etc., wood turning and carving	28,464	30,656	34,903	40,283	41,088
XI. Furniture of wood, bedding, etc.	12,992	14,677	16,251	17,884	18,881
XII. Paper, stationery, printing, book-binding, etc.	52,854	61,059	68,997	77,498	85,219
XIII. Rubber	11,688	12,821	13,439	15,532	16,875
XIV. Musical instruments	636	730	930	922	796
XV. Miscellaneous products	12,922	14,688	18,345	20,720	26,092
<i>Total, Classes I. to XV.</i>	<i>738,814</i>	<i>819,359</i>	<i>921,820</i>	<i>1,046,566</i>	<i>1,150,931</i>
XVI. Heat, light and power	110,222	128,540	142,032	147,024	252,907
Grand Total	849,036	947,899	1,063,852	1,193,590	1,403,838

(a) Includes estimated value of rented premises.

(ii) *In Classes of Industry in States, 1961–62.* The following table gives particulars of the various classes of industry in each State.

FACTORIES: VALUE OF LAND AND BUILDINGS(a), 1961–62 (£'000)

Class of industry	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of non-metalliferous mine and quarry products	10,842	12,011	1,949	3,262	2,325	743	31,132
II. Bricks, pottery, glass, etc.	14,061	6,994	1,607	1,769	1,284	384	26,099
III. Chemicals, dyes, explosives, paints, oils, grease	47,377	36,053	1,901	4,229	5,009	1,305	95,874
IV. Industrial metals, machines, conveyances	241,140	165,801	26,628	44,092	16,272	11,845	505,778
V. Precious metals, jewellery, plate	2,142	1,842	142	586	203	69	4,984
VI. Textiles and textile goods (not dress)	18,260	34,532	1,020	1,804	602	1,573	57,791
VII. Skins and leather (not clothing or footwear)	4,397	4,156	386	692	328	41	10,000
VIII. Clothing (except knitted)	23,903	25,208	2,858	3,411	1,813	771	57,964
IX. Food, drink and tobacco	53,230	60,918	26,614	14,680	9,863	7,053	172,358
X. Sawmills, joinery, boxes, etc., wood turning and carving	16,181	13,043	3,704	4,224	2,140	1,796	41,088
XI. Furniture of wood, bedding, etc.	8,059	5,749	2,062	1,616	1,011	384	18,881
XII. Paper, stationery, printing, bookbinding, etc.	37,116	28,447	5,167	5,547	2,799	6,143	85,219
XIII. Rubber	5,673	6,922	2,113	1,321	541	305	16,875
XIV. Musical instruments	424	233	35	70	34	..	796
XV. Miscellaneous products	10,521	13,769	427	762	473	140	26,092
<i>Total, Classes I. to XV.</i>	<i>493,326</i>	<i>415,678</i>	<i>76,613</i>	<i>88,065</i>	<i>44,697</i>	<i>32,552</i>	<i>1,150,931</i>
XVI. Heat, light and power	150,157	28,005	13,019	10,232	4,471	47,023	252,907
Grand Total	643,483	443,683	89,632	98,297	49,168	79,575	1,403,838

(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 1957-58 to 1961-62.

FACTORIES: VALUE OF LAND AND BUILDINGS(a)

(£'000)

Year	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
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
1959-60	440,548	353,735	76,352	77,632	43,573	72,012	1,063,852
1960-61	501,793	400,751	84,158	87,729	45,610	73,549	1,193,590
1961-62	643,483	443,683	89,632	98,297	49,168	79,575	1,403,838

(a) Includes estimated value of rented premises.

3. *Value of Plant and Machinery.*—(i) *Totals for Australia, 1957-58 to 1961-62.* 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	1957-58	1958-59	1959-60	1960-61	1961-62
I. Treatment of non-metalliferous mine and quarry products	30,623	35,099	49,658	68,426	74,431
II. Bricks, pottery, glass, etc.	13,443	14,564	16,286	20,076	23,944
III. Chemicals, dyes, explosives, paints, oils, grease	137,520	153,820	157,731	162,695	199,211
IV. Industrial metals, machines, conveyances	289,969	319,665	358,039	448,825	501,731
V. Precious metals, jewellery, plate	1,388	1,348	1,541	1,572	1,448
VI. Textiles and textile goods (not dress)	36,040	41,380	42,775	45,749	48,315
VII. Skins and leather (not clothing or footwear)	4,240	4,348	4,216	4,491	4,516
VIII. Clothing (except knitted)	15,621	16,407	17,244	18,659	19,167
IX. Food, drink and tobacco	131,708	138,940	147,262	159,600	168,620
X. Sawmills, joinery, boxes, etc., wood turning and carving	27,043	29,121	30,841	33,264	34,197
XI. Furniture of wood, bedding, etc.	3,802	4,130	4,369	4,544	4,774
XII. Paper, stationery, printing, book-binding, etc.	59,509	63,757	74,776	86,988	91,862
XIII. Rubber	10,234	10,333	12,240	12,990	13,074
XIV. Musical instruments	429	426	386	354	349
XV. Miscellaneous products	10,417	11,077	13,455	15,904	17,766
<i>Total, Classes I. to XV.</i>	<i>771,986</i>	<i>844,415</i>	<i>930,819</i>	<i>1,084,137</i>	<i>1,203,405</i>
XVI. Heat, light and power	240,749	263,970	289,245	307,353	321,382
Grand Total	1,012,735	1,108,385	1,220,064	1,391,490	1,524,787

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

(ii) *In Classes of Industry in States, 1961-1962.* The following table shows the value of plant and machinery used in factories in each State during 1961-62 according to class of industry.

FACTORIES: VALUE OF PLANT AND MACHINERY(a), 1961-62

(£'000)

Class of industry	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of non-metalliferous mine and quarry products ..	35,331	22,714	4,764	7,915	2,521	1,186	74,431
II. Bricks, pottery, glass, etc. ..	13,064	6,004	2,122	1,501	894	359	23,944
III. Chemicals, dyes, explosives, paints, oils, grease ..	91,474	76,465	2,748	8,810	17,676	2,038	199,211
IV. Industrial metals, machines, conveyances ..	298,977	112,418	19,761	46,317	10,076	14,182	501,731
V. Precious metals, jewellery, plate ..	651	553	51	131	48	14	1,448
VI. Textiles and textile goods (not dress) ..	15,663	26,321	1,249	1,989	452	2,641	48,315
VII. Skins and leather (not clothing or footwear) ..	1,810	1,636	432	395	217	26	4,516
VIII. Clothing (except knitted) ..	6,757	8,941	1,227	1,298	584	360	19,167
IX. Food, drink and tobacco ..	46,738	51,581	45,264	11,486	7,166	6,385	168,620
X. Sawmills, joinery, boxes, etc., wood turning and carving ..	12,128	7,928	5,279	4,503	2,030	2,329	34,197
XI. Furniture of wood, bedding, etc. ..	2,065	1,265	537	520	308	79	4,774
XII. Paper, stationery, printing, bookbinding, etc. ..	34,594	28,323	8,012	6,845	2,031	12,057	91,862
XIII. Rubber ..	3,439	7,648	951	694	217	125	13,074
XIV. Musical instruments ..	258	72	4	12	3	..	349
XV. Miscellaneous products ..	7,550	9,131	219	573	259	34	17,766
<i>Total, Classes I. to XV.</i>	<i>570,499</i>	<i>361,000</i>	<i>92,620</i>	<i>92,989</i>	<i>44,482</i>	<i>41,815</i>	<i>1,203,405</i>
XVI. Heat, light and power ..	100,136	106,887	44,631	33,514	17,234	18,980	321,382
Grand Total ..	670,635	467,887	137,251	126,503	61,716	60,795	1,524,787

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

(iii) *Totals in each State.* The following table shows the value of plant and machinery in each State during the years 1957-58 to 1961-62.

FACTORIES: VALUE OF PLANT AND MACHINERY(a)

(£'000)

Year	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
1957-58 ..	415,838	302,263	104,598	79,336	63,840	46,860	1,012,735
1958-59 ..	459,678	337,107	112,528	84,749	66,097	48,226	1,108,385
1959-60 ..	506,638	377,092	120,211	98,240	64,225	53,658	1,220,064
1960-61 ..	607,281	417,918	132,569	113,100	64,306	56,316	1,391,490
1961-62 ..	670,635	467,887	137,251	126,503	61,716	60,795	1,524,787

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

4. **Depreciation of Land and Buildings and Plant and Machinery, 1961-62.**—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, 1961-62**
(£'000)

Class of industry	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of non-metalliferous mine and quarry products	4,344	1,896	704	688	283	143	8,058
II. Bricks, pottery, glass, etc.	1,469	732	215	179	126	44	2,765
III. Chemicals, dyes, explosives, paints, oils, grease	8,849	8,553	344	794	2,637	640	21,817
IV. Industrial metals, machines, conveyances	33,577	13,310	2,080	6,106	1,118	1,266	57,457
V. Precious metals, jewellery, plate	65	47	6	12	4	1	135
VI. Textiles and textile goods (not dress)	1,775	3,247	190	178	57	323	5,770
VII. Skins and leather (not clothing or footwear)	168	156	40	51	29	4	448
VIII. Clothing (except knitted)	726	808	115	102	74	32	1,857
IX. Food, drink and tobacco	5,174	6,113	4,354	1,342	923	700	18,606
X. Sawmills, joinery, boxes, etc., wood turning and carving	1,228	785	616	430	267	365	3,691
XI. Furniture of wood, bedding, etc.	224	133	63	52	30	5	507
XII. Paper, stationery, printing, bookbinding, etc.	3,499	4,064	705	662	296	1,132	10,358
XIII. Rubber	902	1,238	153	154	52	28	2,527
XIV. Musical instruments	42	7	1	..	..	..	50
XV. Miscellaneous products	980	1,417	22	60	28	3	2,510
Total, Classes I. to XV.	63,022	42,506	9,608	10,810	5,924	4,686	136,556
XVI. Heat, light and power	11,295	4,495	2,603	1,177	1,333	751	21,654
Grand Total	74,317	47,001	12,211	11,987	7,257	5,437	158,210

5. Land and Buildings, Plant and Machinery—Values, Additions and Replacements, Depreciation, 1957-58 to 1961-62.—The following table summarizes the recorded totals for Australia in this section and also includes particulars of additions and replacements.

**FACTORIES: VALUE OF LAND AND BUILDINGS, PLANT AND MACHINERY,
AUSTRALIA**
(£'000)

Year	Book values at 30th June(a)		Additions and replacements during year(a)		Depreciation allowed during year	
	Land and buildings	Plant and machinery	Land and buildings	Plant and machinery	Land and buildings	Plant and machinery
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
1959-60.. ..	1,063,852	1,220,064	101,971	231,162	13,303	108,486
1960-61.. ..	1,193,590	1,391,490	90,018	244,048	16,902	125,269
1961-62.. ..	1,403,838	1,524,787	179,861	280,466	18,446	139,764

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

§ 10. Principal Factory Products

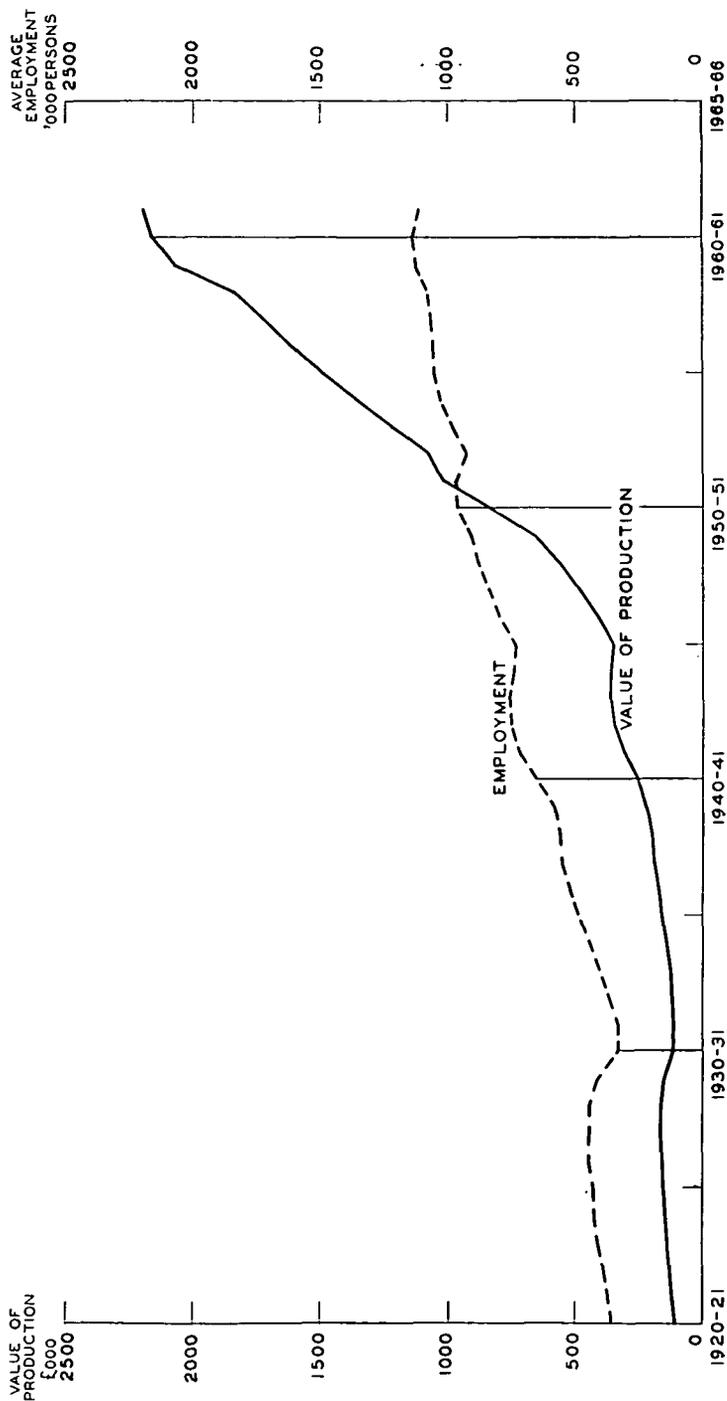
The factory production of certain commodities is shown in the monthly and quarterly publications of this Bureau, in the series *Manufacturing Industries*, and in the bulletin *Secondary Industries, Part II.—Materials Used and Articles Produced in Factories* (see NOTE at beginning of this chapter).

