

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 48 *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.

In the last ten years the proportion of total factory employment engaged in metropolitan factories has been relatively steady, varying from 73.6% in 1953-54 to 73.8% in 1956-57, 73.9% in 1959-60 and 73.7% in 1962-63.

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.

Products on which bounties were paid in 1962-63 included tractors, certain processed milk products, sulphuric acid, sulphate of ammonia, cellulose acetate flake and rayon yarn.

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.

(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 a 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.

The Australian Design Index provides a detailed, illustrated record of well-designed Australian products. Housed in visual index cabinets, this constantly growing record of good Australian design is freely available for reference. Products accepted for the Design Index carry the "Good Design" label.

The first Australian Design Centre, established at 21 Degraves Street, Melbourne, exhibits products included in the Design Index and presents exhibitions which show the meaning of good design in everyday things. Displays and exhibitions are also arranged in other States.

As part of its programme of assisting industry, the Council conducts lectures dealing with various aspects of design and issues information bulletins. Design counselling is available to manufacturing companies on request, and manufacturers seeking the services of designers are put in touch with qualified people. A Record of Designers has been set up to register information about industrial designers and their work.

The Council is also concerned, in co-operation with education authorities, with raising the standard of training in industrial 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, etc., of their employees, salaries and wages paid, the value of premises and equipment, the horse-power of machinery, the value of raw materials (including containers, tools replaced, etc., the values and in most cases the quantities of fuel used, and quantities and values of principal materials used 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, timber from the sawmills used in furniture factories and in joinery, and synthetic resins from chemical works used to make plastic products. 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 (9 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.
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 fellmongery
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 dried milk factories
Margarine
Meat and fish preserving
Condiments, coffee, spices
Ice and refrigerating
Salt
Aerated waters, cordials, etc.
Breweries
Distilleries
Wine-making
Cider and perry
Malting
Bottling
Tobacco, cigars, cigarettes, snuff
Dehydrated fruit and vegetables
Ice cream
Sausage casings
Arrowroot
Other

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

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

CLASS XI.—FURNITURE OF WOOD, BEDDING, ETC.

Cabinet and furniture making (including billiard tables and upholstery)
Bedding and mattresses (not wire)
Furnishing drapery

CLASS XII.—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 XIV.—RUBBER

Rubber goods (including tyres made)
Tyre retreading and repairing

CLASS XV.—MUSICAL INSTRUMENTS

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

CLASS XVI.—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 XVII.—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	Factories	Employment(a)	Salaries and wages paid(b)	Value of—				
				Materials and fuel used	Output	Production (c)	Land and buildings	Plant and machinery
	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
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	2,948,814	5,023,696	2,074,882	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
1962-63 ..	59,146	1,167	1,222,466	3,332,149	5,728,163	2,396,014	1,502,180	1,642,028
1963-64p ..	59,362	1,210	1,325,971	3,684,267	6,319,040	2,634,773	1,602,181	1,739,633

(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).

Note.—Revised figures for the motor engineering and electricity generating industries in Victoria were received too late for insertion in §§ 1-9 of this chapter. They have however, been incorporated in the individual industry tables in § 11, pages 187 and 202. Amended figures for the earlier sections will be found in the appendix.

§ 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 1958-59 to 1962-63.

FACTORIES: NUMBER

Year	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
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
1962-63	23,729	17,500	5,895	5,766	4,492	1,764	59,146

2. Number of Factories in Industrial Classes.—(i) *Australia*. The next table shows the number of factories in Australia for the years 1958-59 to 1962-63 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	1958-59	1959-60	1960-61	1961-62	1962-63
I. Treatment of non-metalliferous mine and quarry products	1,344	1,374	1,434	1,454	1,493
II. Bricks, pottery, glass, etc.	663	682	694	694	692
III. Chemicals, dyes, explosives, paints, oils, grease ..	1,218	1,248	1,258	1,285	1,288
IV. Industrial metals, machines, conveyances	21,254	22,622	23,532	24,193	24,914
V. Precious metals, jewellery, plate	818	823	859	911	918
VI. Textiles and textile goods (not dress)	1,373	1,435	1,421	1,386	1,368
VII. Skins and leather (not clothing or footwear) ..	729	727	703	671	656
VIII. Clothing (except knitted)	7,195	7,267	7,493	7,561	7,614
IX. Food, drink and tobacco	7,580	7,449	7,331	7,251	7,161
X. Sawmills, joinery, boxes, etc., wood turning and carving	5,676	5,771	5,732	5,634	5,521
XI. Furniture of wood, bedding, etc.	2,184	2,211	2,176	2,157	2,154
XII. Paper, stationery, printing, bookbinding, etc. ..	2,518	2,619	2,688	2,739	2,774
XIII. Rubber	606	620	629	650	659
XIV. Musical instruments	86	87	88	85	86
XV. Miscellaneous products	1,251	1,330	1,370	1,409	1,486
<i>Total, Classes I. to XV.</i>	<i>54,495</i>	<i>56,265</i>	<i>57,408</i>	<i>58,080</i>	<i>58,784</i>
XVI. Heat, light and power	393	392	374	370	362
Grand Total	54,888	56,657	57,782	58,450	59,146

(ii) *States, 1962-63.* The following table shows the number of factories in each State classified by nature of industry.

FACTORIES: NUMBER IN INDUSTRIAL CLASSES, 1962-63

Class of industry	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of non-metalliferous mine and quarry products ..	512	477	120	182	151	51	1,493
II. Bricks, pottery, glass, etc. ..	307	183	53	80	50	19	692
III. Chemicals, dyes, explosives, paints, oils, grease ..	612	390	86	97	74	29	1,288
IV. Industrial metals, machines, conveyances ..	10,087	6,944	2,440	2,781	2,060	602	24,914
V. Precious metals, jewellery, plate ..	365	247	44	169	74	19	918
VI. Textiles and textile goods (not dress) ..	440	781	31	58	39	19	1,368
VII. Skins and leather (not clothing or footwear) ..	302	240	44	40	24	6	656
VIII. Clothing (except knitted) ..	3,423	2,545	565	594	390	97	7,614
IX. Food, drink and tobacco ..	2,530	1,989	976	744	624	298	7,161
X. Sawmills, joinery, boxes, etc., wood turning and carving ..	2,072	1,332	799	409	451	458	5,521
XI. Furniture of wood, bedding, etc. ..	802	635	260	218	170	69	2,154
XII. Paper, stationery, printing, bookbinding, etc. ..	1,187	987	214	197	146	43	2,774
XIII. Rubber ..	234	180	115	57	51	22	659
XIV. Musical instruments ..	36	24	7	11	8	..	86
XV. Miscellaneous products ..	731	484	74	96	85	16	1,486
<i>Total Classes I. to XV. ..</i>	<i>23,640</i>	<i>17,438</i>	<i>5,828</i>	<i>5,733</i>	<i>4,397</i>	<i>1,748</i>	<i>58,784</i>
XVI. Heat, light and power ..	89	62	67	33	95	16	362
Grand Total ..	23,729	17,500	5,895	5,766	4,492	1,764	59,146

§ 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, 1962-63.*—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, 1962-63

Size of factory (Persons employed)	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
NUMBER OF FACTORIES							
Under 4	10,357	6,332	2,186	2,674	2,235	759	24,543
4	1,872	1,347	542	491	355	180	4,787
5 to 10	5,283	4,124	1,550	1,228	950	425	13,560
11 to 20	2,773	2,424	731	621	440	179	7,168
21 to 50	1,977	1,856	524	429	328	140	5,254
51 to 100	761	709	172	171	111	40	1,964
101 to 200	381	397	99	82	42	22	1,023
201 to 300	114	129	52	25	17	6	343
301 to 400	71	55	18	12	7	4	167
401 to 500	34	36	6	8	4	1	89
501 to 750	42	55	9	12	..	2	120
751 to 1,000	29	15	3	4	2	2	55
Over 1,000	35	21	3	9	1	4	73
Total ..	23,729	17,500	5,895	5,766	4,492	1,764	59,146

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, 1962-63

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	19,086	12,665	4,516	4,846	4,130	1,512	46,755
4	7,484	5,388	2,168	1,964	1,420	720	19,144
5 to 10	36,733	29,129	10,668	8,531	6,453	2,973	94,487
11 to 20	40,954	35,766	10,619	9,149	6,333	2,595	105,416
21 to 50	62,108	58,890	16,623	13,739	10,317	4,477	166,154
51 to 100	54,360	49,734	12,114	11,819	7,653	2,860	138,540
101 to 200	52,918	56,308	13,950	11,497	5,670	2,939	143,282
201 to 300	27,661	31,505	12,563	5,913	3,811	1,473	82,926
301 to 400	24,768	18,940	6,464	3,984	2,305	1,297	57,758
401 to 500	15,181	16,100	2,581	3,555	1,833	448	39,698
501 to 750	25,633	32,908	5,331	7,684	..	1,282	72,838
751 to 1,000	24,663	13,578	2,787	3,497	1,713	1,757	47,995
Over 1,000	86,856	38,247	5,229	19,584	2,686	6,797	159,399
Total	478,405	399,158	105,613	105,762	54,324	31,130	1,174,392
Average per factory ..	20.16	22.81	17.92	18.34	12.09	17.65	19.86

2. Australia.—(i) *Size Group, 1958-59 to 1962-63.* The following table gives details according to broad groups for the last five years.

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
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
1962-63—								
Number	50,057	265,802	7,217	304,694	1,872	603,896	59,146	1,174,392
Average per establish- ment .. .. .	..	5.31	..	42.22	..	322.59	..	19.86

(ii) *Classes of Industry, 1962-63.* In the following table, factories in industrial classes are classified in the same broad groups by the number of persons employed in 1962-63.