QUANTITY OF PRINCIPAL ARTICLES PRODUCED IN FACTORIES:
AUSTRALIA—continued

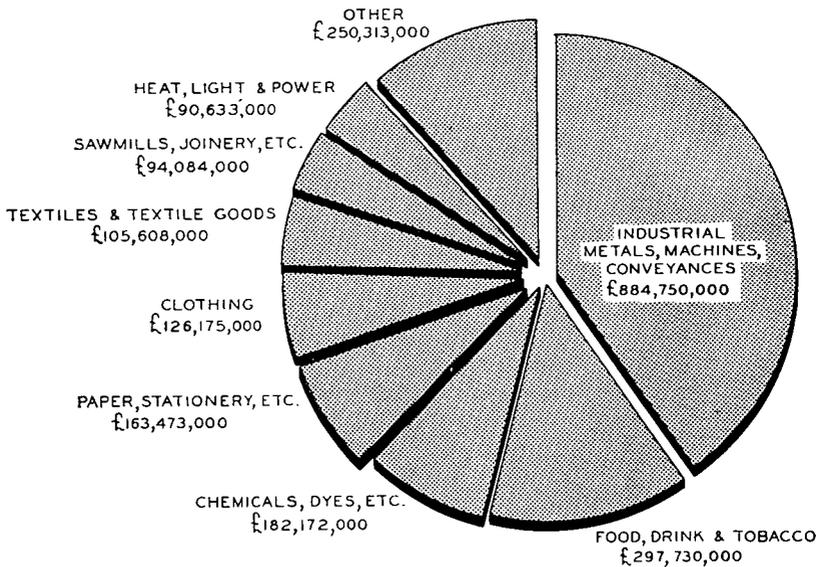
Article	1959-60	1960-61	1961-62	1962-63(a)
Custard powder '000 lb.	5,577	5,559	5,770	(b)
Cycles, assembled no.	69,835	64,384	55,065	59,446
Dynamos—				
Alternators no.	611	582	687	(b)
Generators "	4,836	5,381	3,825	(b)
Electricity mill. kWh	23,199	24,814	26,275	29,215
Engines—				
Diesel, other than marine no.	3,216	3,072	2,450	2,548
Petrol—				
Marine "	5,174	9,120	6,137	5,874
Other (c) "	291,909	183,731	203,495	267,622
Essences, flavouring—				
Culinary gals.	108,158	101,445	131,281	(b)
Industrial "	379,774	447,779	480,951	(b)
Face powder cwt.	2,974	2,180	2,279	(b)
Fans, electric no.	208,671	267,520	183,819	146,400
Fats, edible '000 lb.	52,075	66,710	75,963	55,248
Felt sq. yds.	11,556,810	10,972,314	11,373,294	(b)
Fence posts tons	43,397	54,820	37,397	53,474
Fibrous plaster sheets '000 sq. yds.	18,598	17,176	15,332	15,291
Fish, canned (including fish loaf) '000 lb.	8,018	8,260	12,089	10,343
Floorboards—				
Australasian timber '000 super. ft.	151,867	144,817	135,063	(b)
Imported timber "	2,181	1,178	733	(b)
Flour, self-raising cwt.	983,622	955,417	1,038,898	(b)
wheaten (d) tons (2,000 lb.)	1,507,213	1,563,503	1,505,546	1,445,774
Footwear (not rubber)—				
Boots, shoes and sandals '000 pairs	25,629	24,307	25,995	26,433
Slippers "	9,752	10,308	9,827	10,445
Fruit juices, natural '000 gals.	5,143	4,889	6,837	(b)
Gas (town) mill. cubic ft.	49,593	50,684	50,246	51,040
Gloves—				
Dress—				
Leather doz. pairs	930	330	527	249
Other "	58,304	43,013	27,161	27,336
Work, all types "	371,011	400,690	861,841	1,003,440
Golf clubs doz.	16,007	27,002	36,173	29,549
Handkerchiefs—				
Men's "	1,276,622	1,595,645	1,552,687	(b)
Women's "	1,617,728	1,685,630	1,455,530	(b)
Hats and caps (excluding berets) (e) "	561,323	548,745	575,133	(b)
Hose, rubber, garden '000 lin. ft.	2,494	2,179	2,152	(b)
other "	11,706	11,840	10,644	(b)
Plastic, garden "	33,743	36,408	36,296	(b)
Ice tons	326,098	278,848	252,669	(b)
Ice cream '000 gals.	16,524	17,770	19,221	20,509
Ice cream mix powder tons	743	557	607	569
Infants' and invalids' foods (f) "	15,985	16,257	17,025	18,226
Iron and steel—				
Pig iron '000 tons	2,655	3,002	3,380	3,399
Steel ingots "	3,520	3,748	4,076	4,265
Blooms and slabs "	3,022	3,193	3,326	3,709
Irons, electric (hand, domestic) no.	334,247	286,359	305,374	353,485
Jams '000 lb.	84,702	83,080	98,313	90,788
Jelly crystals "	12,551	12,679	13,656	(b)
Lacquer, clear and colours gals.	1,794,192	1,366,721	1,309,553	1,433,348
Lard cwt.	43,137	50,094	47,463	(b)
Lawn mowers—				
Petrol no.	246,721	199,295	202,577	218,328
Hand "	11,642	8,684	6,178	8,035
Leather—				
Dressed from hides, sold by measurement '000 sq. ft.	59,597	54,826	62,357	(b)
sold by weight '000 lb.	199	140	122	(b)
skins '000 sq. ft.	17,723	18,854	15,920	(b)
Harness, skirt, belting, etc. '000 lb.	1,121	1,131	1,205	(b)
Sole "	22,432	23,355	20,137	(b)
Upholstery '000 sq. ft.	1,276	863	736	(b)
Lime, crushed tons	149,137	161,632	191,501	(b)
Hydrated "	56,846	62,317	85,126	(b)
Quick "	98,262	98,425	96,792	(b)

(a) Subject to revision. (b) Not yet available. (c) Excludes motor car, motor cycle, tractor and aero engines. (d) Includes wheatmeal for baking and sharps. (e) Includes hoods and capelines. (f) Includes malted milk and milk sugar (lactose).

VALUE OF PRODUCTION AND AVERAGE EMPLOYMENT IN AUSTRALIAN FACTORIES, 1920-21 TO 1961-62



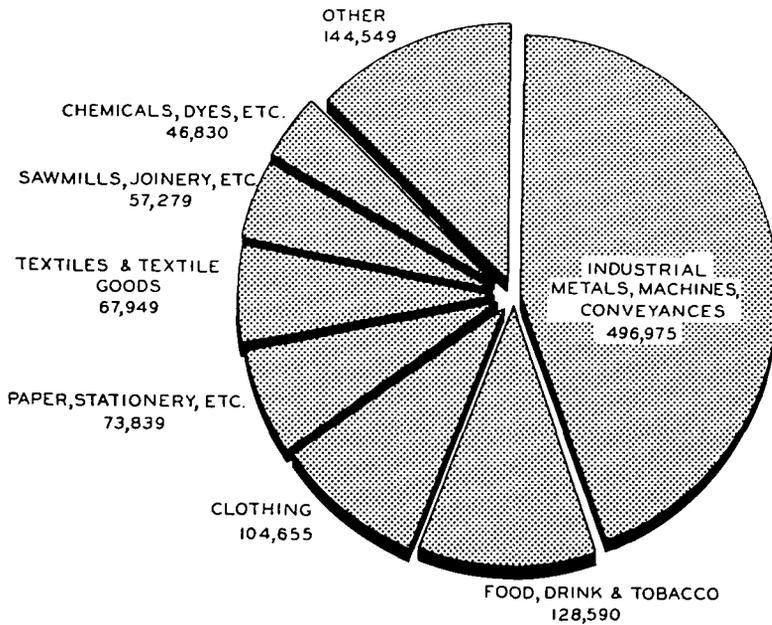
VALUE OF PRODUCTION*
OF AUSTRALIAN FACTORIES
BY INDUSTRIAL CLASS, 1961-62



*"VALUE OF PRODUCTION" IS THE VALUE ADDED IN THE PROCESS OF MANUFACTURE

ALL CLASSES - £2,194,938,000

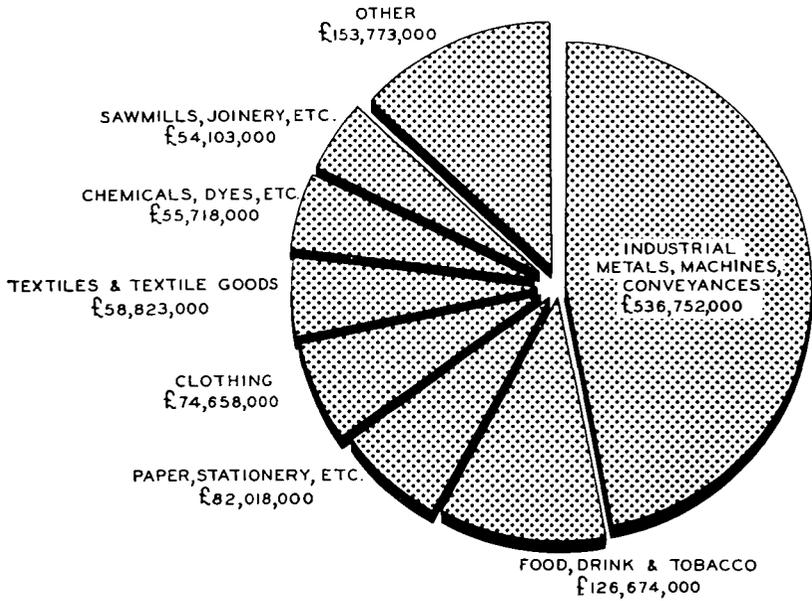
AVERAGE NUMBER OF PERSONS EMPLOYED*
 IN AUSTRALIAN FACTORIES
 BY INDUSTRIAL CLASS, 1961-62



* AVERAGE OVER WHOLE YEAR INCLUDING WORKING PROPRIETORS

ALL CLASSES - 1,120,666

TOTAL SALARIES AND WAGES PAID*
BY AUSTRALIAN FACTORIES
BY INDUSTRIAL CLASS, 1961-62



* AMOUNTS DRAWN BY WORKING PROPRIETORS ARE EXCLUDED

ALL CLASSES - £1,142,519,000

QUANTITY OF PRINCIPAL ARTICLES PRODUCED IN FACTORIES:
AUSTRALIA—continued

Article	1959-60	1960-61	1961-62	1962-63(a)
Linseed oil, extracted from local crushing from treatment of unrefined .. '000 gals.	1,235	1,995	1,048	(b)
Lubricating oil "	2,317	1,767	2,145	(b)
.. .. . "	13,694	13,720	13,123	(b)
Malt, barley '000 bus.	8,435	9,015	10,207	10,377
Margarine—				
Table '000 lb.	35,810	36,117	35,262	36,052
Other "	58,784	61,307	65,066	67,827
Mattresses, wire no.	389,208	390,831	429,588	419,964
Inner spring "	619,165	593,779	635,298	643,600
Soft filled, etc. "	294,224	288,733	286,163	255,794
Meat, canned '000 lb.	156,594	111,440	117,088	95,748
Milk—condensed, concentrated and evaporated—				
Full cream—sweetened '000 lb.	75,862	66,156	63,299	78,808
Unsweetened(c) "	73,990	71,830	77,144	76,703
Skim and/or buttermilk "	9,992	10,044	12,004	19,251
Milk powder—				
Full cream tons	19,591	18,555	20,234	17,578
Skim "	41,204	36,952	37,696	42,580
Buttermilk and whey "	7,215	7,828	8,445	9,561
Mops, floor gross	15,426	16,116	17,449	(b)
Motor bodies no.	303,020	300,136	261,059	262,257
Motor spirit (including benzol) '000 gals.	1,079,380	1,142,359	1,222,702	1,262,767
Motors, electric no.	1,684,833	1,862,112	1,699,865	1,910,040
Mustard lb.	959,522	881,922	949,522	(b)
Nails tons	25,858	25,138	22,186	23,536
Neckties doz.	497,457	492,268	516,975	(b)
Newsprint tons	88,510	88,039	89,758	90,245
Oatmeal (including rolled oats) cwt.	313,441	317,365	312,225	301,269
Paint—				
Ready-mixed—liquid and enamels '000 gals.	12,880	12,729	13,290	12,890
Other than water, in paste form (heavy-bodied whites, etc.) '000 lb.	3,957	3,322	3,160	3,082
Water—				
Emulsion type '000 gals.	2,549	2,492	2,778	3,073
Powder (including kalsomine) '000 lb.	2,793	2,736	2,540	2,228
Peanut butter and paste "	6,406	6,976	7,488	(b)
Perambulators no.	153,332	145,468	145,236	140,440
Pickles '000 pints	8,470	9,324	6,038	(b)
Pigments, tinting colours ground in oil gals.	37,842	38,897	53,859	(b)
Zinc oxide cwt.	153,842	147,068	122,847	(b)
Other (synthetic or chemical) "	867,150	1,402,761	1,420,338	(b)
Plywood, $\frac{1}{2}$ inch basis '000 sq. ft.	242,099	223,383	202,807	(b)
Pollard tons (2,000 lb.)	317,690	325,726	315,381	299,590
Preserves—				
Fruit preserved(d) '000 lb.	344,294	307,866	450,484	429,370
Pulp and puree cwt.	115,418	135,546	128,124	(b)
Vegetables preserved '000 lb.	83,159	99,728	133,362	131,066
Pyjamas—				
Men's and boys' (suits only) doz.	340,754	342,631	361,459	398,160
Women's and girls' (incl. nightdresses) "	541,804	552,835	485,078	606,326
Racquet frames (all types) "	17,463	12,673	12,538	14,958
Refrigerators, domestic no.	237,328	219,506	219,415	204,805
Resins, plastic and synthetic '000 cwt.	1,156	1,062	1,399	1,649
Rice (cleaned)(e) cwt.	1,583,301	1,744,310	1,537,899	(b)
Ropes and cables (excluding wire) "	145,658	141,396	139,789	143,026
Rugs '000	179	183	161	194
Sauce '000 pints	34,281	36,891	34,257	(b)
Semolina tons (2,000 lb.)	8,492	11,453	11,385	10,136
Shirts (men's and boys') doz.	1,838,603	1,818,528	1,619,864	1,954,306
Sink heaters no.	17,094	15,901	15,195	13,239
Soap and detergents—				
Soap, personal toilet cwt.	375,806	403,511	400,276	417,887
Household "	727,135	711,127	683,834	699,279
Industrial (incl. wool scouring)(f) "	153,960	125,382	92,224	75,035
Extracts and powders, household "	731,054	594,035	562,196	593,847
Industrial "	95,095	91,638	91,923	94,965
Detergents, personal toilet "	12,108	13,664	18,467	17,662
Household "	220,437	255,704	311,387	373,181
Industrial "	36,057	36,068	37,707	44,797
Extracts and powders—				
Household "	338,580	425,599	473,747	477,131
Industrial "	64,523	73,804	72,500	88,105

(a) Subject to revision. (b) Not yet available. (c) Includes liquid ice-creams mix.
(d) Includes canned apple, all types. (e) Polished, unpolished or broken. (f) Includes industrial flakes and chips.