FACTORIES: AVERAGE NUMBER OF PERSONS EMPLOYED IN INDUSTRIAL CLASSES, BY SIZE OF FACTORY, AUSTRALIA, 1962-63

Class of industry	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
I. Treatment of non-metalliferous mine and quarry products ..	1,299	7,094	154	6,393	40	10,577	1,493	24,064
II. Bricks, pottery, glass, etc. ..	437	3,290	207	9,364	48	12,715	692	25,369
III. Chemicals, dyes, explosives, paints, oils, grease ..	913	5,917	274	12,945	101	29,017	1,288	47,879
IV. Industrial metals, machines, conveyances ..	21,680	107,540	2,476	105,185	758	313,558	24,914	526,283
V. Precious metals, jewellery, plate ..	876	3,707	41	1,483	1	140	918	5,330
VI. Textiles and textile goods (not dress)	839	6,441	359	16,353	170	49,649	1,368	72,443
VII. Skins and leather (not clothing or footwear) ..	515	3,341	123	5,244	18	3,726	656	12,311
VIII. Clothing (except knitted) ..	6,367	31,908	1,077	44,316	170	32,876	7,614	109,100
IX. Food, drink and tobacco ..	6,064	31,155	850	36,642	247	65,172	7,161	132,969
X. Sawmills, joinery, boxes, etc., wood turning and carving ..	4,908	28,443	555	20,897	58	8,882	5,521	58,222
XI. Furniture of wood, bedding, etc. ..	1,904	9,849	226	8,711	24	3,508	2,154	22,068
XII. Paper, stationery, printing, book-binding, etc. ..	2,065	14,754	582	24,746	127	36,958	2,774	76,458
XIII. Rubber ..	584	3,012	45	1,755	30	14,188	659	18,955
XIV. Musical instruments	76	316	10	433	..	..	86	749
XV. Miscellaneous products ..	1,257	7,628	184	7,760	45	10,876	1,486	26,264
<i>Total, Classes I. to XV. ..</i>	<i>49,784</i>	<i>264,395</i>	<i>7,163</i>	<i>302,227</i>	<i>1,837</i>	<i>591,842</i>	<i>58,784</i>	<i>1,158,464</i>
XVI. Heat, light and power	273	1,407	54	2,467	35	12,054	362	15,928
Grand Total ..	50,057	265,802	7,217	304,694	1,872	603,896	59,146	1,174,392

§ 4. 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. 155), 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. 150), 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 1958-59 to 1962-63 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.
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
1962-63 ..	888,113	30,656	3.58	278,745	15,536	5.90	1,166,858	46,192	4.12

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.
AVERAGE NUMBER EMPLOYED DURING FULL YEAR (52 WEEKS)							
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
1962-63 ..	475,249	397,156	104,998	105,265	53,435	30,755	1,166,858
PERCENTAGE OF AUSTRALIAN TOTAL							
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
1962-63 ..	40.72	34.04	9.00	9.02	4.58	2.64	100
PER 1,000 OF POPULATION							
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
1962-63 ..	118	131	68	105	70	85	109

2. Rates of Increase, 1958-59 to 1962-63.—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.
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
1962-63 ..	3.07	5.14	3.31	6.23	4.71	2.28	4.12

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 1958–59 to 1962–63.

FACTORIES: PERSONS EMPLOYED IN INDUSTRIAL CLASSES, AUSTRALIA

Class of industry	1958–59	1959–60	1960–61	1961–62	1962–63
I. Treatment of non-metalliferous mine and quarry products	21,093	21,778	23,363	23,182	23,889
II. Bricks, pottery, glass, etc. .. .	23,093	24,308	24,612	24,108	25,152
III. Chemicals, dyes, explosives, paints, oils, grease	47,876	47,617	46,833	46,830	47,535
IV. Industrial metals, machines, conveyances .. .	469,446	498,192	509,939	496,975	524,641
V. Precious metals, jewellery, plate .. .	5,483	5,308	5,342	5,226	5,308
VI. Textiles and textile goods (not dress) .. .	67,467	72,263	71,092	67,949	72,022
VII. Skins and leather (not clothing or footwear) .. .	12,935	12,952	12,310	11,955	12,264
VIII. Clothing (except knitted) .. .	106,098	106,830	107,158	104,655	107,932
IX. Food, drink and tobacco .. .	125,408	126,154	126,477	128,590	131,301
X. Sawmills, joinery, boxes, etc., wood turning and carving .. .	60,101	61,651	60,810	57,279	57,114
XI. Furniture of wood, bedding, etc. .. .	22,110	22,902	22,219	21,374	21,815
XII. Paper, stationery, printing, bookbinding, etc. .. .	68,327	71,672	74,582	73,839	76,263
XIII. Rubber .. .	18,467	18,663	18,395	17,174	18,916
XIV. Musical instruments .. .	1,025	936	812	733	749
XV. Miscellaneous products .. .	22,286	23,851	24,757	24,682	26,124
<i>Total, Classes I. to XV.</i> .. .	<i>1,071,215</i>	<i>1,115,077</i>	<i>1,128,701</i>	<i>1,104,551</i>	<i>1,151,025</i>
XVI. Heat, light and power .. .	17,041	16,600	16,031	16,115	15,833
Grand Total	1,088,256	1,131,677	1,144,732	1,120,666	1,166,858

(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, 1962-63

Class of industry	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of non-metalliferous mine and quarry products .. .	9,582	7,156	2,280	2,282	1,776	813	23,889
II. Bricks, pottery, glass, etc. .. .	12,617	7,007	1,403	2,225	1,518	382	25,152
III. Chemicals, dyes, explosives, paints, oils, grease .. .	23,160	16,062	1,751	2,944	2,692	926	47,535
IV. Industrial metals, machines, conveyances .. .	230,313	161,978	38,296	60,470	23,249	10,335	524,641
V. Precious metals, jewellery, plate .. .	2,179	2,022	316	539	209	43	5,308
VI. Textiles and textile goods (not dress) .. .	21,232	41,930	2,243	2,533	871	3,213	72,022
VII. Skins and leather (not clothing or footwear) .. .	5,237	3,993	1,184	1,164	625	61	12,264
VIII. Clothing (except knitted) .. .	44,566	46,795	7,765	5,098	2,992	716	107,932
IX. Food, drink and tobacco .. .	41,046	39,425	26,941	11,241	7,560	5,088	131,301
X. Sawmills, joinery, boxes, etc., wood turning and carving .. .	19,055	14,639	9,097	5,311	5,347	3,665	57,114
XI. Furniture of wood, bedding, etc. .. .	8,758	6,375	2,643	2,191	1,372	476	21,815
XII. Paper, stationery, printing, bookbinding, etc. .. .	31,617	25,927	6,426	4,868	3,006	4,419	76,263
XIII. Rubber .. .	7,591	7,806	1,891	1,148	348	132	18,916
XIV. Musical instruments .. .	458	192	33	32	34	..	749
XV. Miscellaneous products .. .	12,339	11,056	734	1,256	619	120	26,124
<i>Total, Classes I. to XV.</i> .. .	<i>469,750</i>	<i>392,363</i>	<i>103,003</i>	<i>103,302</i>	<i>52,218</i>	<i>30,389</i>	<i>1,151,025</i>
XVI. Heat, light and power .. .	5,499	4,793	1,995	1,963	1,217	366	15,833
Grand Total	475,249	397,156	104,998	105,265	53,435	30,755	1,166,858

4. Persons Employed According to Occupational Grouping.—In the following table, the average number of persons employed in each State during 1962–63 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, 1962-63

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	14,299	62,300	8,771	389,879	475,249
Victoria	12,784	50,730	7,839	325,803	397,156
Queensland	4,717	11,806	1,339	87,136	104,998
South Australia	4,103	13,237	1,923	86,002	105,265
Western Australia	2,879	5,242	620	44,694	53,435
Tasmania	1,080	3,407	674	25,594	30,755
<i>Total Males</i>	<i>33,886</i>	<i>90,245</i>	<i>19,110</i>	<i>744,872</i>	<i>888,113</i>
<i>Total Females</i>	<i>5,976</i>	<i>56,477</i>	<i>2,056</i>	<i>214,236</i>	<i>278,745</i>
Total Persons	39,862	146,722	21,166	959,108	1,166,858

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

(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, 1958-59 to 1962-63.—(i) *Australia*. The following table shows the number of persons (excluding working proprietors) employed in factories on the last pay-day of each month during the years 1958-59 to 1962-63.

FACTORIES: MONTHLY EMPLOYMENT, AUSTRALIA

(EXCLUDING WORKING PROPRIETORS)

Month	1958-59	1959-60	1960-61	1961-62	1962-63
MALES					
July	794,374	811,912	844,659	809,433	842,528
August	794,537	814,297	846,325	810,822	845,144
September	795,464	817,277	848,593	806,514	847,175
October	796,964	820,178	849,211	816,327	849,228
November	799,368	821,316	849,265	820,488	851,666
December	792,351	817,217	843,037	816,602	846,391
January	794,996	824,919	843,995	822,210	852,458
February	800,208	831,022	838,482	830,641	859,136
March	802,408	835,371	829,781	834,926	862,292
April	804,259	835,236	823,500	832,434	860,614
May	804,691	839,084	818,065	837,001	860,682
June	805,641	840,832	810,295	839,177	862,579

FACTORIES: MONTHLY EMPLOYMENT, AUSTRALIA—continued

Month	1958-59	1959-60	1960-61	1961-62	1962-63
FEMALES					
July	244,610	251,512	270,302	243,839	266,110
August	245,349	253,864	272,491	245,882	267,667
September	245,882	257,906	274,698	248,688	270,444
October	246,199	260,105	275,647	253,485	272,697
November	247,098	262,514	276,226	256,261	273,746
December	244,235	259,753	271,401	255,779	270,252
January	243,625	260,749	267,386	257,742	270,734
February	249,847	267,234	269,012	263,919	276,821
March	250,384	270,364	263,623	266,971	280,206
April	249,209	267,916	256,478	261,519	274,303
May	248,365	269,200	250,137	264,039	273,249
June	248,915	270,402	245,088	264,374	271,997

PERSONS					
July	1,038,984	1,063,424	1,114,961	1,053,272	1,108,638
August	1,039,886	1,068,161	1,118,816	1,056,704	1,112,811
September	1,041,346	1,075,183	1,123,291	1,055,202	1,117,619
October	1,043,163	1,080,283	1,124,858	1,069,812	1,121,925
November	1,046,466	1,083,830	1,125,491	1,076,749	1,125,412
December	1,036,586	1,076,970	1,114,438	1,072,381	1,116,643
January	1,038,621	1,085,668	1,111,381	1,079,952	1,123,192
February	1,050,055	1,098,256	1,107,494	1,094,560	1,135,957
March	1,052,792	1,105,735	1,093,404	1,101,897	1,142,498
April	1,053,468	1,103,152	1,079,978	1,093,953	1,134,917
May	1,053,056	1,108,284	1,068,202	1,101,040	1,133,931
June	1,054,556	1,111,234	1,055,383	1,103,551	1,134,576

(ii) *States.* Particulars of the numbers employed in each State on the last pay-day of each month in 1962-63 are shown in the following table.