QUANTITY OF PRINCIPAL ARTICLES PRODUCED IN FACTORIES:
AUSTRALIA—continued

Article	1959-60	1960-61	1961-62	1962-63(a)
Socks and stockings—				
Men's and youths' '000 doz. pairs	1,557	1,359	1,419	1,624
Women's and maids' "	2,810	2,834	3,039	3,630
Children's and infants' "	1,188	840	901	899
Soup, canned '000 pints	41,138	49,071	44,650	(b)
dry-mix '000 lb.	5,363	6,217	6,267	(b)
Spades and shovels doz.	36,156	32,163	36,670	(b)
Starch "	709,326	645,925	742,491	800,879
Stearine (stearic acid) "	82,265	72,331	88,269	64,175
Steel, structural, fabricated tons	324,729	379,553	401,440	(b)
Stoves, ovens and ranges—				
Domestic cooking—				
Electric(c) no.	116,594	107,923	132,121	128,291
Gas "	98,745	92,306	87,326	68,316
Solid fuel "	36,855	31,722	28,712	26,883
Sugar, raw (94 net titre) tons	1,287,546	1,382,611	1,382,841	1,849,817
Refined "	540,087	524,784	553,472	564,534
Sulphate of ammonia "	104,861	98,988	103,918	95,267
Superphosphate(d) "	2,379,975	2,530,884	2,591,379	2,861,580
Talcum powder cwt.	47,097	49,751	55,278	(b)
Tallow—				
Edible (including dripping) "	1,040,059	1,032,534	1,348,635	(b)
Inedible "	2,349,131	1,978,671	2,808,780	(b)
Television sets no.	435,458	315,966	289,493	292,543
Tiles, roofing—				
Cement '000	56,896	52,654	53,220	60,593
Terracotta "	56,873	55,185	50,048	51,050
Timber—				
From native logs—				
Hardwood '000 super. ft.	1,208,595	1,152,995	1,063,086	} 1,350,759
Softwood "	312,451	264,838	289,117	
From imported logs—				
Hardwood "	40,479	35,330	21,249	(b)
Softwood "	2,902	2,999	6,685	(b)
Toasters, electric (domestic) no.	211,152	235,158	216,923	285,354
Tobacco '000 lb.	15,262	15,259	13,011	11,493
Tomato juice gals.	1,298,088	2,082,245	2,354,954	2,029,489
Paste '000 pints	6,568	14,067	12,357	(b)
Pulp "	852,913	1,093,841	591,219	(b)
Towels doz.	862,814	695,241	762,400	731,392
Tractors no.	10,699	8,609	8,592	(b)
Transformers, chokes and ballasts—				
For distribution of power and light, etc. "	63,314	75,730	17,693	(b)
For fluorescent lights and neon signs "	1,732,313	2,153,124	1,766,410	(b)
For radio receivers, record players, etc. "	334,818	310,603	325,157	(b)
For television receivers "	325,097	186,038	185,666	(b)
For other purposes "	99,266	171,865	212,236	(b)
Tubes, rubber "	2,965,146	3,029,568	2,834,781	3,143,700
Twine (all types) cwt.	156,963	213,278	142,142	164,189
Tyres, pneumatic—				
Motor car and motor cycle no.	3,514,529	3,654,861	3,468,724	4,305,575
Truck and omnibus "	472,147	470,244	354,124	480,427
Aero and tractor "	212,224	199,916	179,401	228,133
Umbrellas "	605,857	640,643	694,128	(b)
Underwear (men's, women's, children's) '000 doz.	5,170	5,420	5,495	5,636
Vacuum cleaners (domestic) no.	95,766	109,753	114,189	127,348
Washing machines, household, electric "	201,873	195,541	220,102	213,763
Weatherboards—				
Australian timber '000 super. ft.	27,635	26,743	25,146	(b)
Imported timber "	1,181	930	1,378	(b)
Wheatmeal(e) tons (2,000 lb.)	83,943	114,140	101,750	72,265
Wheelbarrows (metal) no.	93,316	81,988	85,292	(b)
Wireless and television cabinets "	653,058	533,022	433,463	478,281
Wireless receiving sets (incl. radiograms) "	402,588	454,786	367,359	499,969
Wool scoured '000 lb.	174,921	154,104	161,656	168,515
Wool tops "	48,021	40,781	46,031	48,407
Yarn(f)—				
Cotton "	45,682	42,276	42,473	46,788
Woolen "	27,412	25,732	24,336	27,330
Worsted "	23,885	23,347	22,519	24,527
Zinc oxide (see pigments)				

(a) Subject to revision. (b) Not yet available. (c) Includes stovettes, cookers, etc.
(d) Supplied by Superphosphate Industry Committee. (e) Excludes wheatmeal for baking included with flour. (f) Includes mixtures predominantly of the fibre mentioned.

§ 11. Individual Industries

1. **General.**—Particulars on pages 147-174, §§ 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 or 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.

Details of some of the principal articles produced in factories in Australia during the years 1959-60 to 1962-63 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 1961-62 and for a series of years in the following table.

PORTLAND CEMENT, ASBESTOS CEMENT SHEETS, ETC., AND OTHER CEMENT GOODS
AUSTRALIA, 1961-62

Particulars	Portland cement	Asbestos cement sheets and mouldings	Other cement goods	Total
Number of factories	15	15	570	600
Number of persons employed	3,126	2,793	7,046	12,965
Salaries and wages paid £'000	3,908	3,457	8,086	15,451
Value of power, fuel, etc., used £'000	5,042	517	494	6,053
Value of materials used £'000	7,522	6,572	26,399	40,493
Value of production £'000	11,755	6,768	17,007	35,530
Total value of output £'000	24,319	13,857	43,900	82,076
Value of land and buildings £'000	4,622	3,840	7,310	15,772
Value of plant and machinery £'000	21,144	4,580	9,399	35,123
Horse-power of engines ordinarily in use h.p.	101,693	22,446	31,886	155,925

AUSTRALIA

Particulars	1957-58	1958-59	1959-60	1960-61	1961-62
Number of factories	481	499	523	577	600
Number of persons employed	10,994	11,392	12,054	12,998	12,965
Salaries and wages paid £'000	10,864	11,648	13,431	15,122	15,451
Value of power, fuel, etc., used £'000	5,124	5,265	5,616	5,968	6,053
Value of materials used £'000	25,579	28,739	33,394	40,326	40,493
Value of production £'000	23,121	26,179	30,785	34,905	35,530
Total value of output £'000	53,824	60,183	69,795	81,199	82,076
Value of land and buildings £'000	7,407	8,308	10,614	13,549	15,772
Value of plant and machinery £'000	19,823	21,754	24,274	31,683	35,123
Horse-power of engines ordinarily in use h.p.	106,905	125,082	132,710	145,903	155,925

3. **Bricks, Tiles, Pottery and Earthenware.**—The following table shows particulars of this industry for each State for the year 1961-62 and for Australia for a series of years.

BRICKS, TILES, POTTERY AND EARTHENWARE
1961-62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	182	105	45	52	31	12	427
Number of persons employed	6,864	4,129	981	1,037	1,028	266	14,305
Salaries and wages paid £'000	7,990	4,510	966	1,182	1,061	290	15,999
Value of power, fuel, etc., used £'000	2,508	1,498	353	465	418	124	5,366
Value of materials used £'000	4,030	2,900	351	586	430	127	8,424
Value of production £'000	12,778	7,413	1,725	1,814	1,921	432	26,683
Total value of output £'000	19,316	11,811	2,429	2,865	2,769	683	39,873
Value of land and buildings £'000	7,132	3,734	778	691	662	154	13,151
Value of plant and machinery £'000	8,969	4,157	1,462	1,163	753	288	16,792
Horse-power of engines ordinarily in use h.p.	44,061	32,734	9,539	9,256	10,226	2,075	108,491

BRICKS, TILES, POTTERY AND EARTHENWARE—*continued*

AUSTRALIA

Particulars	1957-58	1958-59	1959-60	1960-61	1961-62
Number of factories	436	434	437	434	427
Number of persons employed	13,887	14,276	14,980	15,012	14,305
Salaries and wages paid	£'000 13,396	14,252	15,916	16,663	15,999
Value of power, fuel, etc., used	£'000 4,693	4,983	5,312	5,509	5,366
Value of materials used	£'000 5,990	6,665	7,856	8,495	8,424
Value of production	£'000 20,924	22,934	26,384	27,244	26,083
Total value of output	£'000 31,607	34,582	39,552	41,248	39,873
Value of land and buildings	£'000 8,435	9,616	11,005	12,506	13,151
Value of plant and machinery	£'000 9,348	10,509	11,688	14,376	16,792
Horse-power of engines ordinarily in use	h.p. 93,891	93,403	97,471	101,389	108,491

4. **Industrial and Heavy Chemicals.**—The following table shows particulars of the Industrial and Heavy Chemical industry for each State during 1961-62 and for Australia for a series of years. 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)

1961-62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	157	91	27	16	15	2	308
Number of persons employed	7,088	5,093	414	882	(a)	(a)	13,746
Salaries and wages paid	£'000 9,077	6,813	405	1,198	(a)	(a)	17,724
Value of power, fuel, etc., used	£'000 2,905	2,355	90	567	(a)	(a)	6,015
Value of materials used	£'000 28,410	18,644	1,579	1,162	(a)	(a)	50,586
Value of production	£'000 24,793	16,927	1,055	3,149	(a)	(a)	46,627
Total value of output	£'000 56,108	37,926	2,724	4,878	(a)	(a)	103,228
Value of land and buildings	£'000 15,899	15,418	611	1,698	(a)	(a)	34,059
Value of plant and machinery	£'000 26,156	37,400	1,079	4,979	(a)	(a)	70,576
Horse-power of engines ordinarily in use	h.p. 77,607	71,835	3,372	8,806	(a)	(a)	165,055

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

AUSTRALIA

Particulars	1957-58	1958-59	1959-60	1960-61	1961-62
Number of factories	281	302	287	297	308
Number of persons employed	15,085	15,813	14,423	13,945	13,746
Salaries and wages paid	£'000 15,875	17,240	17,146	17,474	17,724
Value of power, fuel, etc., used	£'000 4,208	4,616	4,874	4,652	6,015
Value of materials used	£'000 43,497	46,605	46,212	43,811	50,586
Value of production	£'000 35,930	42,512	43,497	41,065	46,627
Total value of output	£'000 83,635	93,733	94,583	89,528	103,228
Value of land and buildings	£'000 21,055	22,948	24,657	28,509	34,059
Value of plant and machinery	£'000 36,157	38,137	41,326	44,518	70,576
Horse-power of engines ordinarily in use	h.p. 121,393	130,928	117,311	124,629	165,055

5. **Pharmaceutical and Toilet Preparations.**—The following table shows particulars of the Pharmaceutical and Toilet Preparations industry for each State during 1961–62 and for Australia for a series of years.

PHARMACEUTICAL AND TOILET PREPARATIONS

1961–62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	126	63	6	13	3	..	211
Number of persons employed	4,214	3,066	(a)	473	(a)	..	7,910
Salaries and wages paid £'000	4,046	3,295	(a)	401	(a)	..	7,864
Value of power, fuel, etc., used £'000	204	556	(a)	33	(a)	..	797
Value of materials used £'000	16,279	7,758	(a)	1,294	(a)	..	25,586
Value of production £'000	23,747	8,299	(a)	767	(a)	..	33,129
Total value of output £'000	40,230	16,613	(a)	2,094	(a)	..	59,512
Value of land and buildings £'000	7,360	6,671	(a)	344	(a)	..	14,544
Value of plant and machinery £'000	2,442	3,124	(a)	114	(a)	..	5,732
Horse-power of engines ordinarily in use h.p.	7,115	11,375	(a)	1,653	(a)	..	20,322

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

AUSTRALIA

Particulars	1957–58	1958–59	1959–60	1960–61	1961–62
Number of factories	212	210	216	212	211
Number of persons employed	6,834	6,976	7,791	7,805	7,910
Salaries and wages paid £'000	5,531	5,886	7,074	7,448	7,864
Value of power, fuel, etc., used £'000	386	754	810	842	797
Value of materials used £'000	18,226	19,575	23,311	23,629	25,586
Value of production £'000	21,856	23,130	28,985	32,156	33,129
Total value of output £'000	40,468	43,459	53,106	56,627	59,512
Value of land and buildings £'000	9,677	10,750	11,528	13,431	14,544
Value of plant and machinery £'000	3,262	4,519	5,347	6,003	5,732
Horse-power of engines ordinarily in use h.p.	14,962	16,702	18,084	19,237	20,322

6. **White Lead, Paints and Varnish.**—The following table shows particulars of this industry for each State during 1961–62 and for Australia for a series of years.

WHITE LEAD, PAINTS AND VARNISH

1961–62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	84	52	17	18	14	3	188
Number of persons employed	2,789	1,409	339	398	144	17	5,096
Salaries and wages paid £'000	3,250	1,510	305	446	141	17	5,669
Value of power, fuel, etc., used £'000	248	108	13	27	7	1	404
Value of materials used £'000	14,039	8,030	1,816	1,954	805	118	26,762
Value of production £'000	8,309	3,680	1,319	1,590	486	84	15,468
Total value of output £'000	22,596	11,818	3,148	3,571	1,298	203	42,634
Value of land and buildings £'000	3,537	2,829	358	653	320	48	7,745
Value of plant and machinery £'000	2,085	2,731	128	382	99	15	5,440
Horse-power of engines ordinarily in use h.p.	13,367	10,903	1,526	1,869	899	216	28,780

AUSTRALIA

Particulars	1957–58	1958–59	1959–60	1960–61	1961–62
Number of factories	184	188	181	182	188
Number of persons employed	5,749	5,532	5,475	5,208	5,096
Salaries and wages paid £'000	5,608	5,448	5,710	5,746	5,669
Value of power, fuel, etc., used £'000	445	419	416	393	404
Value of materials used £'000	24,619	25,448	26,892	24,924	26,762
Value of production £'000	13,853	13,184	15,446	15,407	15,468
Total value of output £'000	38,917	39,051	42,754	40,724	42,634
Value of land and buildings £'000	6,397	6,327	6,942	7,736	7,745
Value of plant and machinery £'000	3,986	3,696	4,219	4,177	5,440
Horse-power of engines ordinarily in use h.p.	25,443	25,093	25,879	27,952	28,780

7. Mineral Oil Extraction and Refining.—Particulars of factories engaged in the extraction and refining of mineral oil products are shown in the following table for each State for the year 1961-62 and for Australia for a series of years.

MINERAL OILS

1961-62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	35	20	7	9	6	..	77
Number of persons employed	2,703	1,341	102	(a)	(a)	..	5,028
Salaries and wages paid .. £'000	4,025	2,044	131	(a)	(a)	..	7,356
Value of power, fuel, etc., used .. £'000	3,315	2,755	51	(a)	(a)	..	7,990
Value of materials used	54,432	50,589	1,604	(a)	(a)	..	136,357
Value of production	£'000 9,212	15,682	1,009	(a)	(a)	..	36,338
Total value of output	£'000 66,959	69,076	2,664	(a)	(a)	..	180,685
Value of land and buildings .. £'000	12,486	5,116	213	(a)	(a)	..	19,517
Value of plant and machinery .. £'000	52,977	27,882	553	(a)	(a)	..	95,475
Horse-power of engines ordinarily in use h.p.	79,436	38,492	791	(a)	(a)	..	145,383

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

AUSTRALIA

Particulars	1957-58	1958-59	1959-60	1960-61	1961-62
Number of factories	69	70	70	76	77
Number of persons employed	4,718	4,888	4,972	5,020	5,028
Salaries and wages paid £'000	5,617	5,990	6,514	7,062	7,356
Value of power, fuel, etc., used £'000	7,864	7,531	7,848	7,537	7,990
Value of materials used	£'000 122,798	123,526	133,417	136,503	136,357
Value of production	£'000 32,661	39,149	43,724	44,405	36,338
Total value of output	£'000 163,323	170,206	184,989	188,445	180,685
Value of land and buildings £'000	16,645	19,154	18,261	18,493	19,517
Value of plant and machinery £'000	73,072	85,504	84,954	86,755	95,475
Horse-power of engines ordinarily in use h.p.	90,977	106,771	108,231	132,640	145,383

8. Soap and Candle Factories.—The following table shows particulars of factories in the Soap and Candle industry in each State for 1961-62 and for Australia for a series of years.

SOAP AND CANDLES

1961-62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	60	31	10	7	6	3	117
Number of persons employed	2,012	903	236	44	(a)	(a)	3,290
Salaries and wages paid £'000	2,227	1,010	218	29	(a)	(a)	3,568
Value of power, fuel, etc., used £'000	174	218	20	4	(a)	(a)	421
Value of materials used	£'000 9,217	5,783	661	118	(a)	(a)	16,138
Value of production	£'000 9,607	4,615	533	81	(a)	(a)	15,022
Total value of output	£'000 18,998	10,616	1,214	203	(a)	(a)	31,561
Value of land and buildings £'000	1,389	1,312	162	36	(a)	(a)	3,000
Value of plant and machinery £'000	2,152	996	178	35	(a)	(a)	3,440
Horse-power of engines ordinarily in use h.p.	7,796	4,985	924	329	(a)	(a)	14,495

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

SOAP AND CANDLES—continued

AUSTRALIA

Particulars	1957-58	1958-59	1959-60	1960-61	1961-62
Number of factories	90	89	(a) 120	119	117
Number of persons employed	2,983	2,929	3,210	3,234	3,290
Salaries and wages paid £'000	2,830	2,822	3,220	3,538	3,568
Value of power, fuel, etc., used £'000	441	387	383	431	421
Value of materials used £'000	14,446	15,253	15,835	16,279	16,138
Value of production £'000	10,525	11,941	14,131	15,209	15,002
Total value of output £'000	25,412	27,581	30,349	31,919	31,561
Value of land and buildings £'000	1,871	2,039	2,652	2,965	3,000
Value of plant and machinery £'000	2,973	3,118	3,054	3,220	3,440
Horse-power of engines ordinarily in use h.p.	11,296	12,632	13,689	13,983	14,495

(a) The increase in the number of factories is due mainly to the reclassification of a number of factories in New South Wales.

9. Chemical Fertilizers.—The following table shows particulars of the factories engaged in the manufacture of chemical fertilizers in each State during 1961-62 and for Australia for a series of years.

CHEMICAL FERTILIZERS

1961-62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	12	6	4	10	7	8	47
Number of persons employed	578	1,446	(a)	825	986	(a)	4,525
Salaries and wages paid £'000	770	1,824	(a)	921	1,091	(a)	5,469
Value of power, fuel, etc., used £'000	121	225	(a)	82	154	(a)	970
Value of materials used £'000	4,289	8,068	(a)	4,466	6,484	(a)	27,717
Value of production £'000	2,094	3,677	(a)	2,032	2,595	(a)	12,334
Total value of output £'000	6,504	11,970	(a)	6,580	9,233	(a)	41,021
Value of land and buildings £'000	1,330	986	(a)	1,040	1,947	(a)	6,280
Value of plant and machinery £'000	1,771	1,564	(a)	2,711	1,921	(a)	8,734
Horse-power of engines ordinarily in use h.p.	7,709	15,283	(a)	11,170	9,676	(a)	55,089

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

AUSTRALIA

Particulars	1957-58	1958-59	1959-60	1960-61	1961-62
Number of factories	49	48	49	44	47
Number of persons employed	5,050	4,959	4,763	4,567	4,525
Salaries and wages paid £'000	5,309	5,207	5,369	5,475	5,469
Value of power, fuel, etc., used £'000	950	995	994	1,002	970
Value of materials used £'000	28,862	25,756	26,348	26,930	27,717
Value of production £'000	12,175	11,440	11,520	12,325	12,334
Total value of output £'000	41,987	38,191	38,862	40,257	41,021
Value of land and buildings £'000	7,583	7,633	7,508	6,072	6,280
Value of plant and machinery £'000	10,835	10,808	10,257	8,651	8,734
Horse-power of engines ordinarily in use h.p.	58,212	57,587	58,519	53,194	55,089

10. Iron and Steel Works and Engineering.—(i) *General.* The first group included under this heading (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 1961-62 and for Australia for a series of years for the group Smelting, Converting, Refining and Rolling of Iron and Steel.

SMELTING, CONVERTING, REFINING AND ROLLING OF IRON AND STEEL
1961-62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	17	11	..	4	2	..	34
Number of persons employed ..	32,235	1,301	..	(a)	(a)	..	34,504
Salaries and wages paid .. £'000	41,595	1,538	..	(a)	(a)	..	44,237
Value of power, fuel, etc., used .. £'000	31,105	384	..	(a)	(a)	..	33,953
Value of materials used .. £'000	156,690	2,095	..	(a)	(a)	..	163,778
Value of production .. £'000	89,346	1,986	..	(a)	(a)	..	97,653
Total value of output .. £'000	277,141	4,465	..	(a)	(a)	..	295,384
Value of land and buildings .. £'000	33,286	1,110	..	(a)	(a)	..	36,972
Value of plant and machinery .. £'000	167,531	1,687	..	(a)	(a)	..	180,428
Horse-power of engines ordinarily in use h.p.	747,561	11,747	..	(a)	(a)	..	778,470

AUSTRALIA

Particulars	1957-58	1958-59	1959-60	1960-61	1961-62
Number of factories	35	34	35	34	34
Number of persons employed ..	28,526	29,982	31,825	33,804	34,504
Salaries and wages paid .. £'000	31,469	34,220	38,793	45,721	44,237
Value of power, fuel, etc., used .. £'000	22,150	23,539	30,202	33,929	33,953
Value of materials used £'000	137,674	153,563	162,677	174,276	163,778
Value of production £'000	70,379	78,154	86,256	100,618	97,653
Total value of output £'000	230,203	255,256	279,135	308,823	295,384
Value of land and buildings £'000	9,953	11,400	14,417	31,660	36,972
Value of plant and machinery £'000	71,048	82,451	95,110	147,676	180,428
Horse-power of engines ordinarily in use h.p.	536,530	633,180	690,291	757,451	778,470

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

Particulars of the production of pig-iron and steel will be found on page 176 and in Chapter XXVI. Mineral Industry.

(iii) *Foundries (Ferrous).* Particulars covering those industries classified as founding of iron and steel are shown for each State for 1961-62 and for Australia for a series of years in the following table.

FOUNDRIES—FERROUS

1961-62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	79	95	26	22	17	..	239
Number of persons employed ..	2,570	2,278	1,032	720	583	..	7,183
Salaries and wages paid .. £'000	2,983	2,672	1,062	798	574	..	8,089
Value of power, fuel, etc., used .. £'000	349	365	92	88	122	..	1,016
Value of materials used £'000	2,344	2,233	1,313	937	571	..	7,398
Value of production £'000	3,911	3,835	1,575	1,089	833	..	11,243
Total value of output £'000	6,604	6,433	2,980	2,114	1,526	..	19,657
Value of land and buildings £'000	1,822	1,906	614	346	352	..	5,040
Value of plant and machinery £'000	1,213	1,276	458	366	266	..	3,579
Horse-power of engines ordinarily in use h.p.	11,332	9,800	3,708	3,900	2,766	..	31,506

FOUNDRIES—FERROUS—*continued*

AUSTRALIA

Particulars	1957-58	1958-59	1959-60	1960-61	1961-62
Number of factories	373	346	312	245	239
Number of persons employed	7,801	7,376	7,853	7,797	7,183
Salaries and wages paid £'000	7,548	7,293	8,504	8,776	8,089
Value of power, fuel, etc., used £'000	997	955	1,121	1,114	1,016
Value of materials used £'000	6,664	6,687	7,905	8,654	7,398
Value of production £'000	11,237	10,615	12,325	12,756	11,243
Total value of output £'000	18,898	18,257	21,351	22,524	19,657
Value of land and buildings £'000	4,244	3,912	4,866	5,128	5,040
Value of plant and machinery £'000	3,615	2,963	3,791	3,727	3,579
Horse-power of engines ordinarily in use h.p.	33,042	31,612	32,455	31,471	31,506

(iv) *Plant, Equipment and Machinery (including Machine Tools)*. The next table shows particulars for this group for each State during 1961-62 and for Australia for a series of years.

PLANT, EQUIPMENT AND MACHINERY (INCLUDING MACHINE TOOLS)

1961-62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	1,268	829	202	252	168	25	2,744
Number of persons employed	30,386	27,023	5,950	10,154	3,432	519	77,464
Salaries and wages paid £'000	36,208	30,574	5,782	10,275	3,426	529	86,794
Value of power, fuel, etc., used £'000	1,389	1,300	272	642	137	19	3,759
Value of materials used £'000	63,763	48,463	8,701	20,658	6,199	680	148,464
Value of production £'000	60,323	50,681	9,632	16,116	5,220	769	142,741
Total value of output £'000	125,475	100,444	18,605	37,416	11,556	1,468	294,964
Value of land and buildings £'000	30,977	29,122	3,876	6,702	2,741	590	74,008
Value of plant and machinery £'000	17,850	18,077	2,869	5,229	1,746	407	46,178
Horse-power of engines ordinarily in use h.p.	113,034	102,174	22,960	40,097	13,951	1,361	293,577

AUSTRALIA

Particulars	1957-58	1958-59	1959-60	1960-61	1961-62
Number of factories	2,240	2,345	2,518	2,587	2,744
Number of persons employed	69,540	70,905	76,096	77,733	77,464
Salaries and wages paid £'000	67,000	70,371	81,885	86,669	86,794
Value of power, fuel, etc., used £'000	2,964	3,161	3,574	3,789	3,759
Value of materials used £'000	114,716	122,408	144,405	152,329	148,464
Value of production £'000	110,365	115,472	138,402	143,925	142,741
Total value of output £'000	228,045	241,041	286,381	300,043	294,964
Value of land and buildings £'000	45,592	49,927	56,116	66,337	74,008
Value of plant and machinery £'000	32,805	36,400	39,407	43,122	46,178
Horse-power of engines ordinarily in use h.p.	236,230	250,580	267,497	278,138	293,577

(v) *Other Engineering*. Details covering jobbing and general engineering works not elsewhere included are shown for each State for 1961-62 and for Australia for a series of years in the following table.

OTHER ENGINEERING

1961-62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	830	990	159	223	156	99	2,457
Number of persons employed	7,583	11,400	1,595	4,721	936	1,662	27,897
Salaries and wages paid £'000	8,306	12,347	1,473	4,908	802	1,725	29,561
Value of power, fuel, etc., used £'000	359	485	45	122	39	61	1,111
Value of materials used £'000	9,983	15,374	1,420	5,499	1,171	2,511	35,958
Value of production £'000	13,612	20,079	2,220	7,031	1,420	2,830	47,192
Total value of output £'000	23,954	35,938	3,685	12,652	2,630	5,402	84,261
Value of land and buildings £'000	7,596	12,077	993	3,578	734	1,445	26,423
Value of plant and machinery £'000	4,806	7,305	645	3,882	347	605	17,590
Horse-power of engines ordinarily in use h.p.	28,498	39,253	5,490	17,836	4,372	5,796	101,245

OTHER ENGINEERING—continued

AUSTRALIA

Particulars	1957-58	1958-59	1959-60	1960-61	1961-62
Number of factories	2,223	2,220	2,318	2,439	2,457
Number of persons employed	23,370	23,467	25,780	27,997	27,897
Salaries and wages paid £'000	20,768	21,682	25,858	28,794	29,561
Value of power, fuel, etc., used £'000	699	806	1,018	1,048	1,111
Value of materials used £'000	23,780	26,059	31,110	35,141	35,958
Value of production £'000	34,274	34,829	42,264	47,369	47,192
Total value of output £'000	58,753	61,694	74,392	83,558	84,261
Value of land and buildings £'000	15,485	16,655	19,233	24,015	26,423
Value of plant and machinery £'000	10,746	12,201	13,782	16,441	17,590
Horse-power of engines ordinarily in use h.p.	76,500	76,109	89,374	93,019	101,245

11. 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 1961-62 and for Australia for a series of years.

EXTRACTING AND REFINING OF NON-FERROUS METALS: ALLOYS
1961-62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust. (a)	Tas.	Aust.
Number of factories	29	19	5	3	3	3	62
Number of persons employed	1,627	289	1,095	(b)	13	(b)	7,974
Salaries and wages paid £'000	2,175	370	1,261	(b)	13	(b)	10,642
Value of power, fuel, etc., used £'000	974	57	1,075	(b)	4	(b)	5,281
Value of materials used £'000	16,130	4,606	26,478	(b)	45	(b)	71,691
Value of production £'000	4,106	970	2,438	(b)	28	(b)	21,714
Total value of output £'000	21,210	5,633	29,991	(b)	77	(b)	98,686
Value of land and buildings £'000	1,938	486	3,264	(b)	2	(b)	11,956
Value of plant and machinery £'000	7,973	232	7,204	(b)	11	(b)	31,950
Horse-power of engines ordinarily in use h.p.	17,597	933	14,559	(b)	264	(b)	94,081

AUSTRALIA

Particulars	1957-58	1958-59	1959-60	1960-61	1961-62
Number of factories	63	68	71	69	62
Number of persons employed	7,254	7,269	7,438	7,545	7,974
Salaries and wages paid £'000	8,667	8,880	9,535	9,842	10,642
Value of power, fuel, etc., used £'000	4,413	4,724	4,833	4,703	5,281
Value of materials used £'000	58,120	61,060	64,376	74,673	71,691
Value of production £'000	18,138	18,129	20,502	21,984	21,714
Total value of output £'000	80,671	83,913	89,711	101,360	98,686
Value of land and buildings £'000	6,907	7,326	10,105	10,724	11,956
Value of plant and machinery £'000	15,262	15,764	21,495	23,918	31,950
Horse-power of engines ordinarily in use h.p.	76,070	76,680	86,776	90,216	94,081

(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.

12. Electrical Machinery, Cables and Apparatus.—The following table shows particulars of this industry for each State during 1961-62 and for Australia for a series of years.

ELECTRICAL MACHINERY, CABLES AND APPARATUS

1961-62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	647	382	72	131	102	15	1,349
Number of persons employed	32,432	14,844	2,235	2,063	1,061	283	52,918
Salaries and wages paid £'000	35,634	15,954	2,152	2,069	931	280	57,020
Value of power, fuel, etc., used £'000	1,796	863	73	55	31	17	2,835
Value of materials used £'000	69,139	33,790	4,845	3,183	1,346	434	112,737
Value of production £'000	57,535	26,608	3,509	3,224	1,585	556	93,017
Total value of output £'000	128,470	61,261	8,427	6,462	2,962	1,007	208,589
Value of land and buildings £'000	27,243	14,404	1,576	1,532	1,074	178	46,007
Value of plant and machinery £'000	16,636	8,923	1,118	588	373	90	27,728
Horse-power of engines ordinarily in use h.p.	74,674	40,321	8,063	2,406	2,436	426	128,326

ELECTRICAL MACHINERY, CABLES AND APPARATUS—continued

AUSTRALIA

Particulars	1957-58	1958-59	1959-60	1960-61	1961-62
Number of factories	1,132	1,213	1,360	1,339	1,349
Number of persons employed	46,394	50,069	53,089	54,072	52,918
Salaries and wages paid .. £'000	41,892	46,979	54,011	57,179	57,020
Value of power, fuel, etc. used .. £'000	2,155	2,493	2,685	2,821	2,835
Value of materials used .. £'000	84,212	94,964	108,712	110,680	112,737
Value of production £'000	69,589	76,808	90,199	93,897	93,017
Total value of output £'000	155,956	174,265	201,596	207,398	208,589
Value of land and buildings .. £'000	28,316	32,958	38,679	42,775	46,007
Value of plant and machinery .. £'000	20,046	23,627	27,602	26,830	27,728
Horse-power of engines ordinarily in use h.p.	98,679	111,980	118,299	122,609	128,326

13. 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 (sixteen in 1961-62) controlled by non-public bodies are not included in the figures below.*

TRAMCARS AND RAILWAY ROLLING STOCK(a)
1961-62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	34	22	30	13	19	4	122
Number of persons employed	12,962	7,206	7,491	3,871	3,326	610	35,466
Salaries and wages paid .. £'000	13,873	7,325	7,274	3,872	3,068	583	35,995
Value of power, fuel, etc., used .. £'000	447	206	176	123	107	26	1,085
Value of materials used .. £'000	5,037	5,998	3,249	2,999	1,996	345	19,624
Value of production £'000	16,548	9,474	8,482	4,719	3,690	772	43,685
Total value of output £'000	22,032	15,678	11,907	7,841	5,793	1,143	64,394
Value of land and buildings .. £'000	6,276	3,446	1,824	1,789	630	689	14,654
Value of plant and machinery .. £'000	10,957	1,574	1,492	2,424	932	320	17,699
Horse-power of engines ordinarily in use h.p.	41,294	23,964	20,404	15,166	11,487	3,101	115,416

AUSTRALIA

Particulars	1957-58	1958-59	1959-60	1960-61	1961-62
Number of factories	124	139	129	126	122
Number of persons employed	38,079	37,993	36,746	35,323	35,466
Salaries and wages paid .. £'000	32,946	33,599	34,208	34,795	35,995
Value of power, fuel, etc., used .. £'000	1,083	1,080	1,112	1,097	1,085
Value of materials used £'000	20,050	19,563	19,414	19,390	19,624
Value of production £'000	40,685	41,557	41,473	42,889	43,685
Total value of output £'000	61,818	62,200	61,999	63,376	64,394
Value of land and buildings £'000	11,775	12,374	12,761	13,681	14,654
Value of plant and machinery £'000	15,234	16,547	17,174	17,657	17,699
Horse-power of engines ordinarily in use h.p.	114,805	115,162	116,443	116,063	115,416

(a) Government and local authority only.