FACTORIES: MONTHLY EMPLOYMENT, 1962-63
(EXCLUDING WORKING PROPRIETORS)

Month	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
MALES							
July	342,420	268,558	84,171	81,180	42,337	23,862	842,528
August	343,013	269,449	84,460	81,790	42,603	23,829	845,144
September	343,725	270,637	84,160	81,950	42,834	23,869	847,175
October	345,267	271,697	83,370	82,038	42,914	23,942	849,228
November	346,018	273,300	82,495	82,494	43,348	24,011	851,666
December	345,033	273,432	77,162	82,407	43,503	24,854	846,391
January	345,723	275,857	78,746	83,379	43,676	25,077	852,458
February	348,061	277,551	81,028	83,820	43,830	24,846	859,136
March	348,576	277,848	82,455	84,492	44,231	24,690	862,292
April	347,931	276,937	82,255	84,594	44,192	24,705	860,614
May	347,464	276,533	83,324	84,581	44,154	24,626	860,682
June	347,403	276,362	85,510	84,946	43,844	24,514	862,579

FACTORIES: MONTHLY EMPLOYMENT, 1962-63—continued

Month	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
FEMALES							
July	113,443	105,947	17,565	17,320	6,729	5,106	266,110
August	113,838	106,718	17,998	17,434	6,790	4,889	267,667
September	115,149	108,045	18,138	17,505	6,831	4,776	270,444
October	116,248	109,281	18,043	17,510	6,826	4,789	272,697
November	116,831	109,812	17,691	17,634	6,947	4,831	273,746
December	114,575	108,707	17,116	17,739	6,902	5,213	270,252
January	114,047	109,053	17,021	18,382	6,732	5,499	270,734
February	116,120	112,131	17,665	18,574	6,853	5,478	276,821
March	116,621	113,894	18,057	18,756	7,141	5,737	280,206
April	115,051	110,847	17,386	18,085	7,234	5,700	274,303
May	114,369	109,925	18,046	18,127	7,219	5,563	273,249
June	114,031	109,670	18,022	18,001	7,034	5,239	271,997
PERSONS							
July	455,863	374,505	101,736	98,500	49,066	28,968	1,108,638
August	456,851	376,167	102,458	99,224	49,393	28,718	1,112,811
September	458,874	378,682	102,298	99,455	49,665	28,645	1,117,619
October	461,515	380,978	101,413	99,548	49,740	28,731	1,121,925
November	462,849	383,112	100,186	100,128	50,295	28,842	1,125,412
December	459,608	382,139	94,278	100,146	50,405	30,067	1,116,643
January	459,770	384,910	95,767	101,761	50,408	30,576	1,123,192
February	464,181	389,682	98,693	102,394	50,683	30,324	1,135,957
March	465,197	391,742	100,512	103,248	51,372	30,427	1,142,498
April	462,982	387,784	99,641	102,679	51,426	30,405	1,134,917
May	461,833	386,458	101,370	102,708	51,373	30,189	1,133,931
June	461,434	386,032	103,532	102,947	50,878	29,753	1,134,576

6. Distribution of Employees According to Age.—The following table shows the number of each sex employed in each age group on the last pay day in June for Australia in the years 1959 to 1963.

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

June—	Males			Females			Persons		
	Under 16 years	16 to 20 years	21 years and over	Under 16 years	16 to 20 years	21 years and over	Under 16 years	16 to 20 years	21 years and over
1959	8,411	78,461	718,769	7,234	46,011	195,670	15,645	124,472	914,439
1960	8,627	82,016	750,189	7,457	48,845	214,100	16,084	130,861	964,289
1961	8,849	79,941	721,505	7,162	44,432	193,494	16,011	124,373	914,999
1962	9,176	86,498	743,503	8,764	48,817	206,793	17,940	135,315	950,296
1963	8,736	92,163	761,680	7,852	51,778	212,367	16,588	143,941	974,047

§ 5. 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 1958-59 to 1962-63.

FACTORIES: MALES AND FEMALES EMPLOYED

State	1958-59	1959-60	1960-61	1961-62	1962-63
MALES					
New South Wales	340,757	351,208	355,392	349,154	358,116
Victoria	263,847	275,315	279,675	273,435	285,101
Queensland	87,454	86,985	86,488	84,130	86,536
South Australia	77,427	81,312	81,898	81,803	86,655
Western Australia	41,951	42,957	43,836	44,193	46,252
Tasmania	23,504	24,408	24,811	24,742	25,453
Australia	834,940	862,185	872,100	857,457	888,113
FEMALES					
New South Wales	108,761	115,931	116,669	111,933	117,133
Victoria	99,132	106,199	107,755	104,310	112,055
Queensland	17,299	17,708	17,974	17,507	18,462
South Australia	16,738	17,706	18,057	17,291	18,610
Western Australia	6,466	6,694	6,830	6,840	7,183
Tasmania	4,920	5,254	5,347	5,328	5,302
Australia	253,316	269,492	272,632	263,209	278,745

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 1958-59 to 1962-63.

FACTORIES: ANNUAL PERCENTAGE INCREASES OF MALES AND FEMALES EMPLOYED

State	1958-59	1959-60	1960-61	1961-62	1962-63
MALES					
New South Wales	1.05	3.07	1.19	-1.76	2.57
Victoria	1.71	4.35	1.58	-2.23	4.27
Queensland	3.04	-0.54	-0.57	-2.73	2.86
South Australia	2.00	5.02	0.72	-0.12	5.93
Western Australia	-0.21	2.40	2.05	0.81	4.66
Tasmania	1.83	3.85	1.65	-0.28	2.87
Australia	1.51	3.26	1.15	-1.68	3.58
FEMALES					
New South Wales	0.16	6.59	0.64	-4.06	4.65
Victoria	1.43	7.13	1.47	-3.20	7.42
Queensland	1.92	2.36	1.50	-2.66	5.45
South Australia	1.06	5.78	1.98	-4.24	7.63
Western Australia	0.67	3.53	2.03	0.15	5.01
Tasmania	-1.66	6.79	1.77	-0.36	-0.49
Australia	0.81	6.39	1.17	-3.46	5.90

NOTE.—Minus sign (-) indicates decrease.

3. **Masculinity of Persons Employed in Factories.**—The following table shows, for the years 1958–59 to 1962–63, 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.
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
1962–63	306	254	469	466	644	480	319

(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 1962–63, these industries accounted for 78.27 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 139 females to every 100 males, and in Class VIII., Clothing, with 257 females to every 100 males. The following table shows the average number of males and females employed in each of the four classes in 1962–63.

MALES AND FEMALES EMPLOYED IN PARTICULAR INDUSTRIES, 1962-63

Class	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
MALES							
IV. Industrial metals, etc. ..	200,455	140,678	35,686	53,643	22,048	9,768	462,278
VI. Textiles and textile goods (not dress) ..	8,747	17,316	888	1,242	467	1,478	30,138
VIII. Clothing (except knitted) ..	11,707	13,986	2,046	1,790	910	325	30,764
IX. Food, drink and tobacco ..	28,011	27,064	22,244	7,868	5,822	3,531	94,540
All other classes ..	109,196	86,057	25,672	22,112	17,005	10,351	270,393
Total	358,116	285,101	86,536	86,655	46,252	25,453	888,113
FEMALES							
IV. Industrial metals, etc. ..	29,858	21,300	2,610	6,827	1,201	567	62,363
VI. Textiles and textile goods (not dress) ..	12,485	24,614	1,355	1,291	404	1,735	41,884
VIII. Clothing (except knitted) ..	32,859	32,809	5,719	3,308	2,082	391	77,168
IX. Food, drink and tobacco ..	13,035	12,361	4,697	3,373	1,738	1,557	36,761
All other classes ..	28,896	20,971	4,081	3,811	1,758	1,052	60,569
Total	117,133	112,055	18,462	18,610	7,183	5,302	278,745

(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), 1962-63

Industry	New South Wales			Victoria			Other States		
	Males	Fe- males	Femi- ninity (a)	Males	Fe- males	Femi- ninity (a)	Males	Fe- males	Femi- ninity (a)
Tailoring and ready-made clothing ..	2,994	15,422	515	2,818	8,231	292	913	2,856	312
Waterproof and oilskin clothing ..	147	564	384	160	429	268	5	12	240
Dressmaking, hemstitching ..	130	1,035	796	1,080	7,390	684	139	2,515	1,809
Millinery ..	206	1,193	579	156	728	467	46	475	1,033
Shirts, collars, underclothing ..	480	4,907	1,022	604	5,203	861	163	1,947	1,194
Foundation garments ..	128	1,605	1,254	271	1,620	598	35	353	1,009
Handkerchiefs, ties and scarves ..	170	1,048	616	67	264	394	10	111	1,110
Hats and caps ..	390	384	98	26	75	288	20	111	555
Gloves ..	138	519	376	36	105	292	45	133	296
Boots and shoes (not rubber) ..	2,811	3,201	114	5,369	6,538	122	1,408	1,175	83
Boot and shoe repairing ..	1,484	164	11	976	129	13	767	74	10
Boot and shoe accessories ..	263	177	67	860	401	47	84	29	35
Umbrellas and walking sticks ..	37	73	197	33	92	279	22	46	209
Dyeworks and cleaning (including renovating and repairing) ..	2,291	2,269	99	1,460	1,343	92	1,410	1,656	117
Other ..	38	298	784	70	261	373	4	7	175
Total ..	11,707	32,859	281	13,986	32,809	235	5,071	11,500	227

(a) Number of females per 100 males.

§ 6. Children Employed in Factories

1. Number of Children Employed, 1961 to 1963.—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 1961 to 1963.

FACTORIES: CHILDREN(a) EMPLOYED

State	June, 1961			June, 1962			June, 1963		
	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
New South Wales	2,710	2,009	4,719	2,955	2,646	5,601	2,623	2,196	4,819
Victoria ..	2,707	2,586	5,293	2,625	3,049	5,674	2,444	2,653	5,097
Queensland ..	1,478	1,318	2,796	1,521	1,564	3,085	1,665	1,630	3,295
South Australia	878	804	1,682	953	993	1,946	893	872	1,765
Western Australia	947	350	1,297	1,031	411	1,442	1,016	432	1,448
Tasmania ..	129	95	224	91	101	192	95	69	164
Australia ..	8,849	7,162	16,011	9,176	8,764	17,940	8,736	7,852	16,588

(a) Under sixteen years of age.

2. Industries Employing Children.—The distribution of children employed in factories in June, 1963, 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, 1963

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	3,946	656	454,693	61,660	0.87	1.06
Textiles and textile goods (not dress)	408	1,352	29,627	41,499	1.38	3.26
Clothing (except knitted)	585	3,507	25,625	75,115	2.28	4.67
Food, drink and tobacco	1,092	880	90,294	34,026	1.21	2.59
Sawmills, joinery, boxes, etc.	801	72	49,974	3,352	2.39	2.15
Furniture of wood, bedding, etc.	397	99	15,572	4,264	2.55	2.32
Paper, stationery, printing, bookbinding, etc.	614	714	55,602	20,107	1.10	3.55
All other industries	893	572	141,192	31,974	0.63	1.79
Total	8,736	7,852	862,579	271,997	1.01	2.89

(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.

§ 7. 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 1962–63.

FACTORIES^(a): TOTAL RATED HORSE-POWER OF ENGINES AND ELECTRIC MOTORS, 1962-63

State	Factories ^(a)	Rated horse-power of engines and motors	
		Ordinarily in use ^(b)	In reserve or idle (omitting obsolete)
New South Wales	23,675	2,756,795	401,433
Victoria	17,465	1,679,254	225,852
Queensland	5,844	605,931	85,817
South Australia	5,737	499,139	62,991
Western Australia	4,400	292,425	43,518
Tasmania	1,750	302,742	43,298
Australia	58,871	6,136,286	862,909

(a) Includes gas works but excludes central electric stations, details of which are shown on p. 163.