14. Motor Vehicles.—The industries catering for the motor trade are included in Class IV., Industrial Metals, Machines and Conveyances. In the following table, a summary is given of the principal statistics for 1961-62 for each branch of industry associated with the motor trade of Australia.

MOTOR VEHICLES: CONSTRUCTION, ASSEMBLY, REPAIRS, ETC., AUSTRALIA
1961-62

Particulars	Construction and assembly	Repairs	Motor bodies (a)	Motor accessories	Total
Number of factories	49	10,635	2,151	300	13,135
Number of persons employed	18,422	62,786	27,324	12,273	120,805
Salaries and wages paid .. £'000	22,510	54,204	29,544	13,280	119,538
Value of power, fuel, etc., used .. £'000	1,934	1,787	1,183	959	5,863
Value of materials used £'000	42,280	58,127	57,695	19,878	177,980
Value of production £'000	40,990	85,049	43,962	24,570	194,571
Total value of output £'000	85,204	144,963	102,840	45,407	378,414
Value of land and buildings £'000	26,322	79,055	26,669	12,368	144,414
Value of plant and machinery £'000	20,607	14,730	18,706	14,348	68,391
Horse-power of engines ordinarily in use h.p.	77,377	75,248	74,721	48,947	276,293

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

In the next table, similar details are shown, on a State basis for 1961-62 and for Australia for a series of years, for these industries combined.

MOTOR VEHICLES: CONSTRUCTION, ASSEMBLY, REPAIRS, ETC.

1961-62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	5,387	3,200	1,495	1,481	1,187	385	13,135
Number of persons employed ..	39,996	42,553	10,228	18,179	7,365	2,484	120,805
Salaries and wages paid .. £'000	38,870	44,381	8,170	19,761	6,258	2,098	119,538
Value of power, fuel, etc., used .. £'000	1,804	2,665	276	822	226	70	5,863
Value of materials used .. £'000	71,938	52,798	9,974	30,967	9,993	2,310	177,980
Value of production .. £'000	66,131	71,289	15,569	27,152	10,638	3,792	194,571
Total value of output .. £'000	139,873	126,752	25,819	58,941	20,857	6,172	378,414
Value of land and buildings .. £'000	51,039	58,397	8,492	16,802	6,847	2,837	144,414
Value of plant and machinery .. £'000	17,769	33,240	2,456	12,309	1,962	655	68,391
Horse-power of engines ordinarily in use .. h.p.	77,618	106,397	14,811	58,821	15,245	3,401	276,293

AUSTRALIA

Particulars	1957-58	1958-59	1959-60	1960-61	1961-62
	Number of factories	10,909	11,354	12,089	12,757	13,135
Number of persons employed ..	110,380	113,200	120,231	126,654	120,805
Salaries and wages paid .. £'000	91,886	97,078	113,849	123,607	119,538
Value of power, fuel, etc., used .. £'000	4,250	4,603	5,123	5,879	5,863
Value of materials used .. £'000	143,724	149,577	175,927	191,170	177,980
Value of production .. £'000	148,383	161,569	182,260	195,017	194,571
Total value of output .. £'000	296,357	315,749	363,310	392,066	378,414
Value of land and buildings .. £'000	89,561	99,734	113,762	128,005	144,414
Value of plant and machinery .. £'000	46,630	47,742	50,308	64,735	68,391
Horse-power of engines ordinarily in use h.p.	211,264	223,901	228,410	266,266	276,293

15. Agricultural Machines and Implements.—The following table shows details of establishments classified as agricultural implement works in each State for 1961-62 and for Australia for a series of years.

AGRICULTURAL MACHINES AND IMPLEMENTS

1961-62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	175	125	96	57	44	..	497
Number of persons employed ..	1,790	5,569	1,807	1,764	387	..	11,317
Salaries and wages paid .. £'000	1,814	5,906	1,628	1,741	361	..	11,450
Value of power, fuel, etc., used .. £'000	74	472	96	113	13	..	768
Value of materials used .. £'000	2,282	10,736	2,038	2,587	601	..	18,244
Value of production .. £'000	2,886	8,555	2,776	3,320	625	..	18,162
Total value of output .. £'000	5,242	19,763	4,910	6,020	1,239	..	37,174
Value of land and buildings .. £'000	2,242	4,715	1,252	1,000	378	..	9,587
Value of plant and machinery .. £'000	673	3,093	786	745	145	..	5,442
Horse-power of engines ordinarily in use .. h.p.	5,345	20,199	7,639	6,577	1,579	..	41,339

AUSTRALIA

Particulars	1957-58	1958-59	1959-60	1960-61	1961-62
	Number of factories	370	358	404	450	497
Number of persons employed ..	10,449	10,727	11,359	11,307	11,317
Salaries and wages paid .. £'000	9,534	10,178	11,316	11,436	11,450
Value of power, fuel, etc., used .. £'000	638	674	722	737	768
Value of materials used .. £'000	13,438	14,162	17,607	17,324	18,244
Value of production .. £'000	15,599	15,426	16,847	16,870	18,162
Total value of output .. £'000	29,675	30,262	35,176	34,931	37,174
Value of land and buildings .. £'000	6,620	6,666	6,857	8,219	9,587
Value of plant and machinery .. £'000	4,537	4,418	4,725	5,245	5,442
Horse-power of engines ordinarily in use h.p.	39,652	39,201	42,922	39,648	41,339

16. **Wireless and Amplifying Apparatus.**—This industry is confined mainly to New South Wales, Victoria and South Australia.

WIRELESS AND AMPLIFYING APPARATUS: AUSTRALIA

Particulars	1957-58	1958-59	1959-60	1960-61	1961-62
Number of factories	211	257	289	301	327
Number of persons employed	16,002	16,482	19,559	17,273	14,707
Salaries and wages paid	£'000 13,264	14,264	17,644	17,092	14,602
Value of power, fuel, etc., used	£'000 479	550	621	648	585
Value of materials used	£'000 36,756	39,255	50,129	40,805	35,995
Value of production	£'000 20,725	23,431	30,304	24,958	23,587
Total value of output	£'000 57,960	63,236	81,054	66,411	60,167
Value of land and buildings	£'000 6,374	7,897	8,941	10,479	11,564
Value of plant and machinery	£'000 4,250	5,018	5,744	6,468	6,446
Horse-power of engines ordinarily in use h.p.	13,506	12,952	14,302	14,856	15,353

17. **Cotton.**—(i) *General.* Cotton has been grown in Australia since 1860, but never on a very large scale, and production has shown marked fluctuations over the long term. The growing of cotton, which is confined mainly to Queensland, is treated in some detail in Chapter XXIII. Rural Industry. The ginning and marketing of cotton is controlled by the Queensland Cotton Board which 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 1962-63) from the United States of America, Mexico, Brazil and Columbia.

(ii) *Spinning and Weaving.* 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 1957-58 to 1961-62.

COTTON SPINNING AND WEAVING: AUSTRALIA

Particulars	1957-58	1958-59	1959-60	1960-61	1961-62
Number of factories	97	97	92	88	88
Number of persons employed	9,879	9,770	9,780	9,121	8,980
Salaries and wages paid	£'000 8,268	8,116	8,853	8,122	8,245
Value of power, fuel, etc., used	£'000 958	988	997	958	1,033
Value of materials used	£'000 24,025	19,403	20,631	18,336	19,161
Value of production	£'000 15,622	14,751	16,224	15,169	14,827
Total value of output	£'000 40,605	35,142	37,852	34,463	35,021
Value of land and buildings	£'000 7,179	10,625	9,706	10,392	12,909
Value of plant and machinery	£'000 6,702	9,949	9,414	10,105	10,805
Horse-power of engines ordinarily in use h.p.	35,880	38,779	37,240	36,193	40,592

18. **Wool Carding, Spinning and Weaving.**—Details for each State for 1961-62 and for Australia for a series of years are shown in the following table.

WOOL CARDING, SPINNING AND WEAVING
1961-62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	39	79	4	5	3	4	134
Number of persons employed	5,305	10,441	960	(a)	(a)	2,280	20,102
Salaries and wages paid	£'000 4,688	8,962	671	(a)	(a)	1,897	17,081
Value of power, fuel, etc., used	£'000 409	719	52	(a)	(a)	145	1,456
Value of materials used	£'000 10,671	23,785	1,385	(a)	(a)	4,024	43,122
Value of production	£'000 8,147	12,930	931	(a)	(a)	3,170	26,594
Total value of output	£'000 19,227	37,484	2,368	(a)	(a)	7,339	71,172
Value of land and buildings	£'000 3,135	6,410	291	(a)	(a)	639	10,911
Value of plant and machinery	£'000 4,169	6,802	306	(a)	(a)	1,417	13,235
Horse-power of engines ordinarily in use	h.p. 16,922	40,236	3,290	(a)	(a)	6,771	70,610

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

WOOL CARDING, SPINNING AND WEAVING—*continued*

AUSTRALIA

Particulars	1957-58	1958-59	1959-60	1960-61	1961-62
Number of factories	146	141	134	135	134
Number of persons employed	22,386	20,809	22,433	21,400	20,102
Salaries and wages paid £'000	16,380	15,714	18,052	17,372	17,081
Value of power, fuel, etc., used £'000	1,463	1,445	1,563	1,484	1,456
Value of materials used £'000	46,012	37,252	47,440	40,629	43,122
Value of production £'000	25,737	26,458	29,131	28,119	26,594
Total value of output £'000	73,212	65,155	78,134	70,232	71,172
Value of land and buildings £'000	9,364	10,519	10,625	10,964	10,911
Value of plant and machinery £'000	11,641	12,082	12,599	12,552	13,235
Horse-power of engines ordinarily in use h.p.	70,433	72,301	70,811	69,428	70,610

19. Hosiery and Other Knitted Goods.—Details for each State for 1961-62 and for Australia for a series of years are shown in the following table.

HOSIERY AND OTHER KNITTED GOODS
1961-62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	174	462	4	9	132	3	658
Number of persons employed	6,053	16,486	529	126	132	77	23,403
Salaries and wages paid £'000	4,750	13,142	383	70	92	58	18,495
Value of power, fuel, etc., used £'000	195	578	12	3	4	2	794
Value of materials used £'000	11,094	29,376	813	218	189	83	41,773
Value of production £'000	9,350	25,633	563	164	130	108	35,948
Total value of output £'000	20,639	55,587	1,388	385	323	193	78,515
Value of land and buildings £'000	3,639	11,269	195	43	35	48	15,229
Value of plant and machinery £'000	2,500	7,826	173	39	43	29	10,610
Horse-power of engines ordinarily in use h.p.	5,199	17,003	581	174	172	121	23,250

AUSTRALIA

Particulars	1957-58	1958-59	1959-60	1960-61	1961-62
Number of factories	657	663	701	687	658
Number of persons employed	22,939	22,851	24,414	24,741	23,403
Salaries and wages paid £'000	16,124	16,421	18,791	19,101	18,495
Value of power, fuel, etc., used £'000	770	787	798	810	794
Value of materials used £'000	38,002	34,701	41,479	42,228	41,773
Value of production £'000	28,615	31,325	34,629	35,521	35,948
Total value of output £'000	67,387	66,813	76,906	78,559	78,515
Value of land and buildings £'000	10,910	12,144	12,962	14,606	15,229
Value of plant and machinery £'000	8,539	9,353	9,171	9,967	10,610
Horse-power of engines ordinarily in use h.p.	21,858	23,290	22,019	22,738	23,250

20. Rope and Cordage.—Particulars of factories manufacturing rope and cordage are shown in the following table for Australia for each year, 1957-58 to 1961-62. Most of the production takes place in New South Wales and Victoria, although there were factories in 1961-62 in all States except Tasmania.

ROPE AND CORDAGE: AUSTRALIA

Particulars	1957-58	1958-59	1959-60	1960-61	1961-62
Number of factories	28	29	28	27	26
Number of persons employed	2,192	2,239	2,387	2,335	2,146
Salaries and wages paid £'000	1,830	1,995	2,285	2,272	2,189
Value of power, fuel, etc., used £'000	120	133	158	171	173
Value of materials used £'000	3,177	3,790	4,167	5,121	4,240
Value of production £'000	3,256	4,065	4,407	4,257	4,122
Total value of output £'000	6,533	7,988	8,732	9,549	8,535
Value of land and buildings £'000	2,405	2,447	2,625	2,629	2,701
Value of plant and machinery £'000	1,369	1,441	1,558	1,694	1,718
Horse-power of engines ordinarily in use h.p.	13,530	13,935	14,057	15,015	15,153

21. Tanning, Currying and Leather Dressing.—The following table shows particulars of the tanning industry in each State for the year 1961-62 and for Australia for a series of years.

TANNING, CURRYING AND LEATHER DRESSING

1961-62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	53	30	12	8	4	1	108
Number of persons employed ..	1,764	1,449	587	229	(a)	(a)	4,159
Salaries and wages paid .. £'000	2,047	1,556	613	267	(a)	(a)	4,612
Value of power, fuel, etc., used .. £'000	208	180	61	28	(a)	(a)	488
Value of materials used .. £'000	6,306	4,516	2,290	791	(a)	(a)	14,281
Value of production .. £'000	3,248	2,386	1,111	433	(a)	(a)	7,392
Total value of output .. £'000	9,762	7,082	3,462	1,252	(a)	(a)	22,161
Value of land and buildings .. £'000	1,575	1,645	135	111	(a)	(a)	3,537
Value of plant and machinery .. £'000	918	808	276	168	(a)	(a)	2,241
Horse-power of engines ordinarily in use h.p.	12,843	10,531	4,729	1,944	(a)	(a)	31,278

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

AUSTRALIA

Particulars	1957-58	1958-59	1959-60	1960-61	1961-62
Number of factories	124	123	118	112	108
Number of persons employed ..	4,708	4,617	4,435	4,245	4,159
Salaries and wages paid .. £'000	4,413	4,510	4,612	4,575	4,612
Value of power, fuel, etc., used .. £'000	470	490	484	484	488
Value of materials used .. £'000	11,938	12,635	15,766	14,421	14,281
Value of production .. £'000	6,214	6,919	6,967	6,748	7,392
Total value of output .. £'000	18,622	20,044	23,217	21,653	22,161
Value of land and buildings .. £'000	2,341	2,535	3,399	3,418	3,537
Value of plant and machinery .. £'000	2,154	2,223	2,152	2,230	2,241
Horse-power of engines ordinarily in use h.p.	32,378	30,749	33,516	31,516	31,278

22. Leather Goods (including Saddlery and Belting).—Particulars of the leather goods industry in each State for the year 1961-62 and for Australia for a series of years are shown in the following table.