(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, 1962-63

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. ..	54,959	210,448	5,869	38,369	18,032	..	2,429,118	117,049	2,756,795
Victoria ..	19,154	91,877	1,760	43,816	1,320	890	1,520,437	58,334	1,679,254
Queensland ..	76,732	64,799	1,906	18,839	7,890	..	435,765	117,994	605,931
S. Australia ..	3,882	16,645	688	9,275	3,273	10	465,366	23,221	499,139
W. Australia ..	9,645	13,444	3,395	21,674	5,699	..	238,568	5,957	292,425
Tasmania ..	1,040	..	..	10,812	692	..	290,198	273	302,742
Australia ..	165,412	397,213	13,618	142,785	36,906	900	5,379,452	322,828	6,136,286

- (a) Includes gas works but excludes central electric stations, details of which are shown on p. 163.
 (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 1958-59 to 1962-63.

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)	
1958-59 ..	190,905	302,594	10,821	122,916	56,503	1,271	4,295,456	270,981	4,980,466
1959-60 ..	188,892	328,116	9,484	137,835	48,441	1,092	4,543,175	302,091	5,257,035
1960-61 ..	177,892	334,908	9,045	140,384	42,238	1,092	4,843,868	293,051	5,549,427
1961-62 ..	169,287	359,631	11,687	137,818	40,142	1,092	5,025,141	308,740	5,744,798
1962-63 ..	165,412	397,213	13,618	142,785	36,906	900	5,379,452	322,828	6,136,286

- (a) Includes gas works but excludes central electric stations, details of which are shown on p. 163.
 (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, 1962-63.* 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), 1962-63

Class of industry	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of non-metalliferous mine and quarry products	110,123	95,448	28,539	36,366	21,356	21,029	312,861
II. Bricks, pottery, glass, etc. . .	69,019	49,610	12,405	12,400	13,532	3,067	160,033
III. Chemicals, dyes, explosives, paints, oils, grease . . .	253,251	182,219	13,515	35,052	51,671	15,946	551,654
IV. Industrial metals, machines, conveyances . . .	1,524,050	569,924	124,785	219,531	80,185	63,475	2,581,950
V. Precious metals, jewellery, plate	4,822	3,776	485	2,314	656	97	12,150
VI. Textiles and textile goods (not dress) . . .	60,813	111,315	7,316	8,063	3,043	9,851	200,401
VII. Skins and leather (not clothing or footwear) . . .	18,472	14,728	6,586	6,142	2,916	518	49,362
VIII. Clothing (except knitted) . . .	27,247	29,636	5,065	4,352	2,676	831	69,807
IX. Food, drink and tobacco . . .	230,771	225,064	241,617	67,708	47,031	28,538	840,729
X. Sawmills, joinery, boxes, etc., wood turning and carving	195,757	127,645	118,018	54,187	53,459	48,856	597,922
XI. Furniture of wood, bedding, etc.	20,202	13,940	7,727	7,253	4,182	1,598	54,902
XII. Paper, stationery, printing, bookbinding, etc. . .	118,219	116,650	24,042	26,196	7,124	107,996	400,227
XIII. Rubber	61,593	70,873	11,752	8,444	1,613	546	154,821
XIV. Musical instruments	1,217	322	52	14	13	..	1,618
XV. Miscellaneous products	42,132	41,156	1,097	2,631	1,526	318	88,860
<i>Total, Classes I. to XV. . .</i>	<i>2,737,688</i>	<i>1,652,306</i>	<i>603,001</i>	<i>490,653</i>	<i>290,983</i>	<i>302,666</i>	<i>6,077,297</i>
XVI. Gas works	19,107	26,948	2,930	8,486	1,442	76	58,989
Grand Total	2,756,795	1,679,254	605,931	499,139	292,425	302,742	6,136,286

(a) Excludes central electric stations, details of which are shown below. (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 1962-63 are given in the following table.

CENTRAL ELECTRIC STATIONS: POWER EQUIPMENT, AUSTRALIA, 1962-63

Particulars	Capacity of engines and generators						Total
	Steam		Internal combustion			Water	
	Reciprocating	Turbine	Gas	Petrol or other light oils	Heavy oils		
Engines installed .. Rated H.P.	2,350	7,306,757	10,445	39,022	289,535	2,550,045	10,198,154
Generators installed—							
Kilowatt capacity—							
Total installed .. kW	1,760	5,419,472	7,359	27,234	192,940	1,850,310	7,499,075
Effective capacity .. "	1,700	5,267,930	5,074	24,038	173,336	1,844,801	7,316,879
Horse-power equivalent—							
Total installed .. H.P.	2,359	7,264,694	9,865	36,507	258,632	2,480,303	10,052,360
Effective capacity .. "	2,279	7,061,555	6,802	32,222	232,353	2,472,919	9,808,130

(ii) *States.* Details of the capacity of engines and generators installed in Central Electric Stations in each State in 1962-63 are given in the next table.

CENTRAL ELECTRIC STATIONS: NUMBER AND POWER EQUIPMENT, 1962-63

Particulars		N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Central electric stations ..	No.	54	35	51	29	92	14	275
Engines installed ..	Rated H.P.	4,553,430	2,221,290	1,164,170	818,163	556,167	884,934	10,198,154
Generators installed—								
Kilowatt capacity—								
Total installed ..	kW	3,365,562	1,657,498	857,584	609,103	380,798	628,530	7,499,075
Effective capacity ..	„	3,263,084	1,672,694	779,932	602,570	372,899	625,700	7,316,879
Horse-power equivalent—								
Total installed ..	H.P.	4,511,469	2,221,843	1,149,574	816,490	510,452	842,532	10,052,360
Effective capacity ..	„	4,374,099	2,242,213	1,045,483	807,733	499,864	838,738	9,808,130

§ 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 1962-63 was £5,728 million, of which £3,130 million was the value of the materials used, including containers, etc., tools replaced, and repairs to plant and buildings, and £202 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, £2,396 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. 171). 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. 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 1962-63 was £1,222 million, excluding amounts drawn by working proprietors.

2. *Salaries and Wages Paid.*—(i) *In Classes of Industry, 1962-63.* 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, 1962-63

(£'000)

Class of industry	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of non-metalliferous mine and quarry products ..	11,761	8,582	2,523	2,678	1,869	934	28,347
II. Bricks, pottery, glass, etc. ..	14,440	7,918	1,430	2,530	1,567	412	28,297
III. Chemicals, dyes, explosives, paints, oils, grease ..	28,394	20,339	1,830	3,466	3,250	1,252	58,531
IV. Industrial metals, machines, conveyances ..	265,393	182,237	36,272	67,030	21,807	11,649	584,388
V. Precious metals, jewellery, plate ..	2,029	2,051	241	410	149	30	4,910
VI. Textiles and textile goods (not dress) ..	18,850	37,793	1,641	2,178	719	2,896	64,077
VII. Skins and leather (not clothing or footwear) ..	5,212	3,891	1,116	1,180	593	65	12,057
VIII. Clothing (except knitted) ..	32,332	36,334	4,531	3,299	1,651	481	78,628
IX. Food, drink and tobacco ..	41,591	40,450	27,242	10,397	7,129	4,835	131,644
X. Sawmills, joinery, boxes, etc., wood turning and carving ..	19,022	15,147	7,882	4,925	4,798	3,425	55,199
XI. Furniture of wood, bedding, etc. ..	8,665	5,838	2,145	1,765	1,057	366	19,836
XII. Paper, stationery, printing, bookbinding, etc. ..	36,139	30,277	6,456	5,168	3,010	5,335	86,385
XIII. Rubber ..	9,262	9,122	1,693	1,451	306	124	21,958
XIV. Musical instruments ..	494	201	21	25	25		766
XV. Miscellaneous products ..	12,925	11,684	575	1,039	477	97	26,797
<i>Total, Classes I. to XV.</i>	<i>506,509</i>	<i>411,864</i>	<i>95,598</i>	<i>107,541</i>	<i>48,407</i>	<i>31,901</i>	<i>1,201,820</i>
XVI. Heat, light and power ..	7,099	6,687	2,317	2,492	1,533	518	20,646
Grand Total ..	513,608	418,551	97,915	110,033	49,940	32,419	1,222,466

(ii) *Totals and Averages, 1958-59 to 1962-63.* 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.
TOTAL AMOUNT PAID (£'000)							
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
1962-63	513,608	418,551	97,915	110,033	49,940	32,419	1,222,466
AVERAGE PER EMPLOYEE (£)							
1958-59	952.82	928.60	856.33	911.89	847.81	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
1962-63	1114.24	1088.89	976.41	1087.71	987.82	1092.47	1084.71

(iii) *Total and Average Earnings of Males and Females, 1958-59 to 1962-63.* 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)

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	412,560	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
1962-63	432,252	341,980	87,743	98,911	45,958	28,918	1,035,762

AVERAGE PER MALE EMPLOYEE (£)

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
1962-63	1,249.71	1,245.42	1,063.35	1,188.42	1,054.64	1,183.51	1,212.51

FEMALES

TOTAL AMOUNT PAID (£'000)

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
1962-63	81,356	76,570	10,172	11,123	3,982	3,501	186,704

AVERAGE PER FEMALE EMPLOYEE (£)

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
1962-63	707.02	697.47	572.59	620.25	570.57	668.00	684.48

(iv) *Managers, Clerical Staff and Other Employees.* The following table shows, for 1962-63, 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, 1962-63

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	4,428	760	23,017	142
II. Bricks, pottery, glass, etc.	2,949	659	23,729	960
III. Chemicals, dyes, explosives, paints, oils, grease ..	15,414	3,404	35,434	4,279
IV. Industrial metals, machines, conveyances ..	93,199	18,556	447,546	25,087
V. Precious metals, jewellery, plate	629	224	3,590	467
VI. Textiles and textile goods (not dress)	6,514	2,638	29,200	25,725
VII. Skins and leather (not clothing or footwear) ..	1,428	309	8,404	1,916
VIII. Clothing (except knitted)	6,263	3,268	23,173	45,924
IX. Food, drink and tobacco	19,680	5,932	87,419	18,613
X. Sawmills, joinery, boxes, etc., wood turning and carving	6,754	1,403	46,290	752
XI. Furniture of wood, bedding, etc.	2,286	793	14,609	2,148
XII. Paper, stationery, printing, bookbinding, etc. . .	13,025	3,955	60,064	9,341
XIII. Rubber	3,529	753	15,581	2,095
XIV. Musical instruments	102	24	559	81
XV. Miscellaneous products	4,347	1,426	16,053	4,971
<i>Total, Classes I. to XV.</i>	<i>180,547</i>	<i>44,104</i>	<i>834,668</i>	<i>142,501</i>
XVI. Heat, light and power	2,051	76	18,496	23
Grand Total	182,598	44,180	853,164	142,524
	£	£	£	£
Average paid per employee	1,669.77	754.79	1,145.38	665.27

3. Power, Fuel and Light Used.—(i) *In Classes of Industry, 1962-63.* 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 1962-63.

FACTORIES: VALUE OF POWER, FUEL AND LIGHT USED(a), 1962-63
 (£'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 ..	5,516	2,865	1,011	1,052	629	463	11,536
II. Bricks, pottery, glass, etc. ..	4,113	2,501	546	728	568	166	8,622
III. Chemicals, dyes, explosives, paints, oils, grease ..	8,530	7,307	303	1,095	2,299	539	20,073
IV. Industrial metals, machines, conveyances ..	47,762	10,925	2,924	5,772	1,538	2,992	71,913
V. Precious metals, jewellery, plate	173	161	16	41	11	2	404
VI. Textiles and textile goods (not dress)	1,761	2,786	98	218	51	259	5,173
VII. Skins and leather (not clothing or footwear) ..	444	446	96	148	68	7	1,209
VIII. Clothing (except knitted) ..	1,074	1,008	195	151	81	39	2,548
IX. Food, drink and tobacco ..	6,720	6,456	3,431	1,456	1,158	640	19,861
X. Sawmills, joinery, boxes, etc., wood turning and carving ..	1,520	858	656	369	343	364	4,110
XI. Furniture of wood, bedding, etc.	230	135	51	48	29	9	502
XII. Paper, stationery, printing, bookbinding, etc.	2,111	2,517	410	525	132	1700	7,395
XIII. Rubber	1,182	1,399	203	168	33	19	3,004
XIV. Musical instruments ..	35	10	1	1	(b)	..	47
XV. Miscellaneous products ..	916	1,131	20	60	26	3	2,156
<i>Total, Classes I. to XV.</i>	<i>82,087</i>	<i>40,505</i>	<i>9,961</i>	<i>11,832</i>	<i>6,966</i>	<i>7,202</i>	<i>158,553</i>
XVI. Heat, light and power ..	16,667	11,255	7,638	4,204	3,895	17	43,676
Grand Total	98,754	51,760	17,599	16,036	10,861	7,219	202,229

(a) Includes value of lubricants and water.

(b) Less than £500.

(ii) *Values of Items, 1962-63.* 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), 1962-63
(£'000)

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Coal, black	18,767	1,566	9,277	(b)3,496	2,589	981	36,676
.. brown .. ..	..	6,567	..	..	..	..	6,567
Brown coal briquettes .. ..	..	6,111	..	..	..	..	6,111
Coke	17,470	743	400	2,445	219	333	21,610
Wood	389	449	312	364	384	96	1,994
Fuel oil	10,538	10,406	1,618	3,042	3,979	1,213	30,796
Tar (fuel)	1,427	79	28	103	4	14	1,655
Electricity	30,324	19,918	4,526	4,985	2,505	3,976	66,234
Gas	10,204	1,724	264	298	98	43	12,631
Other (charcoal, etc.)	4,023	657	167	447	456	324	6,074
Water	4,009	2,481	557	551	369	148	8,115
Lubricating oils	1,603	1,059	450	305	258	91	3,766
Total	98,754	51,760	17,599	16,036	10,861	7,219	202,229

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

(b) Includes £2,343,975, the value of 1,382,095 tons

(iii) *Quantities of Fuel Used, 1962-63.* The following table shows the quantities of fuel used in factories in each State during the year.

FACTORIES: QUANTITIES OF FUEL USED, 1962-63

Particulars	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Coal, black '000 tons	6,376	250	1,976	(a)1,601	674	196	11,073
.. brown .. ..	..	12,762	..	..	..	..	12,762
Brown coal briquettes .. ..	..	1,089	..	..	..	..	1,089
Coke	2,551	63	25	274	17	18	2,948
Wood	182	235	151	249	239	68	1,124
Fuel oil '000 gals.	243,013	254,738	23,829	74,391	99,177	25,095	720,243
Tar (fuel)	36,593	1,612	622	3,020	137	298	42,282

(a) Includes 1,382,095 tons of Leigh Creek coal.

(iv) *Total Value, 1958-59 to 1962-63.* 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
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
1962-63	98,754	51,760	17,599	16,036	10,861	7,219	202,229

(a) Includes value of lubricants and water.

4. *Value of Materials Used.*—(i) *In Classes of Industry, 1962-63.* 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 1962-63 reached £3,130 million, or 54.6 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, 1962-63
(£'000)

Class of industry	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of non-metalliferous mine and quarry products ..	45,018	21,843	6,006	6,733	4,099	2,285	85,984
II. Bricks, pottery, glass, etc. ..	13,405	8,058	1,188	3,052	1,036	252	26,991
III. Chemicals, dyes, explosives, paints, oils, grease ..	150,995	123,662	10,176	14,331	36,034	2,955	338,153
IV. Industrial metals, machines, conveyances ..	603,632	292,721	91,341	134,181	38,966	24,022	1,184,863
V. Precious metals, jewellery, plate ..	2,262	2,234	143	326	83	13	5,061
VI. Textiles and textile goods (not dress) ..	45,188	97,134	4,864	4,789	2,982	7,028	161,985
VII. Skins and leather (not clothing or footwear) ..	15,032	10,086	2,955	6,849	749	407	36,078
VIII. Clothing (except knitted) ..	58,033	57,770	5,192	3,755	1,949	426	127,125
IX. Food, drink and tobacco ..	198,193	216,498	195,732	46,592	35,981	21,436	714,432
X. Sawmills, joinery, boxes, etc., wood turning and carving ..	43,031	30,653	15,407	12,550	8,403	8,348	118,392
XI. Furniture of wood, bedding, etc. ..	18,650	12,060	5,231	3,754	2,566	646	42,907
XII. Paper, stationery, printing, bookbinding, etc. ..	69,191	65,376	11,275	8,200	4,654	9,537	168,233
XIII. Rubber ..	21,758	21,292	3,964	2,273	721	255	50,263
XIV. Musical instruments ..	1,124	183	22	9	14	..	1,352
XV. Miscellaneous products ..	21,808	24,223	698	2,008	781	64	49,582
<i>Total, Classes I. to XV.</i>	<i>1,307,320</i>	<i>983,793</i>	<i>354,194</i>	<i>249,402</i>	<i>139,018</i>	<i>77,674</i>	<i>3,111,401</i>
XVI. Heat, light and power ..	7,504	5,093	2,670	2,028	860	364	18,519
Grand Total ..	1,314,824	988,886	356,864	251,430	139,878	78,038	3,129,920

(ii) *Total Amounts, 1958-59 to 1962-63.* The following table shows the value of materials used in factories for these years.

FACTORIES: VALUE OF MATERIALS USED
(£'000)

Year	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
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
1962-63 ..	1,314,824	988,886	356,864	251,430	139,878	78,038	3,129,920

5. *Value of Output.*—(i) *In Classes of Industry, 1962-63.* The value of the output of factories in the various classes in each State in 1962-63 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, 1962-63

(£'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	75,284	44,473	13,218	15,149	9,332	5,017	162,473
II. Bricks, pottery, glass, etc. ..	42,212	24,635	4,543	8,629	4,548	1,096	85,663
III. Chemicals, dyes, explosives paints, oils, grease ..	257,713	202,440	16,986	25,773	54,920	6,082	563,914
IV. Industrial metals, machines, conveyances	1,113,718	599,107	151,968	241,745	78,806	50,377	2,235,721
V. Precious metals, jewellery, plate	6,051	5,812	565	1,175	413	72	14,088
VI. Textiles and textile goods (not dress)	83,685	167,007	7,848	8,855	4,372	12,283	284,050
VII. Skins and leather (not clothing or footwear) ..	23,974	17,221	5,140	8,718	1,851	513	57,417
VIII. Clothing (except knitted) ..	115,607	118,664	12,943	9,413	4,855	1,359	262,841
IX. Food, drink and tobacco ..	315,783	322,468	259,532	68,749	53,513	32,706	1,052,751
X. Sawmills, joinery, boxes, etc., wood turning and carving	77,916	56,692	29,430	21,371	17,426	14,845	217,680
XI. Furniture of wood, bedding, etc.	33,747	22,702	9,008	7,062	4,589	1,296	78,404
XII. Paper, stationery, printing, bookbinding, etc. ..	146,028	128,515	23,798	18,380	10,949	23,414	351,084
XIII. Rubber	36,118	41,080	7,928	5,231	1,529	542	92,428
XIV. Musical instruments ..	2,929	482	62	55	52	..	3,580
XV. Miscellaneous products ..	46,386	47,506	1,691	4,120	1,702	217	101,622
<i>Total, Classes I. to XV.</i>	<i>2,377,151</i>	<i>1,798,804</i>	<i>544,660</i>	<i>444,425</i>	<i>248,857</i>	<i>149,819</i>	<i>5,563,716</i>
XVI. Heat, light and power ..	73,871	41,132	20,286	12,612	10,093	6,453	164,447
Grand Total	2,451,022	1,839,936	564,946	457,037	258,950	156,272	5,728,163

(ii) *Totals, 1958-59 to 1962-63.* The following table shows the value of output in each State during these years.

FACTORIES: VALUE OF OUTPUT

(£'000)

Year	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
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
1962-63	2,451,022	1,839,936	564,946	457,037	258,950	156,272	5,728,163

6. *Value of Production.*—(i) *In Classes of Industry, 1962-63.* 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 1962-63, the value of production in each State for the various classes of industry.

FACTORIES: VALUE OF PRODUCTION, 1962-63

(£'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 ..	24,749	19,765	6,201	7,364	4,604	2,270	64,953
II. Bricks, pottery, glass, etc. ..	24,694	14,075	2,809	4,850	2,944	678	50,050
III. Chemicals, dyes, explosives, paints, oils, grease ..	98,188	71,471	6,506	10,347	16,587	2,589	205,688
IV. Industrial metals, machines, conveyances ..	462,324	295,461	57,702	101,792	38,303	23,363	978,945
V. Precious metals, jewellery, plate ..	3,617	3,416	405	809	318	58	8,623
VI. Textiles and textile goods (not dress) ..	36,736	67,088	2,886	3,848	1,339	4,995	116,892
VII. Skins and leather (not clothing or footwear) ..	8,498	6,689	2,089	1,721	1,034	99	20,130
VIII. Clothing (except knitted) ..	56,501	59,886	7,555	5,507	2,825	894	133,168
IX. Food, drink and tobacco ..	110,871	99,514	60,369	20,700	16,374	10,630	318,458
X. Sawmills, joinery, boxes, etc., wood turning and carving ..	33,365	25,182	13,367	8,452	8,680	6,133	95,179
XI. Furniture of wood, bedding, etc. ..	14,865	10,507	3,726	3,261	1,995	640	34,994
XII. Paper, stationery, printing, bookbinding, etc. ..	74,725	60,622	12,114	9,656	6,164	12,176	175,457
XIII. Rubber ..	13,178	18,389	3,762	2,789	775	268	39,161
XIV. Musical instruments ..	1,770	289	40	45	37	..	2,181
XV. Miscellaneous products ..	23,663	22,152	973	2,051	894	150	49,883
<i>Total, Classes I. to XV.</i>	<i>987,744</i>	<i>774,506</i>	<i>180,504</i>	<i>183,192</i>	<i>102,873</i>	<i>64,943</i>	<i>2,293,762</i>
XVI. Heat, light and power ..	49,699	24,784	9,979	6,379	5,338	6,073	102,252
Grand Total ..	1,037,443	799,290	190,483	189,571	108,211	71,016	2,396,014

(ii) *Totals and Averages, 1958-59 to 1962-63.* 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

Year	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
VALUE (£'000)							
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
1962-63	1,037,443	799,290	190,483	189,571	108,211	71,016	2,396,014

PER PERSON EMPLOYED (£)							
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
1962-63	2,183	2,013	1,814	1,801	2,025	2,309	2,053

PER HEAD OF POPULATION (£)							
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
1962-63	258.36	264.51	122.79	189.77	141.56	196.12	223.63

§ 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 1962-63.