LEATHER GOODS (INCLUDING SADDLERY AND BELTING)

1961-62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	196	132	23	23	14	4	392
Number of persons employed ..	2,274	1,395	312	185	135	14	4,315
Salaries and wages paid .. £'000	1,779	1,060	222	121	86	8	3,276
Value of power, fuel, etc., used .. £'000	31	27	3	3	2	(a)	66
Value of materials used .. £'000	3,298	2,000	341	221	160	12	6,032
Value of production .. £'000	2,922	1,994	390	201	152	20	5,679
Total value of output .. £'000	6,251	4,021	734	425	314	32	11,777
Value of land and buildings .. £'000	1,633	1,171	128	113	91	6	3,192
Value of plant and machinery .. £'000	382	368	42	37	16	1	846
Horse-power of engines ordinarily in use h.p.	1,258	1,320	180	215	166	16	3,155

(a) Under £500.

AUSTRALIA

Particulars	1957-58	1958-59	1959-60	1960-61	1961-62
Number of factories	450	430	433	418	392
Number of persons employed ..	4,722	4,727	4,873	4,658	4,315
Salaries and wages paid .. £'000	3,051	3,140	3,471	3,419	3,276
Value of power, fuel, etc., used .. £'000	55	59	66	66	66
Value of materials used .. £'000	5,212	5,670	6,607	6,504	6,032
Value of production .. £'000	5,099	5,280	6,063	5,878	5,679
Total value of output .. £'000	10,366	11,009	12,736	12,448	11,777
Value of land and buildings .. £'000	2,178	2,351	2,821	3,084	3,192
Value of plant and machinery .. £'000	572	607	647	834	846
Horse-power of engines ordinarily in use h.p.	3,091	2,738	3,769	3,678	3,155

23. Tailoring and Ready-made Clothing.—Statistics showing the distribution of this industry among the States in 1961–62 and for Australia for a series of years are shown in the following table.

TAILORING AND READY-MADE CLOTHING

1961–62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	957	545	105	105	111	16	1,839
Number of persons employed ..	18,337	10,411	1,896	1,095	597	160	32,496
Salaries and wages paid .. £'000	13,052	7,916	1,026	661	300	95	23,050
Value of power, fuel, etc., used .. £'000	276	168	24	21	9	2	500
Value of materials used .. £'000	25,218	13,309	1,294	731	464	69	41,085
Value of production .. £'000	21,560	12,730	1,622	1,006	535	132	37,585
Total value of output .. £'000	47,054	26,207	2,940	1,758	1,008	203	79,170
Value of land and buildings .. £'000	8,510	5,778	603	808	392	98	16,189
Value of plant and machinery .. £'000	1,824	1,305	145	116	49	12	3,451
Horse-power of engines ordinarily in use h.p.	7,156	4,027	705	451	230	49	12,618

AUSTRALIA

Particulars	1957–58	1958–59	1959–60	1960–61	1961–62
Number of factories	1,914	1,841	1,860	1,871	1,839
Number of persons employed ..	31,457	31,406	33,170	33,890	32,496
Salaries and wages paid .. £'000	19,337	19,533	22,133	23,542	23,050
Value of power, fuel, etc., used .. £'000	422	440	467	495	500
Value of materials used .. £'000	36,680	36,253	40,791	42,674	41,085
Value of production .. £'000	31,117	31,371	35,166	36,970	37,585
Total value of output .. £'000	68,219	68,064	76,424	80,139	79,170
Value of land and buildings .. £'000	11,014	11,948	13,287	15,383	16,189
Value of plant and machinery .. £'000	2,913	3,063	3,147	3,446	3,451
Horse-power of engines ordinarily in use h.p.	9,671	10,143	10,899	11,820	12,618

24. Dressmaking and Millinery Establishments.—Particulars of dressmaking and millinery establishments in the States for 1961–62 and in Australia for the years 1957–58 to 1961–62 are shown in the following table.

DRESSMAKING AND MILLINERY

1961–62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	385	552	72	103	67	4	1,183
Number of persons employed ..	2,511	8,896	1,503	878	636	42	14,466
Salaries and wages paid .. £'000	1,601	6,233	826	452	335	24	9,471
Value of power, fuel, etc., used .. £'000	39	122	16	11	7	1	196
Value of materials used .. £'000	2,216	7,826	1,102	486	372	36	12,038
Value of production .. £'000	2,836	9,800	1,369	633	496	38	15,172
Total value of output .. £'000	5,091	17,748	2,487	1,130	875	75	27,406
Value of land and buildings .. £'000	1,828	5,570	541	433	278	11	8,661
Value of plant and machinery .. £'000	185	728	77	49	40	4	1,083
Horse-power of engines ordinarily in use h.p.	736	2,725	450	355	266	11	4,543

AUSTRALIA

Particulars	1957–58	1958–59	1959–60	1960–61	1961–62
Number of factories	1,295	1,249	1,228	1,194	1,183
Number of persons employed ..	15,668	15,048	15,021	14,403	14,466
Salaries and wages paid .. £'000	8,859	8,599	9,205	9,191	9,471
Value of power, fuel, etc., used .. £'000	184	184	190	190	196
Value of materials used .. £'000	11,999	11,272	11,758	11,666	12,038
Value of production .. £'000	14,220	13,766	14,764	15,063	15,172
Total value of output .. £'000	26,403	25,222	26,712	26,919	27,406
Value of land and buildings .. £'000	6,693	6,937	7,623	8,277	8,661
Value of plant and machinery .. £'000	1,246	1,171	1,114	1,085	1,083
Horse-power of engines ordinarily in use h.p.	4,558	5,159	4,880	4,398	4,543

25. Shirts, Collars and Underclothing.—Particulars of this industry are shown below for each State for 1961-62 and for Australia for a series of years.

SHIRTS, COLLARS AND UNDERCLOTHING

1961-62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	148	139	21	30	14	1	353
Number of persons employed	5,049	5,192	996	508	(a)	(a)	12,276
Salaries and wages paid .. £'000	3,474	3,686	543	256	(a)	(a)	8,242
Value of power, fuel, etc., used £'000	74	64	8	5	(a)	(a)	156
Value of materials used .. £'000	7,789	6,766	462	271	(a)	(a)	15,638
Value of production .. £'000	5,185	6,603	702	377	(a)	(a)	13,276
Total value of output .. £'000	13,048	13,433	1,172	653	(a)	(a)	29,070
Value of land and buildings £'000	2,092	1,962	177	182	(a)	(a)	4,567
Value of plant and machinery £'000	604	564	80	51	(a)	(a)	1,344
Horse-power of engines ordinarily in use h.p.	2,024	2,746	299	263	(a)	(a)	5,529

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

AUSTRALIA

Particulars	1957-58	1958-59	1959-60	1960-61	1961-62
Number of factories	384	394	376	368	353
Number of persons employed	13,038	13,589	12,891	12,864	12,276
Salaries and wages paid .. £'000	7,718	8,223	8,326	8,424	8,242
Value of power, fuel, etc., used .. £'000	134	147	137	148	156
Value of materials used .. £'000	16,595	16,410	15,823	15,795	15,638
Value of production £'000	11,945	13,271	13,572	13,360	13,276
Total value of output £'000	28,674	29,828	29,532	29,303	29,070
Value of land and buildings .. £'000	3,587	3,924	4,050	4,445	4,567
Value of plant and machinery .. £'000	1,233	1,317	1,206	1,334	1,344
Horse-power of engines ordinarily in use h.p.	5,064	5,357	5,090	5,454	5,529

26. Boots and Shoes.—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. 43, page 207.

BOOTS AND SHOES

1961-62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.(a)	Aust.
Number of factories	150	201	24	15	13	44	447
Number of persons employed	5,908	11,510	934	1,074	502	156	20,084
Salaries and wages paid .. £'000	4,899	9,694	712	968	352	93	16,718
Value of power, fuel, etc., used £'000	99	190	11	16	8	3	327
Value of materials used .. £'000	8,322	18,309	1,056	1,588	564	157	29,996
Value of production £'000	7,795	15,944	975	1,438	510	184	26,846
Total value of output £'000	16,216	34,443	2,042	3,942	1,082	344	57,169
Value of land and buildings £'000	2,043	3,840	138	367	158	167	6,713
Value of plant and machinery £'000	886	3,579	208	494	173	44	5,384
Horse-power of engines ordinarily in use h.p.	4,452	7,656	849	1,000	668	180	14,805

(a) Includes details of boot and shoe repairing.

BOOTS AND SHOES--*continued*

AUSTRALIA

Particulars	1957-58	1958-59	1959-60	1960-61	1961-62
Number of factories	486	482	455	460	447
Number of persons employed	20,839	20,449	20,201	20,782	20,084
Salaries and wages paid £'000	15,090	15,148	16,101	16,913	16,718
Value of power, fuel, etc., used £'000	266	275	289	314	327
Value of materials used £'000	22,854	25,222	28,138	29,925	29,996
Value of production £'000	22,019	22,530	24,059	26,564	26,846
Total value of output £'000	45,139	48,027	52,486	56,803	57,169
Value of land and buildings £'000	4,567	5,254	5,551	6,158	6,713
Value of plant and machinery £'000	3,979	4,307	4,651	5,359	5,384
Horse-power of engines ordinarily in use h.p.	16,663	17,572	17,674	14,599	14,805

27. *Flour-milling.*—The following table shows particulars of the flour-milling industry in each State for the year 1961-62 and for Australia for a series of years.

FLOUR-MILLING

1961-62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	39	32	12	22	16	4	125
Number of persons employed	1,556	1,306	551	484	379	129	4,405
Salaries and wages paid £'000	1,917	1,426	572	536	377	136	4,964
Value of power, fuel, etc., used £'000	389	250	92	109	91	20	951
Value of materials used £'000	22,715	19,596	6,238	6,703	5,331	1,348	61,931
Value of production £'000	4,849	3,535	1,217	1,058	802	267	11,728
Total value of output £'000	27,953	23,381	7,547	7,870	6,224	1,635	74,610
Value of land and buildings £'000	2,705	2,149	806	607	664	183	7,114
Value of plant and machinery £'000	1,941	1,599	714	556	475	176	5,461
Horse-power of engines ordinarily in use h.p.	17,384	15,468	5,168	4,197	5,049	1,318	48,584

AUSTRALIA

Particulars	1957-58	1958-59	1959-60	1960-61	1961-62
Number of factories	142	135	135	132	125
Number of persons employed	4,284	4,301	4,410	4,463	4,405
Salaries and wages paid £'000	4,190	4,281	4,657	4,917	4,964
Value of power, fuel, etc., used £'000	827	827	928	944	951
Value of materials used £'000	53,659	51,806	57,955	62,826	61,931
Value of production £'000	9,934	9,816	11,100	11,837	11,728
Total value of output £'000	64,420	62,449	69,983	75,607	74,610
Value of land and buildings £'000	6,322	6,711	6,982	7,359	7,114
Value of plant and machinery £'000	5,962	5,902	6,175	5,684	5,461
Horse-power of engines ordinarily in use h.p.	48,449	48,684	49,253	50,265	48,584

28. *Bakeries.*—Information regarding establishments in which the manufacture of bread, cakes, etc., was carried on is given in the table below. Since the details refer only to establishments coming within the definition of a factory as explained at the beginning of this chapter, the table does not give complete details of the industry, as a large number of bakeries, etc. not coming within the definition are excluded.

BAKERIES (INCLUDING CAKES AND PASTRY)

1961-62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	1,519	1,117	497	296	285	141	3,855
Number of persons employed	8,390	6,080	2,624	1,777	1,102	593	20,566
Salaries and wages paid .. £'000	6,935	4,739	1,716	1,442	712	406	15,950
Value of power, fuel, etc., used £'000	1,156	766	305	218	148	76	2,669
Value of materials used .. £'000	20,182	14,105	5,959	4,528	2,680	1,423	48,877
Value of production .. £'000	17,804	10,303	4,225	3,210	1,959	1,031	38,532
Total value of output .. £'000	39,142	25,174	10,489	7,956	4,787	2,530	90,078
Value of land and buildings £'000	12,009	9,053	2,015	2,357	1,209	895	27,538
Value of plant and machinery £'000	7,228	5,049	1,653	1,568	938	456	16,892
Horse-power of engines ordinarily in use h.p.	14,441	9,968	3,917	4,240	2,376	992	35,934

AUSTRALIA

Particulars	1957-58 (a)	1958-59 (a)	1959-60 (a)	1960-61 (a)	1961-62
Number of factories	3,986	4,150	3,999	3,895	3,855
Number of persons employed	20,323	20,994	21,253	21,743	20,566
Salaries and wages paid .. £'000	13,110	13,729	14,936	16,446	15,950
Value of power, fuel, etc., used .. £'000	2,440	2,546	2,624	2,737	2,669
Value of materials used .. £'000	43,476	45,612	48,387	51,507	48,877
Value of production .. £'000	29,816	32,182	35,395	38,309	38,532
Total value of output .. £'000	75,732	80,340	86,406	92,553	90,078
Value of land and buildings .. £'000	20,205	22,220	23,950	26,280	27,538
Value of plant and machinery .. £'000	11,797	13,551	15,122	17,601	16,892
Horse-power of engines ordinarily in use h.p.	32,162	33,716	34,953	40,899	35,934

(a) Includes confectionery in Tasmania.

29. Sugar-mills and Sugar Refineries.—Sugar-cane is grown in New South Wales and Queensland, and particulars of area, yield, etc., are given in detail in the chapter Rural Industry. The products of the sugar-mill are raw sugar and molasses, the former being sent to the refineries in different parts of Australia for further treatment.

The following table shows the number of sugar-mills and the number of persons employed therein in New South Wales and Queensland for the years 1957-58 to 1961-62.

SUGAR-MILLS

Particulars	1957-58	1958-59	1959-60	1960-61	1961-62
NEW SOUTH WALES					
Number of factories	3	3	3	3	3
Number of persons employed	170	254	243	200	219
QUEENSLAND					
Number of factories	31	31	31	31	31
Number of persons employed	6,547	6,621	6,197	6,014	6,053

In 1961-62, there were two sugar refineries in Queensland and one each in New South Wales, Victoria, South Australia and Western Australia.

30. Confectionery.—Particulars for 1961–62 for each State and for Australia for a series of years are shown hereunder.

CONFECTIONERY
1961–62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	78	76	17	16	6	4	197
Number of persons employed	2,830	3,134	170	342	259	1,243	7,978
Salaries and wages paid £'000	2,583	2,742	100	225	196	1,202	7,138
Value of power, fuel, etc., used £'000	279	281	8	26	20	111	725
Value of materials used £'000	8,558	7,833	385	594	584	4,524	22,478
Value of production £'000	6,860	4,572	203	412	364	2,419	14,830
Total value of output £'000	15,697	12,686	596	1,032	968	7,054	38,033
Value of land and buildings £'000	3,339	2,541	127	363	98	1,166	7,634
Value of plant and machinery £'000	2,458	2,851	65	165	94	2,002	7,635
Horse-power of engines ordinarily in use h.p.	14,651	15,708	452	1,499	529	6,109	38,948

AUSTRALIA

Particulars	1957–58 (a)	1958–59 (a)	1959–60 (a)	1960–61 (a)	1961–62
Number of factories	217	209	214	209	197
Number of persons employed	6,789	6,704	6,765	6,890	7,978
Salaries and wages paid £'000	4,982	5,037	5,493	5,666	7,138
Value of power, fuel, etc., used £'000	529	536	555	591	725
Value of materials used £'000	16,052	16,842	17,674	17,883	22,478
Value of production £'000	9,771	10,586	11,139	12,391	14,830
Total value of output £'000	26,352	27,964	29,368	30,865	38,033
Value of land and buildings £'000	4,351	4,812	5,309	5,590	7,634
Value of plant and machinery £'000	3,891	4,572	4,745	5,428	7,635
Horse-power of engines ordinarily in use h.p.	29,256	30,504	30,571	32,006	38,948

(a) Excludes Tasmania.

31. Jam, Fruit and Vegetable Canning, Pickles, Sauces, Vinegar.—The following table shows particulars of factories included in this class for each State for 1961–62 and for Australia for a series of years.

JAM, FRUIT AND VEGETABLE CANNING, PICKLES, SAUCES, VINEGAR
1961–62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	50	55	18	21	9	19	172
Number of persons employed	2,825	5,314	1,491	1,043	158	1,261	12,092
Salaries and wages paid £'000	2,779	5,490	1,326	874	120	1,237	11,826
Value of power, fuel, etc., used £'000	325	569	91	78	9	129	1,201
Value of materials used £'000	11,722	24,507	7,000	3,526	486	3,576	50,817
Value of production £'000	7,137	13,767	2,460	2,059	267	2,212	27,902
Total value of output £'000	19,184	38,843	9,551	5,663	762	5,917	79,920
Value of land and buildings £'000	2,598	9,140	660	694	156	1,171	14,419
Value of plant and machinery £'000	2,405	7,003	512	1,038	111	1,167	12,236
Horse-power of engines ordinarily in use h.p.	11,309	22,197	2,931	2,762	437	6,216	45,852

AUSTRALIA

Particulars	1957–58	1958–59	1959–60	1960–61	1961–62
Number of factories	187	180	177	172	172
Number of persons employed	11,407	10,762	10,793	10,865	12,092
Salaries and wages paid £'000	9,752	9,186	9,894	10,077	11,826
Value of power, fuel, etc., used £'000	325	569	92	1,037	1,201
Value of materials used £'000	41,159	38,358	39,953	41,867	50,817
Value of production £'000	19,753	17,458	20,254	21,076	27,902
Total value of output £'000	61,890	56,765	61,199	63,980	79,920
Value of land and buildings £'000	10,621	11,630	12,095	13,149	14,419
Value of plant and machinery £'000	9,275	9,573	10,162	11,211	12,236
Horse-power of engines ordinarily in use h.p.	55,824	48,539	42,250	44,819	45,852

32. Bacon-curing.—The table hereunder shows particulars of factories engaged in bacon-curing in each State for 1961–62 and for Australia for a series of years.

BACON-CURING
1961–62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	28	16	9	16	4	10	83
Number of persons employed	950	776	1,736	513	339	168	4,482
Salaries and wages paid £'000	1,057	804	1,519	546	319	171	4,416
Value of power, fuel, etc., used £'000	114	92	144	78	41	24	493
Value of materials used £'000	6,016	5,171	8,870	2,846	3,029	1,163	27,095
Value of production £'000	2,125	1,435	4,036	890	634	405	9,525
Total value of output £'000	8,255	6,698	13,050	3,814	3,704	1,592	37,113
Value of land and buildings £'000	900	773	1,360	527	160	303	4,023
Value of plant and machinery £'000	638	490	803	331	136	81	2,479
Horse-power of engines ordinarily in use h.p.	3,296	3,097	6,505	2,594	1,303	742	17,537

AUSTRALIA

Particulars	1957–58	1958–59	1959–60	1960–61	1961–62
Number of factories	80	80	83	83	83
Number of persons employed	3,745	4,162	4,068	4,215	4,482
Salaries and wages paid £'000	3,311	3,649	3,853	4,135	4,416
Value of power, fuel, etc., used £'000	403	431	432	440	493
Value of materials used £'000	22,147	25,037	28,218	29,045	27,095
Value of production £'000	6,798	6,473	6,779	7,962	9,525
Total value of output £'000	29,348	31,941	35,429	37,447	37,113
Value of land and buildings £'000	2,667	3,104	3,388	3,963	4,023
Value of plant and machinery £'000	1,654	1,806	2,050	2,244	2,479
Horse-power of engines ordinarily in use h.p.	14,747	14,108	15,670	16,044	17,537

Bacon and ham and other pig products are dealt with more fully in Chapter XXIII. Rural Industry.

33. Butter, Cheese and Condensed and Processed Milk.—The following table shows particulars of butter, cheese and condensed and dried milk factories in each State for 1961–62 and for Australia for a series of years.

BUTTER, CHEESE AND CONDENSED AND PROCESSED MILK
1961–62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	72	127	71	44	18	21	353
Number of persons employed	2,562	5,681	1,675	662	339	398	11,317
Salaries and wages paid £'000	2,666	6,513	1,612	699	308	440	12,238
Value of power, fuel, etc., used £'000	749	1,568	339	119	74	83	2,932
Value of materials used £'000	18,992	57,348	20,877	5,929	3,445	5,333	111,924
Value of production £'000	4,988	14,134	3,398	1,435	588	1,250	25,793
Total value of output £'000	24,729	73,050	24,614	7,483	4,107	6,666	140,649
Value of land and buildings £'000	3,332	8,183	2,087	725	511	439	15,277
Value of plant and machinery £'000	3,426	9,781	2,705	711	596	503	17,722
Horse-power of engines ordinarily in use h.p.	31,743	45,501	24,886	5,554	4,012	2,947	114,643

AUSTRALIA

Particulars	1957–58	1958–59	1959–60	1960–61	1961–62
Number of factories	366	363	363	361	353
Number of persons employed	10,870	10,897	11,139	11,072	11,317
Salaries and wages paid £'000	9,995	10,270	11,042	11,524	12,238
Value of power, fuel, etc., used £'000	2,692	2,816	2,920	2,825	2,932
Value of materials used £'000	94,566	101,929	112,307	106,607	111,924
Value of production £'000	19,561	21,446	24,816	24,487	25,793
Total value of output £'000	116,819	126,191	140,043	133,919	140,649
Value of land and buildings £'000	12,558	13,518	14,022	14,702	15,277
Value of plant and machinery £'000	15,254	15,819	16,169	17,046	17,722
Horse-power of engines ordinarily in use h.p.	109,647	107,880	111,149	114,392	114,643

The butter, cheese and condensed milk industries are dealt with more fully in Chapter XXIII. Rural Industry.

34. **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. In recent years, there has been considerable expansion in the canning of meat and fish.

MEAT AND FISH PRESERVING

1961-62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	10	13	32	18	67	9	149
Number of persons employed ..	479	643	6,095	299	1,816	159	9,491
Salaries and wages paid .. £'000	456	711	7,020	221	1,958	158	10,524
Value of power, fuel, etc., used .. £'000	73	130	861	35	197	16	1,312
Value of materials used .. £'000	2,248	4,011	49,622	1,872	8,359	699	66,811
Value of production .. £'000	1,050	2,024	11,749	496	3,254	270	18,843
Total value of output .. £'000	3,371	6,165	62,232	2,403	11,810	985	86,966
Value of land and buildings £'000	453	1,646	4,771	717	2,695	148	10,430
Value of plant and machinery £'000	443	1,181	3,628	174	1,531	124	7,081
Horse-power of engines ordinarily in use h.p.	2,655	3,378	30,994	795	10,862	569	49,253

AUSTRALIA

Particulars	1957-58	1958-59	1959-60	1960-61	1961-62
Number of factories	114	115	128	143	149
Number of persons employed ..	8,878	10,142	9,326	9,031	9,491
Salaries and wages paid .. £'000	8,690	10,699	9,914	9,319	10,524
Value of power, fuel, etc., used .. £'000	1,128	1,292	1,244	1,199	1,312
Value of materials used .. £'000	45,695	61,816	65,116	62,686	66,811
Value of production .. £'000	13,723	15,354	14,195	15,386	18,843
Total value of output .. £'000	60,546	78,462	80,555	79,271	86,966
Value of land and buildings .. £'000	6,710	7,459	8,617	9,347	10,430
Value of plant and machinery .. £'000	4,594	5,261	5,579	6,756	7,081
Horse-power of engines ordinarily in use h.p.	36,956	38,994	39,390	44,731	49,253

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. Rural Industry.

35. **Breweries.**—The following table gives particulars of breweries for Australia for each of the years 1957-58 to 1961-62. Since a separate return for each branch of their activities is not available from all breweries, the figures may 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

AUSTRALIA

Particulars	1957-58	1958-59	1959-60	1960-61	1961-62
Number of factories	26	27	25	25	25
Number of persons employed ..	5,909	5,830	5,701	5,626	5,512
Salaries and wages paid .. £'000	6,228	6,232	6,438	6,654	6,878
Value of power, fuel, etc., used .. £'000	1,479	1,488	1,491	1,494	1,531
Value of materials used .. £'000	22,146	22,416	22,731	24,303	25,748
Value of production .. £'000	17,271	16,964	18,620	19,789	21,556
Total value of output(a) .. £'000	40,896	40,868	42,842	45,586	48,835
Value of land and buildings .. £'000	11,797	12,716	12,924	13,003	13,574
Value of plant and machinery .. £'000	15,510	15,727	15,426	14,848	15,625
Horse-power of engines ordinarily in use h.p.	44,869	46,525	48,396	48,490	50,083

(a) Excludes Excise Duty.

36. **Aerated Waters and Cordials.** The following table shows particulars of aerated water and cordial factories in each State for the year 1961-62 and for Australia for a series of years.

AERATED WATERS AND CORDIALS

1961-62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	183	97	152	49	41	13	535
Number of persons employed	1,821	1,132	893	617	311	186	4,960
Salaries and wages paid £'000	1,668	1,068	604	549	260	181	4,330
Value of power, fuel, etc., used £'000	152	98	66	40	26	22	404
Value of materials used £'000	5,005	3,055	1,822	1,445	870	574	12,771
Value of production £'000	4,687	3,165	1,941	1,147	609	444	11,993
Total value of output £'000	9,844	6,318	3,829	2,632	1,505	1,040	25,168
Value of land and buildings £'000	3,005	2,452	873	943	352	210	7,835
Value of plant and machinery £'000	1,926	1,727	683	758	344	263	5,701
Horse-power of engines ordinarily in use h.p.	6,484	2,980	2,605	2,428	1,290	563	16,350

AUSTRALIA

Particulars	1957-58	1958-59	1959-60	1960-61	1961-62
Number of factories	562	559	552	548	535
Number of persons employed	4,954	4,877	5,021	5,275	4,960
Salaries and wages paid £'000	3,557	3,722	4,102	4,458	4,330
Value of power, fuel, etc., used £'000	351	367	406	410	404
Value of materials used £'000	10,503	11,328	12,765	13,400	12,771
Value of production £'000	9,365	10,024	11,355	11,658	11,993
Total value of output £'000	20,219	21,719	24,526	25,468	25,168
Value of land and buildings £'000	4,851	5,359	6,232	7,488	7,835
Value of plant and machinery £'000	3,601	3,874	4,516	5,162	5,701
Horse-power of engines ordinarily in use h.p.	14,947	14,988	15,799	16,363	16,350

37. **Wineries and Distilleries.**—The following table shows particulars of the operations of Wineries and Distilleries for each State during 1961-62 and for Australia for a series of years.

WINERIES AND DISTILLERIES

1961-62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	27	28	5	70	23	..	153
Number of persons employed	225	319	149	1,348	70	..	2,111
Salaries and wages paid £'000	284	307	167	1,268	42	..	2,068
Value of power, fuel, etc., used £'000	123	57	66	155	4	..	405
Value of materials used £'000	2,177	842	480	6,094	174	..	9,767
Value of production £'000	881	721	388	2,747	127	..	4,864
Total value of output £'000	3,181	1,620	934	8,996	305	..	15,036
Value of land and buildings £'000	537	489	172	1,766	77	..	3,041
Value of plant and machinery £'000	851	494	370	1,550	65	..	3,330
Horse-power of engines ordinarily in use h.p.	2,154	2,159	780	14,184	399	..	19,676

AUSTRALIA

Particulars	1957-58	1958-59	1959-60	1960-61	1961-62
Number of factories	160	158	165	164	153
Number of persons employed	2,066	2,021	2,058	2,095	2,111
Salaries and wages paid £'000	1,800	1,827	1,890	2,017	2,068
Value of power, fuel, etc., used £'000	426	396	402	383	405
Value of materials used £'000	7,448	7,900	7,987	9,328	9,767
Value of production £'000	4,569	3,889	4,900	4,427	4,864
Total value of output £'000	12,443	12,185	13,289	14,138	15,036
Value of land and buildings £'000	2,458	2,588	2,759	3,081	3,041
Value of plant and machinery £'000	2,339	2,573	2,808	3,015	3,330
Horse-power of engines ordinarily in use h.p.	11,548	10,773	11,604	19,450	19,676

38. *Tobacco, Cigars and Cigarettes.*—Particulars of establishments in which the manufacture of tobacco, cigars or cigarettes was carried on during 1961–62 are shown below for each State and for Australia for a series of years. There were no such factories in South Australia or Tasmania.

TOBACCO, CIGARS AND CIGARETTES
1961–62

Particulars	N.S.W.	Vic.	Q'land	W. Aust.	Aust.
Number of factories	5	7	5	1	18
Number of persons employed	2,601	2,173	(a)	(a)	4,914
Salaries and wages paid £'000	2,839	2,322	(a)	(a)	5,282
Value of power, fuel, etc., used £'000	108	116	(a)	(a)	234
Value of materials used £'000	19,689	18,791	(a)	(a)	38,568
Value of production £'000	9,799	9,358	(a)	(a)	19,491
Total value of output(b) £'000	29,596	28,265	(a)	(a)	58,293
Value of land and buildings £'000	1,130	2,675	(a)	(a)	4,037
Value of plant and machinery £'000	3,164	3,370	(a)	(a)	6,859
Horse-power of engines ordinarily in use h.p.	5,243	5,508	(a)	(a)	11,203

AUSTRALIA

Particulars	1957–58	1958–59	1959–60	1960–61	1961–62
Number of factories	27	22	21	20	18
Number of persons employed	4,754	4,779	5,046	5,178	4,914
Salaries and wages paid £'000	4,203	4,178	4,774	5,232	5,282
Value of power, fuel, etc., used £'000	145	160	176	225	234
Value of materials used £'000	35,408	35,775	36,578	40,716	38,568
Value of production £'000	11,177	13,451	16,889	18,378	19,491
Total value of output(b) £'000	46,730	49,386	53,643	59,319	58,293
Value of land and buildings £'000	2,962	2,700	3,620	3,551	4,037
Value of plant and machinery £'000	4,156	4,178	4,961	6,209	6,859
Horse-power of engines ordinarily in use h.p.	10,586	10,384	10,417	10,342	11,203

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

(b) Excludes Excise Duty.

39. *Sawmills, etc.*—The most important industry in Class X. is sawmilling. Because of difficulties associated with the classifying of sawmills into forest and town mills, they have been combined in the following table, together with plywood and veneer mills. The figures exclude particulars of a small number of itinerant and travelling sawmills.