**FACTORIES: VALUE OF LAND, BUILDINGS, PLANT AND MACHINERY(a), 1962-63
(£'000)**

Value of—	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
Land and buildings	689,767	475,802	96,742	106,482	51,428	81,959	1,502,180
Plant and machinery	719,191	500,344	140,292	146,804	66,318	69,079	1,642,028
Total ..	1,408,958	976,146	237,034	253,286	117,746	151,038	3,144,208

(a) At end of year. 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 1958-59 to 1962-63.

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

Class of industry	1958-59	1959-60	1960-61	1961-62	1962-63
I. Treatment of non-metalliferous mine and quarry products	15,175	22,325	27,330	31,132	32,841
II. Bricks, pottery, glass, etc.	16,580	19,616	22,249	26,099	31,530
III. Chemicals, dyes, explosives, paints, oils, grease	76,645	80,477	87,052	95,874	100,514
IV. Industrial metals, machines, conveyances	336,282	387,934	455,442	505,778	550,370
V. Precious metals, jewellery, plate	3,845	3,955	4,516	4,984	5,394
VI. Textiles and textile goods (not dress)	46,671	48,379	53,313	57,791	61,477
VII. Skins and leather (not clothing or footwear)	7,702	9,166	9,333	10,000	10,796
VIII. Clothing (except knitted)	43,203	47,762	53,776	57,964	63,404
IX. Food, drink and tobacco	138,625	149,341	160,716	172,358	185,007
X. Sawmills, joinery, boxes, etc., wood turning and carving	30,656	34,903	40,283	41,088	42,816
XI. Furniture of wood, bedding, etc.	14,677	16,251	17,884	18,881	20,541
XII. Paper, stationery, printing, book-binding, etc.	61,059	68,997	77,498	85,219	91,395
XIII. Rubber	12,821	13,439	15,532	16,875	18,704
XIV. Musical instruments	730	930	922	796	797
XV. Miscellaneous products	14,688	18,345	20,720	26,092	29,107
<i>Total, Classes I. to XV.</i>	<i>819,359</i>	<i>921,820</i>	<i>1,046,566</i>	<i>1,150,931</i>	<i>1,244,693</i>
XVI. Heat, light and power	128,540	142,032	147,024	252,907	257,487
Grand Total	947,899	1,063,852	1,193,590	1,403,838	1,502,180

(a) At end of year. Includes estimated value of rented premises.

(ii) *In Classes of Industry in States, 1962-63.* The following table gives particulars of the various classes of industry in each State.

FACTORIES: VALUE OF LAND AND BUILDINGS(a), 1962-63
(£'000)

Class of industry	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of non-metalliferous mine and quarry products	11,806	12,331	2,136	3,493	2,292	783	32,841
II. Bricks, pottery, glass, etc.	16,046	10,115	1,633	1,963	1,346	427	31,530
III. Chemicals, dyes, explosives, paints, oils, grease	49,388	37,481	2,170	4,820	5,259	1,396	100,514
IV. Industrial metals, machines, conveyances	258,048	181,927	28,967	50,714	17,336	13,378	550,370
V. Precious metals, jewellery, plate	2,307	1,998	191	619	208	71	5,394
VI. Textiles and textile goods (not dress)	20,444	35,918	1,051	1,872	588	1,604	61,477
VII. Skins and leather (not clothing or footwear)	4,936	4,347	409	720	341	43	10,796
VIII. Clothing (except knitted)	27,059	27,012	3,270	3,382	1,883	798	63,404
IX. Food, drink and tobacco	58,011	65,347	28,322	15,339	10,425	7,563	185,007
X. Sawmills, joinery, boxes, etc., wood turning and carving	16,794	13,445	4,376	4,020	2,196	1,985	42,816
XI. Furniture of wood, bedding, etc.	8,564	6,327	2,475	1,719	1,037	419	20,541
XII. Paper, stationery, printing, bookbinding, etc.	40,226	29,942	5,924	5,868	2,952	6,483	91,395
XIII. Rubber	6,423	7,593	2,316	1,355	623	394	18,704
XIV. Musical instruments	463	205	36	56	37	..	797
XV. Miscellaneous products	12,117	14,759	510	989	610	122	29,107
<i>Total, Classes I. to XV.</i>	<i>532,632</i>	<i>448,747</i>	<i>83,786</i>	<i>96,929</i>	<i>47,133</i>	<i>35,466</i>	<i>1,244,693</i>
XVI. Heat, light and power	157,135	27,055	12,956	9,553	4,295	46,493	257,487
Grand Total	689,767	475,802	96,742	106,482	51,428	81,959	1,502,180

(a) At end of year. 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 1958-59 to 1962-63.

FACTORIES: VALUE OF LAND AND BUILDINGS(a)

(£'000)

Year	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
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
1962-63	689,767	475,802	96,742	106,482	51,428	81,959	1,502,180

(a) At end of year. Includes estimated value of rented premises.

3. *Value of Plant and Machinery.*—(i) *Totals for Australia, 1958-59 to 1962-63.* The following table shews for Australia the approximate value of plant and machinery used in factories.

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

(£'000)

Class of industry	1958-59	1959-60	1960-61	1961-62	1962-63
I. Treatment of non-metalliferous mine and quarry products	35,099	49,658	68,426	74,431	76,793
II. Bricks, pottery, glass, etc.	14,564	16,286	20,076	23,944	31,817
III. Chemicals, dyes, explosives, paints, oils, grease	153,820	157,731	162,695	199,211	212,491
IV. Industrial metals, machines, conveyances	319,665	358,039	448,825	501,731	548,982
V. Precious metals, jewellery, plate	1,348	1,541	1,572	1,448	1,509
VI. Textiles and textile goods (not dress)	41,380	42,775	45,749	48,315	52,016
VII. Skins and leather (not clothing or footwear)	4,348	4,216	4,491	4,516	4,608
VIII. Clothing (except knitted)	16,407	17,244	18,659	19,167	21,503
IX. Food, drink and tobacco	138,940	147,262	159,600	168,620	181,270
X. Sawmills, joinery, boxes, etc., wood turning and carving	29,121	30,841	33,264	34,197	34,462
XI. Furniture of wood, bedding, etc.	4,130	4,369	4,544	4,774	4,982
XII. Paper, stationery, printing, book-binding, etc.	63,757	74,776	86,988	91,862	99,543
XIII. Rubber	10,333	12,240	12,990	13,074	14,278
XIV. Musical instruments	426	386	354	349	322
XV. Miscellaneous products	11,077	13,455	15,904	17,766	21,139
<i>Total, Classes I. to XV.</i>	<i>844,415</i>	<i>930,819</i>	<i>1,084,137</i>	<i>1,203,405</i>	<i>1,305,715</i>
XVI. Heat, light and power	263,970	289,245	307,353	321,382	336,313
Grand Total	1,108,385	1,220,064	1,391,490	1,524,787	1,642,028

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

(ii) *In Classes of Industry in States, 1962-63.* The following table shows the value of plant and machinery used in factories in each State during 1962-63 according to class of industry.

FACTORIES: VALUE OF PLANT AND MACHINERY(a), 1962-63

(£'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 ..	36,402	24,918	4,427	7,305	2,415	1,326	76,793
II. Bricks, pottery, glass, etc. ..	15,873	10,427	2,030	1,839	1,230	418	31,817
III. Chemicals, dyes, explosives, paints, oils, grease ..	93,237	74,441	3,001	18,312	20,558	2,942	212,491
IV. Industrial metals, machines, conveyances ..	316,784	127,871	20,254	53,815	10,714	19,544	548,982
V. Precious metals, jewellery, plate ..	645	579	59	163	49	14	1,509
VI. Textiles and textile goods (not dress) ..	16,742	28,814	1,329	2,019	477	2,635	52,016
VII. Skins and leather (not clothing or footwear) ..	2,050	1,512	413	429	180	24	4,608
VIII. Clothing (except knitted) ..	8,611	9,242	1,358	1,308	593	391	21,503
IX. Food, drink and tobacco ..	49,706	57,740	47,168	12,190	7,593	6,873	181,270
X. Sawmills, joinery, boxes, etc., wood turning and carving ..	12,527	7,889	5,524	4,151	2,100	2,271	34,462
XI. Furniture of wood, bedding, etc. ..	1,897	1,364	735	569	308	109	4,982
XII. Paper, stationery, printing, bookbinding, etc. ..	37,158	30,148	8,287	8,359	2,092	13,499	99,543
XIII. Rubber ..	4,321	7,928	945	678	273	133	14,278
XIV. Musical instruments ..	237	65	3	14	3	..	322
XV. Miscellaneous products ..	8,491	11,339	260	710	309	30	21,139
<i>Total, Classes I. to XV.</i>	<i>604,681</i>	<i>394,277</i>	<i>95,793</i>	<i>111,861</i>	<i>48,894</i>	<i>50,209</i>	<i>1,305,715</i>
XVI. Heat, light and power ..	114,510	106,067	44,499	34,943	17,424	18,870	336,313
Grand Total ..	719,191	500,344	140,292	146,804	66,318	69,079	1,642,028

(a) At end of year. 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 1958-59 to 1962-63.