SAWMILLS AND PLYWOOD AND VENEER MILLS
1961–62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	891	467	594	84	220	329	2,585
Number of persons employed	9,983	6,387	6,994	2,378	3,956	2,684	32,382
Salaries and wages paid £'000	9,422	6,397	5,988	2,153	3,470	2,386	29,816
Value of power, fuel, etc., used £'000	832	500	462	239	320	245	2,598
Value of materials used £'000	25,379	15,590	11,178	7,350	6,209	5,971	71,677
Value of production £'000	17,071	11,005	9,815	4,239	6,871	4,492	53,493
Total value of output £'000	43,282	27,095	21,455	11,828	13,400	10,708	127,768
Value of land and buildings £'000	6,655	4,643	2,410	2,052	1,183	1,071	18,014
Value of plant and machinery £'000	6,351	3,520	3,749	3,150	1,613	1,839	20,222
Horse-power of engines ordinarily in use h.p.	126,501	78,565	95,969	33,322	42,889	39,838	417,084

AUSTRALIA

Particulars	1957–58	1958–59	1959–60	1960–61	1961–62
Number of factories	2,910	2,805	2,791	2,703	2,585
Number of persons employed	35,185	35,891	36,040	34,701	32,382
Salaries and wages paid £'000	27,932	29,478	31,172	31,593	29,816
Value of power, fuel, etc., used £'000	2,143	2,382	2,604	2,621	2,598
Value of materials used £'000	69,644	70,253	76,676	75,056	71,677
Value of production £'000	50,246	53,649	58,412	56,526	53,493
Total value of output £'000	122,033	126,284	137,692	134,203	127,768
Value of land and buildings £'000	13,924	14,545	16,656	18,548	18,014
Value of plant and machinery £'000	17,971	18,737	19,635	20,517	20,222
Horse-power of engines ordinarily in use h.p.	380,203	395,630	407,440	425,280	417,084

40. Cabinet and Furniture Making and Upholstery.—These industries constitute the principal manufactures in Class XI. The following table shows particulars for each State in 1961-62 and for Australia for a series of years.

CABINET AND FURNITURE MAKING AND UPHOLSTERY
1961-62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	555	476	205	172	152	57	1,617
Number of persons employed ..	6,011	4,277	1,884	1,584	1,007	369	15,132
Salaries and wages paid .. £'000	6,150	4,045	1,542	1,310	747	289	14,083
Value of power, fuel, etc., used .. £'000	174	94	40	35	19	6	368
Value of materials used .. £'000	11,896	7,175	3,136	2,351	1,568	429	26,555
Value of production .. £'000	9,852	6,705	2,428	2,252	1,330	481	23,048
Total value of output .. £'000	21,922	13,974	5,604	4,638	2,917	916	49,971
Value of land and buildings .. £'000	5,729	4,098	1,627	1,153	709	307	13,623
Value of plant and machinery .. £'000	1,320	829	387	354	206	62	3,158
Horse-power of engines ordinarily in use h.p.	17,562	11,713	6,144	5,711	3,547	1,323	46,000

AUSTRALIA

Particulars	1957-58	1958-59	1959-60	1960-61	1961-62
Number of factories	1,644	1,629	1,664	1,633	1,617
Number of persons employed ..	15,929	16,012	16,475	15,711	15,132
Salaries and wages paid .. £'000	12,462	12,963	14,187	14,218	14,083
Value of power, fuel, etc., used .. £'000	311	334	346	350	368
Value of materials used .. £'000	20,860	22,222	26,123	25,999	26,555
Value of production .. £'000	20,163	21,228	23,501	23,135	23,048
Total value of output .. £'000	41,334	43,784	49,970	49,484	49,971
Value of land and buildings .. £'000	9,069	10,457	11,618	12,719	13,623
Value of plant and machinery .. £'000	2,515	2,679	2,869	2,964	3,158
Horse-power of engines ordinarily in use h.p.	46,447	46,539	45,955	45,313	46,000

41. Printing Works.—The following table gives particulars of establishments engaged in general printing in each State for 1961-62 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
1961-62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	737	607	121	115	96	30	1,706
Number of persons employed ..	12,521	10,810	2,369	1,962	1,582	692	29,936
Salaries and wages paid .. £'000	13,653	11,306	2,092	1,837	1,348	676	30,912
Value of power, fuel, etc., used .. £'000	431	349	51	48	42	21	942
Value of materials used .. £'000	18,070	13,256	1,972	2,025	1,517	632	37,472
Value of production .. £'000	25,124	20,009	3,390	2,982	2,474	1,088	55,067
Total value of output .. £'000	43,625	33,614	5,413	5,055	4,033	1,741	93,481
Value of land and buildings .. £'000	13,421	11,425	1,141	1,493	1,544	658	29,682
Value of plant and machinery .. £'000	10,723	8,467	1,426	1,617	1,020	456	23,709
Horse-power of engines ordinarily in use h.p.	21,870	18,249	3,133	3,041	2,761	1,075	50,129

AUSTRALIA

Particulars	1957-58	1958-59	1959-60	1960-61	1961-62
Number of factories	1,431	1,518	1,573	1,641	1,706
Number of persons employed ..	25,916	26,827	27,744	29,080	29,936
Salaries and wages paid .. £'000	22,099	23,705	26,711	29,365	30,912
Value of power, fuel, etc., used .. £'000	675	729	797	893	942
Value of materials used .. £'000	29,809	32,420	35,175	38,249	37,472
Value of production .. £'000	38,068	41,036	46,567	51,123	55,067
Total value of output .. £'000	68,552	74,185	82,539	90,265	93,481
Value of land and buildings .. £'000	15,084	19,041	21,599	25,613	29,682
Value of plant and machinery .. £'000	15,705	17,535	19,351	21,889	23,709
Horse-power of engines ordinarily in use h.p.	37,963	40,751	43,561	47,269	50,129

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

NEWSPAPERS AND PERIODICALS

1961-62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	177	128	58	36	17	5	421
Number of persons employed ..	7,149	3,765	2,183	1,182	814	398	15,491
Salaries and wages paid .. £'000	8,700	4,563	2,650	1,467	1,001	493	18,874
Value of power, fuel, etc., used .. £'000	317	162	87	49	49	12	676
Value of materials used .. £'000	11,469	9,144	3,148	2,140	1,505	411	27,817
Value of production .. £'000	16,134	8,135	4,834	2,662	2,099	680	34,544
Total value of output .. £'000	27,920	17,441	8,069	4,851	3,653	1,103	63,037
Value of land and buildings .. £'000	8,547	3,272	1,535	2,112	857	295	16,618
Value of plant and machinery .. £'000	8,420	3,645	1,555	1,329	546	224	15,719
Horse-power of engines ordinarily in use h.p.	18,973	12,152	6,156	4,845	2,605	1,045	45,776

AUSTRALIA

Particulars	1957-58	1958-59	1959-60	1960-61	1961-62
Number of factories	407	423	429	420	421
Number of persons employed ..	14,387	14,878	15,437	15,789	15,491
Salaries and wages paid .. £'000	13,997	15,291	17,056	19,005	18,874
Value of power, fuel, etc., used .. £'000	562	590	615	654	676
Value of materials used .. £'000	25,299	27,746	29,726	30,737	27,817
Value of production .. £'000	25,580	27,738	30,767	33,997	34,544
Total value of output .. £'000	51,441	56,074	61,108	65,388	63,037
Value of land and buildings .. £'000	12,112	13,739	15,193	16,016	16,618
Value of plant and machinery .. £'000	10,833	11,595	13,960	14,416	15,719
Horse-power of engines ordinarily in use h.p.	37,440	37,440	40,116	45,815	45,776

42. 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. The number of factories operating in 1961-62 comprised four in New South Wales, eleven in Victoria, two in Queensland, two in South Australia, one in 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.

Mills producing pulp from eucalypt timber are operating in Victoria and Tasmania, while in South Australia pulp is being produced from locally-grown softwoods.

PAPER MAKING, INCLUDING PULP MILLS: AUSTRALIA

Particulars	1957-58	1958-59	1959-60	1960-61	1961-62
Number of factories	18	18	20	22	23
Number of persons employed ..	8,088	8,406	8,775	8,822	8,147
Salaries and wages paid .. £'000	9,752	10,422	11,980	12,055	11,218
Value of power, fuel, etc., used .. £'000	3,131	3,341	3,906	4,200	4,109
Value of materials used .. £'000	22,903	25,025	26,601	27,924	26,505
Value of production .. £'000	23,910	25,817	28,326	27,658	26,456
Total value of output .. £'000	49,944	54,183	58,833	59,782	57,070
Value of land and buildings .. £'000	12,203	12,317	13,307	13,902	15,904
Value of plant and machinery .. £'000	21,835	22,482	27,018	33,377	33,735
Horse-power of engines ordinarily in use h.p.	174,557	179,364	189,774	216,539	215,927

43. Rubber Goods.—The following table shows particulars of this industry for each State during 1961-62 and for Australia for a series of years. Establishments engaged primarily in the retreading and repairing of tyres are excluded.

RUBBER GOODS

1961-62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	42	48	13	8	3	..	114
Number of persons employed	5,818	6,193	1,131	(a)	(a)	..	13,993
Salaries and wages paid £'000	6,791	6,879	1,020	(a)	(a)	..	15,719
Value of power, fuel, etc., used £'000	937	1,106	125	(a)	(a)	..	2,281
Value of materials used £'000	15,099	17,088	2,426	(a)	(a)	..	35,942
Value of production £'000	8,816	13,639	1,935	(a)	(a)	..	26,223
Total value of output £'000	24,852	31,833	4,486	(a)	(a)	..	64,446
Value of land and buildings £'000	2,995	5,165	620	(a)	(a)	..	9,490
Value of plant and machinery £'000	2,618	6,938	376	(a)	(a)	..	10,307
Horse-power of engines ordinarily in use h.p.	55,361	63,626	9,248	(a)	(a)	..	134,428

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

AUSTRALIA

Particulars	1957-58	1958-59	1959-60	1960-61	1961-62
Number of factories	118	122	118	116	114
Number of persons employed	15,017	15,227	15,620	15,416	13,993
Salaries and wages paid £'000	14,931	15,442	17,142	17,038	15,719
Value of power, fuel, etc., used £'000	2,131	2,205	2,318	2,382	2,281
Value of materials used £'000	36,044	36,339	43,382	42,038	35,942
Value of production £'000	24,782	27,108	26,072	28,026	26,223
Total value of output £'000	62,957	65,652	71,772	72,446	64,446
Value of land and buildings £'000	7,120	7,288	7,585	9,121	9,490
Value of plant and machinery £'000	7,839	7,632	9,543	10,265	10,307
Horse-power of engines ordinarily in use h.p.	120,602	126,901	128,393	131,947	134,428

44. Plastic Moulding and Products.—The following table shows particulars of this industry for each State for the year 1961-62 and for Australia for a series of years.

PLASTIC MOULDING AND PRODUCTS

1961-62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	200	165	14	26	15	1	421
Number of persons employed	4,461	5,415	153	329	(a)	(a)	10,496
Salaries and wages paid £'000	4,615	5,511	125	303	(a)	(a)	10,651
Value of power, fuel, etc., used £'000	436	487	7	28	(a)	(a)	966
Value of materials used £'000	9,410	13,778	228	554	(a)	(a)	24,260
Value of production £'000	9,061	10,901	249	507	(a)	(a)	20,917
Total value of output £'000	18,907	25,166	484	1,089	(a)	(a)	46,143
Value of land and buildings £'000	4,143	5,469	121	200	(a)	(a)	10,056
Value of plant and machinery £'000	4,510	5,645	111	190	(a)	(a)	10,605
Horse-power of engines ordinarily in use h.p.	19,910	25,277	411	1,016	(a)	(a)	47,083

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

AUSTRALIA

Particulars	1957-58	1958-59	1959-60	1960-61	1961-62
Number of factories	327	337	375	398	421
Number of persons employed	8,998	9,480	10,180	10,658	10,496
Salaries and wages paid £'000	7,823	8,774	10,160	10,753	10,651
Value of power, fuel, etc., used £'000	649	759	849	900	966
Value of materials used £'000	18,181	22,272	26,393	24,613	24,260
Value of production £'000	15,242	18,339	19,886	20,395	20,917
Total value of output £'000	34,072	41,370	47,128	45,908	46,143
Value of land and buildings £'000	5,425	6,081	7,806	8,778	10,056
Value of plant and machinery £'000	6,201	7,005	8,009	9,747	10,605
Horse-power of engines ordinarily in use h.p.	27,543	34,384	37,055	41,635	47,083

45. Electric Light and Power Works.—For further information on this subject see Chapter VII. Electric Power Generation and Distribution. Particulars of the industry for each State during the year 1961-62 and for Australia for a series of years are shown below.

ELECTRIC LIGHT AND POWER WORKS

1961-62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	55	41	52	34	89	14	285
Number of persons employed	4,382	3,541	1,648	(a)	1,052	(a)	12,441
Salaries and wages paid .. £'000	5,558	4,791	1,990	(a)	1,316	(a)	15,916
Value of power, fuel, etc., used £'000	14,877	11,903	7,134	(a)	3,622	(a)	41,680
Value of materials used .. £'000	1,952	767	1,466	(a)	402	(a)	5,287
Value of production £'000	38,167	16,508	6,936	(a)	4,467	(a)	76,579
Total value of output £'000	54,996	29,178	15,536	(a)	8,491	(a)	123,546
Value of land and buildings £'000	148,195	23,813	12,216	(a)	4,238	(a)	245,389
Value of plant and machinery £'000	92,143	92,713	42,569	(a)	15,774	(a)	291,537
Generators installed—kilowatt capacity '000 kW	3,166	1,661	797	(a)	374	(a)	7,215

AUSTRALIA

Particulars	1957-58	1958-59	1959-60	1960-61	1961-62
Number of factories	319	305	304	290	285
Number of persons employed	12,833	13,124	12,810	12,298	12,441
Salaries and wages paid £'000	13,467	14,011	14,564	15,018	15,916
Value of power, fuel, etc., used .. £'000	40,261	39,383	40,756	42,367	41,680
Value of materials used £'000	4,740	4,744	4,839	4,976	5,287
Value of production £'000	55,514	63,422	68,582	72,964	76,579
Total value of output £'000	100,515	107,549	114,177	120,307	123,546
Value of land and buildings £'000	104,512	122,460	136,087	139,790	245,389
Value of plant and machinery £'000	213,926	235,844	259,899	278,007	291,537
Generators installed—kilowatt capacity '000 kW	4,881	5,531	5,953	6,665	7,215

(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 152.

46. Gas-works.—The following table shows particulars of gas-works in each State for the year 1961-62 and for Australia for a series of years.

GAS-WORKS

1961-62

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	35	26	16	4	3	2	85
Number of persons employed	1,263	1,459	332	315	(a)	(a)	3,674
Salaries and wages paid £'000	1,639	1,915	338	504	(a)	(a)	4,630
Value of power, fuel, etc., used .. £'000	2,238	562	48	93	(a)	(a)	3,078
Value of materials used £'000	5,727	4,874	1,142	1,788	(a)	(a)	14,180
Value of production £'000	7,093	4,749	1,077	678	(a)	(a)	14,054
Total value of output £'000	15,058	10,185	2,267	2,559	(a)	(a)	31,312
Value of land and buildings £'000	1,961	4,192	804	237	(a)	(a)	7,518
Value of plant and machinery £'000	7,993	14,175	2,062	3,802	(a)	(a)	29,846
Horse-power of engines ordinarily in use h.p.	17,244	21,826	2,937	8,548	(a)	(a)	52,037

AUSTRALIA

Particulars	1957-58	1958-59	1959-60	1960-61	1961-62
Number of factories	88	88	88	84	85
Number of persons employed	3,783	3,917	3,750	3,733	3,674
Salaries and wages paid £'000	4,309	4,298	4,367	4,582	4,630
Value of power, fuel, light, etc., used .. £'000	2,720	2,712	2,942	3,012	3,078
Value of materials used £'000	15,030	14,996	14,738	14,889	14,180
Value of production £'000	10,577	11,239	12,037	13,542	14,054
Total value of output £'000	28,327	28,947	29,717	31,443	31,312
Value of land and buildings £'000	5,710	6,079	5,946	7,235	7,518
Value of plant and machinery £'000	26,823	28,127	29,346	29,347	29,846
Horse-power of engines ordinarily in use h.p.	44,913	46,743	46,058	46,363	52,037

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