FACTORIES: VALUE OF PLANT AND MACHINERY(a)

(£'000)

Year	N.S.W.	Vic.	Q'land	S. Aust.	W. Aust.	Tas.	Aust.
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
1962-63 ..	719,191	500,344	140,292	146,804	66,318	69,079	1,642,028

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

4. **Depreciation of Land and Buildings and Plant and Machinery, 1962-63.**—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, 1962-63**
(£'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	3,976	1,900	673	776	302	145	7,772
II. Bricks, pottery, glass, etc.	1,614	1,026	227	215	127	45	3,254
III. Chemicals, dyes, explosives, paints, oils, grease	10,242	9,709	321	1,070	2,929	398	24,669
IV. Industrial metals, machines, conveyances	32,863	15,760	2,272	6,407	1,250	1,646	60,198
V. Precious metals, jewellery, plate	64	49	6	14	4	1	138
VI. Textiles and textile goods (not dress)	1,886	3,939	185	188	51	424	6,673
VII. Skins and leather (not clothing or footwear)	211	158	48	59	27	3	506
VIII. Clothing (except knitted)	800	856	133	100	61	34	1,984
IX. Food, drink and tobacco	5,747	6,625	4,796	1,375	932	759	20,234
X. Sawmills, joinery, boxes, etc., wood turning and carving	1,325	790	668	387	300	356	3,826
XI. Furniture of wood, bedding, etc.	231	153	70	54	31	7	546
XII. Paper, stationery, printing, bookbinding, etc.	3,861	4,321	966	692	325	1,404	11,569
XIII. Rubber	940	1,375	172	179	53	30	2,749
XIV. Musical instruments	41	7	1	1	..	..	50
XV. Miscellaneous products	1,142	1,658	29	76	33	4	2,942
Total, Classes I. to XV.	64,943	48,326	10,567	11,593	6,425	5,256	147,110
XVI. Heat, light and power	12,657	5,055	2,849	1,446	1,399	793	24,199
Grand Total	77,600	53,381	13,416	13,039	7,824	6,049	171,309

5. Land and Buildings, Plant and Machinery—Values, Additions and Replacements, Depreciation, 1958-59 to 1962-63.—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)

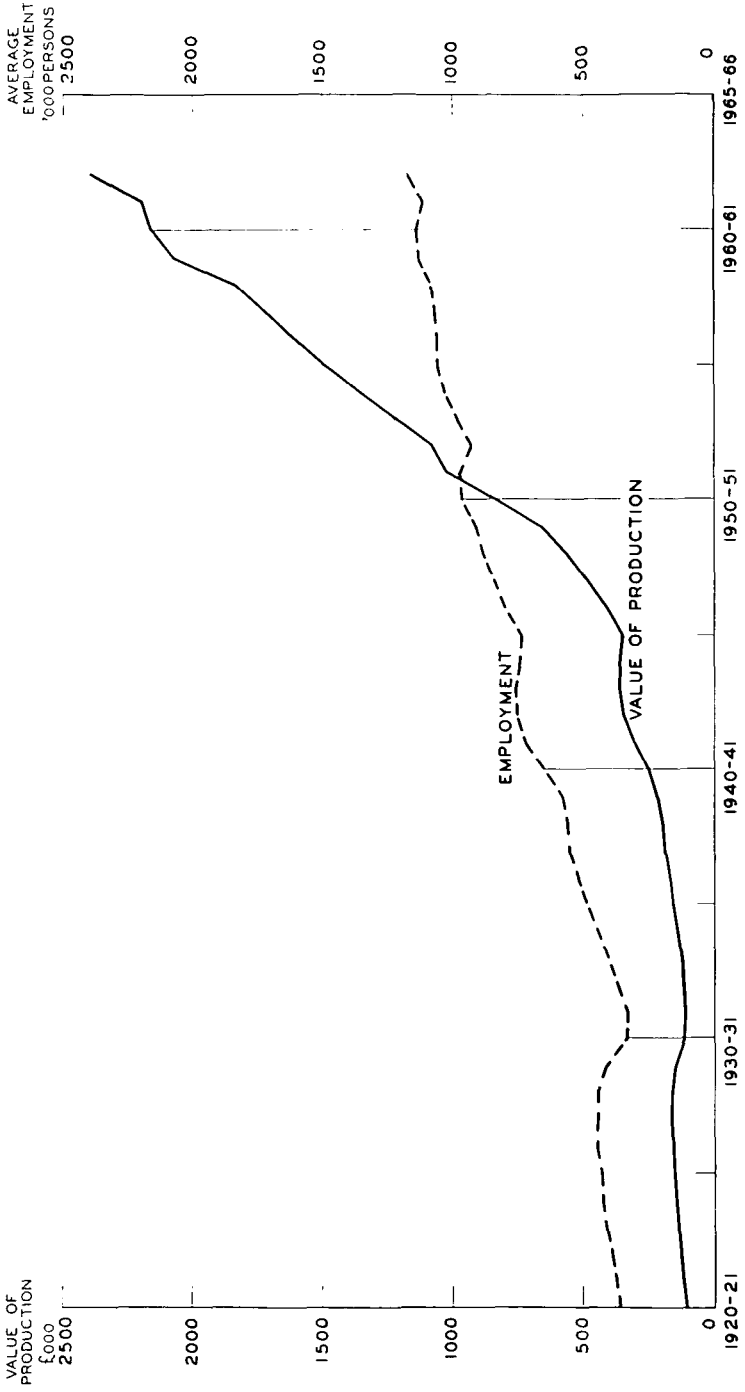
Year	Book values at 30th June(a)		Additions and replacements during year(a)		Depreciation allowed during year	
	Land and buildings	Plant and machinery	Land and buildings	Plant and machinery	Land and buildings	Plant and machinery
1958-59.. ..	947,899	1,108,385	94,823	197,566	13,000	96,752
1959-60.. ..	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
1962-63.. ..	1,502,180	1,642,028	95,645	282,804	19,398	151,911

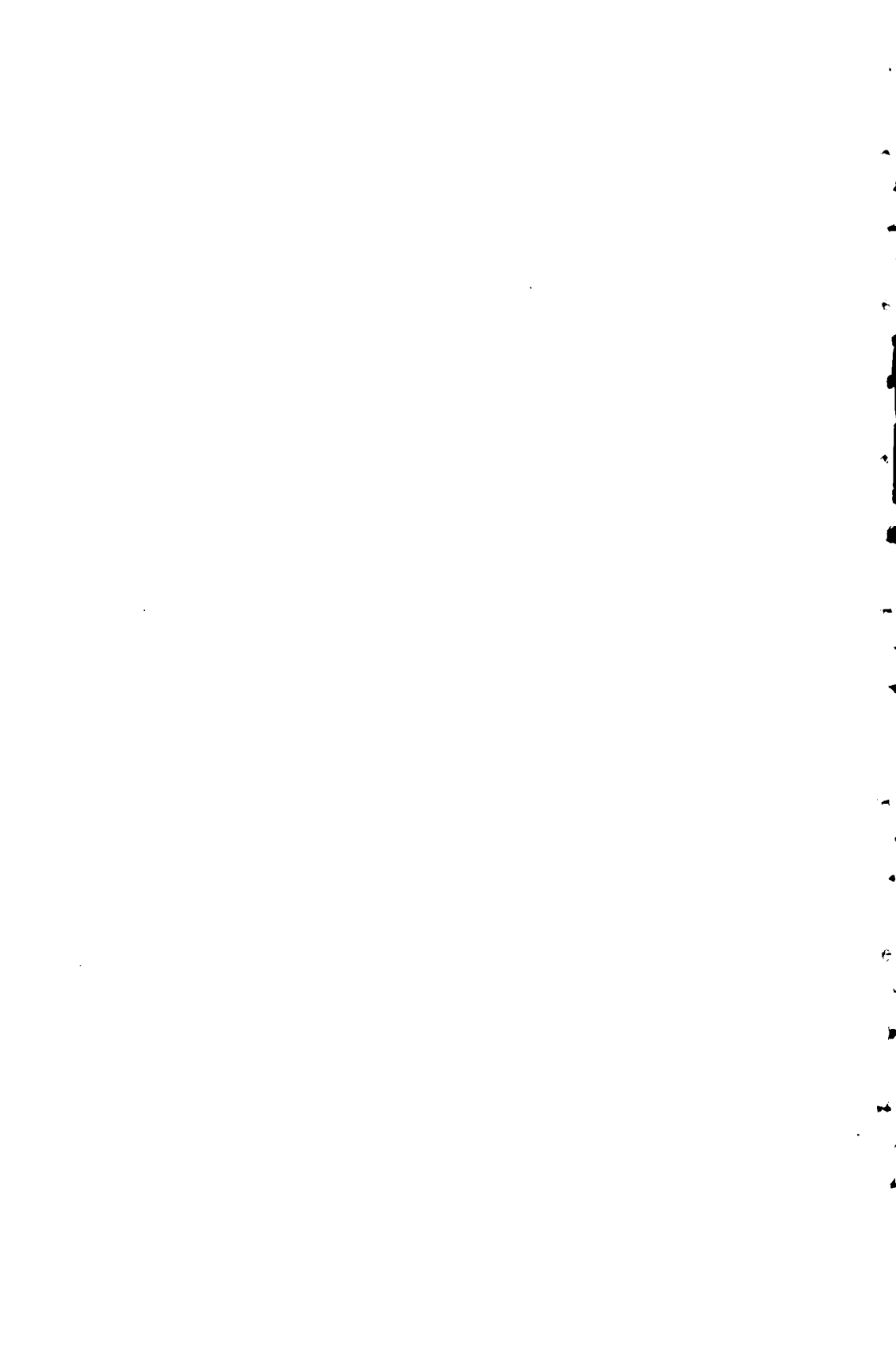
(a) Includes estimated value of rented premises, plant and machinery.

§ 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).

VALUE OF PRODUCTION AND AVERAGE EMPLOYMENT IN AUSTRALIAN FACTORIES, 1920-21 TO 1962-63





The following table shows the total recorded production of some of the principal articles manufactured in Australia during the years ended 30th June, 1961 to 1964. A more complete list, together with values, where available, is published in the bulletin *Secondary Industries, Part II.—Materials Used and Articles Produced in Factories.*

Preliminary figures for a restricted number of major commodities for the year 1964—65 are shown in the Appendix to this volume.

QUANTITY OF PRINCIPAL ARTICLES PRODUCED IN FACTORIES: AUSTRALIA

Article	1960-61	1961-62	1962-63	1963-64(a)
Abrasive cleansers and/or scourers—				
Soap based cwt.	62,509	61,287	61,569	54,959
Other "	145,043	125,640	145,605	173,255
Acid—				
Hydrochloric tons	3,662	3,779	4,295	4,388
Nitric "	16,986	17,885	19,836	19,752
Sulphuric "	1,122,193	1,136,227	1,256,456	1,429,049
Aerated and carbonated waters '000 gals.	80,983	83,223	87,335	91,623
Air conditioning equipment—				
Room air conditioners (refrigerated) .. no.	24,006	11,151	5,918	3,844
Room air coolers (evaporative coolers) .. "	40,620	15,231	3,620	1,811
Package unit air conditioners "	2,603	2,313	1,835	1,732
Asbestos cement building sheets '000 sq. yds.	29,759	26,862	27,800	30,937
Bacon and ham (cured weight) '000 lb.	72,938	77,743	82,183	83,602
Bags, leather, fibre, etc.—				
Handbags—				
Leather no.	777,283	643,991	534,486	(b)
Plastic "	1,809,128	1,746,582	2,082,222	(b)
Other "	108,117	158,133	276,526	(b)
Hessian and calico bags doz.	2,936,354	2,488,111	2,745,621	(b)
Suitcases, kitbags and trunks .. no.	1,334,594	1,217,784	1,419,945	(b)
All other (c) "	1,901,734	2,036,572	2,108,143	(b)
Baking powder lb.	584,824	761,969	754,159	(b)
Bath heaters—				
Electric no.	14,016	14,828	11,783	14,461
Gas "	17,186	18,006	14,143	11,967
Solid fuel "	23,775	20,987	19,967	17,342
Bathing suits doz.	223,487	191,698	209,753	199,564
Baths, C.I.P.E. no.	84,848	78,351	76,034	77,279
Batteries, wet cell type—				
Auto (S.L.I.) 6 Volts no.	604,419	555,334	599,751	581,104
12 Volts "	839,343	887,512	1,115,569	1,183,848
Radio, homelight, fencer .. no. of 2 Volt cells	207,709	185,884	192,146	186,559
Traction "	33,218	36,646	40,623	38,222
Other types "	24,894	17,404	18,357	14,126
Beer (excluding waste beer) '000 gals.	236,408	241,636	249,454	(d)269,972
Biscuits '000 lb.	181,324	179,959	185,238	197,912
Blankets '000	1,903	1,689	1,845	2,187
Boots and shoes (see Footwear).				
Bran (wheaten) tons (2,000 lb.)	250,372	236,272	225,185	251,046
Brandy proof gals.	1,166,978	1,177,943	1,128,997	(b)
Brassieres doz.	516,691	571,465	609,575	685,612
Bread (2 lb. loaf equivalent) '000	761,496	760,002	769,221	(b)
Breakfast food, cereal (ready to eat) .. cwt.	736,288	796,565	811,592	832,791
Bricks, clay '000	1,060,887	992,410	1,058,675	1,240,162
Brooms gross	21,060	23,411	21,727	(b)
Brushes (e) "	98,943	95,044	105,991	(b)
Butter tons	179,209	197,256	201,234	202,540
Candles cwt.	9,845	8,020	6,315	(b)
Cardigans, sweaters, etc. doz.	1,273,814	1,136,229	1,261,126	1,312,986
Caseln '000 lb.	25,178	30,356	36,236	37,351
Caustic soda tons	47,758	47,539	56,481	64,222
Cement, portland "	2,859,738	2,782,785	2,942,045	3,321,997
Cheese (green weight) "	46,804	55,252	59,520	57,704
Chlorine "	26,932	27,787	36,803	43,683
Chutney '000 pints	1,817	2,052	1,414	(b)
Cigarettes and cigars '000 lb.	42,976	42,539	45,346	45,999
Cloth (incl. mixtures)—				
Cotton (f) '000 sq. yds.	43,695	45,630	48,433	53,096
Woollen and worsted(g) "	26,466	24,991	28,254	23,600
Coke—				
Metallurgical tons	2,738,505	2,716,894	2,759,060	2,916,020
Other "	764,626	762,455	761,355	(b)
Confectionery—				
Chocolate '000 lb.	79,306	77,544	83,815	92,611
Other "	94,674	96,854	97,708	99,997

(a) Subject to revision. (b) Not yet available. (c) Excludes canvas waterbags. (d) As reported by Department of Customs and Excise; includes waste. (e) Excludes tooth brushes and industrial metal and bristle brushes. (f) Excludes towelling and tyre-cord fabric. (g) Excludes blanketing.

QUANTITY OF PRINCIPAL ARTICLES PRODUCED IN FACTORIES:
AUSTRALIA—continued

Article	1960-61	1961-62	1962-63	1963-64(a)
Copper, refined(c) tons	68,986	63,769	85,652	90,890
Coppers—				
Electric no.	15,437	13,188	10,385	(b)
Gas "	15,282	14,405	10,867	(b)
Inserts (all types) "	24,627	19,008	15,356	(b)
Corjials and syrups '000 gals.	5,289	5,415	6,259	6,999
Corsets and corselets doz.	217,278	237,555	274,353	295,696
Mustard powder '000 lb.	5,559	5,770	6,493	(b)
Cycles, assembled no.	64,384	55,065	59,168	62,571
Dentifrices (toothpaste) '000 lb.	8,180	8,687	8,309	(b)
Dynamos—				
Alternators no.	582	687	1,022	(b)
Generators "	5,381	3,865	3,359	(b)
Electricity mill. kWh	24,814	26,275	29,279	32,124
Engines—				
Diesel, other than marine no.	3,072	2,450	2,544	3,025
Petrol—				
Marine "	9,229	6,137	6,005	7,751
Other(d) "	183,731	203,764	268,405	285,673
Essences, flavouring—				
Domestic gals.	101,445	131,281	114,239	(b)
Industrial "	447,779	480,951	530,649	(b)
Face powder cwt.	2,180	2,279	2,214	(b)
Fans, electric no.	267,520	183,819	146,193	156,664
Fats, edible '000 lb.	66,710	75,934	60,225	(b)
Felt(e) sq. yds.	11,115,055	11,373,394	12,239,938	(b)
Fence posts and droppers tons	54,820	37,397	53,934	66,621
Fibrous plaster sheets '000 sq. yds.	17,176	15,332	15,830	15,363
Fish, canned (including fish loaf) '000 lb.	8,197	12,040	10,327	11,104
Floorboards—				
Australian timber '000 super. ft.	144,817	135,125	139,284	(b)
Imported timber "	1,178	733	776	(b)
Floor coverings—				
Soft '000 sq. yds.	7,481	7,067	8,801	10,301
Smooth surface "	6,214	6,445	7,566	8,284
Flour, self-raising cwt.	955,417	1,024,098	1,006,692	(b)
Wheaten(f) tons (2,000 lb.)	1,523,066	1,466,706	1,420,694	1,668,887
Footwear (not rubber)—				
Boots, shoes and sandals '000 pairs	25,215	25,995	26,606	28,179
Slippers "	10,308	9,827	10,662	11,177
Fruit juices, natural '000 gals.	4,864	6,755	7,710	(b)
Gas (town) mill. cubic ft.	50,684	50,247	51,351	52,594
Gloves—				
Dress—				
Leather doz. pairs	330	527	1,021	(g)
Other "	43,013	27,161	27,333	27,898
Work (excluding unsupported rubber) "	391,759	349,775	420,687	483,347
Golf clubs doz.	27,002	36,173	29,598	29,789
Handkerchiefs—				
Men's "	1,595,645	1,552,687	1,737,533	(b)
Women's "	1,685,630	1,455,530	1,355,133	(b)
Hats and caps (excluding berets)(h) "	605,161	621,541	613,147	(b)
Hose, rubber, garden '000 lin. ft.	2,179	2,152	2,543	(b)
Other "	11,840	10,644	14,858	(b)
Plastic, garden "	36,408	36,296	36,118	(b)
Hot water systems—				
Instantaneous no.	33,885	27,136	25,726	30,039
Storage "	87,880	89,757	106,586	130,042
Heat exchange type "	14,363	14,163	12,960	15,152
Ice tons	278,848	252,669	238,924	(b)
Ice cream '000 gals.	17,770	19,221	20,661	22,177
Ice cream mix powder '000 lb.	1,248	1,360	1,341	1,003
Infants' and invalids' milk based health beverages(i) lb.	36,415	38,137	38,710	45,284
Ink, printing, news inks "	13,620,686	11,611,223	12,396,605	(b)
Other "	10,122,811	12,205,625	12,407,377	(b)
Writing and drawing £	131,612	153,005	110,757	(b)
Iron and steel—				
Pig iron '000 tons	3,002	3,380	3,400	3,763
Steel ingots "	3,748	4,076	4,260	4,755
Blooms and slabs "	3,193	3,326	3,672	4,081

(a) Subject to revision. (b) Not yet available. (c) Primary origin only. (d) Excludes motor car, motor cycle, tractor and aero engines. (e) Includes underfelt. (f) Includes wheatmeal for baking and sharps. (g) Not available for publication. (h) Includes hoods and capelins. (i) Includes malted milk and milk sugar (lactose).

QUANTITY OF PRINCIPAL ARTICLES PRODUCED IN FACTORIES:
AUSTRALIA—continued

Article	1960-61	1961-62	1962-63	1963-64(a)
Irons, electric (hand, domestic) no.	286,140	305,374	354,636	362,157
Jams (including conserves, jellies, etc.) .. '000 lb.	83,080	98,313	92,175	88,355
Jelly crystals "	12,679	13,656	14,214	(b)
Lacquer, clear and colours gals.	1,366,721	1,309,553	1,442,937	1,513,850
Lard "	50,094	47,463	46,120	(b)
Lawn mowers—				
Petrol, rotary no.	196,017	200,712	217,570	198,921
Other types(c) "	21,029	8,962	15,158	16,475
Lead refined(d) tons	174,816	174,497	208,946	217,296
Leather—				
Dressed from hides, sold by measurement '000 sq. ft.	54,826	62,357		
Sold by weight '000 lb.	140	122		
Skins '000 sq. ft.	18,854	15,920		
Harness, skirt, belting, etc. '000 lb.	1,131	1,205		
Sole "	23,355	20,137		
Upholstery '000 sq. ft.	863	736		
Dressed or finished, chrome tanned (incl. retanned) '000 sq. ft.			77,887	(b)
Vegetable tanned by weight '000 lb.			20,838	(b)
Vegetable tanned by area '000 sq. ft.			3,449	(b)
Tanned or dressed skins with hair or wool retained '000 doz.			51	(b)
Lime, crushed tons	161,632	191,501	161,129	(b)
Hydrated "	62,317	85,126	76,401	(b)
Quick "	98,425	96,792	78,545	(b)
Lipstick lb.	92,446	92,404	86,318	(b)
Lubricating oil '000 gals.	13,973	13,316	12,242	(b)
Malt, barley '000 bus.	9,015	10,207	10,429	11,855
Margarine—				
Table '000 lb.	36,117	35,262	35,703	35,243
Other "	61,307	65,066	70,645	73,938
Mattresses, box spring no.	19,202	26,937	37,825	46,623
Woven wire "	371,629	402,651	408,866	479,847
Inner spring "	593,779	635,298	644,510	688,986
Other "	288,733	266,163	256,462	273,229
Meat, canned(e) '000 lb.	111,442	117,088	95,151	99,241
Meters—				
Electric (domestic) no.	280,147	245,246	235,753	254,884
Gas "	65,756	50,439	48,198	53,351
Water "	119,159	138,883	131,882	127,593
Milk, condensed, concentrated and evaporated—				
Full cream, sweetened '000 lb.	66,156	63,299	75,533	96,906
Skim and/or buttermilk " Unsweetened(f)	71,830	77,153	74,834	93,631
Milk powder—				
Full cream '000 lb.	10,044	12,004	19,203	24,231
Skim "	41,563	45,325	39,703	42,109
Buttermilk and whey "	82,772	84,441	94,176	95,985
Mops, floor gross	17,534	18,918	21,831	21,665
Motor bodies no.	16,116	17,449	18,024	(b)
Motor spirit (including benzol) '000 gals.	300,174	246,840	351,896	379,972
Motors, electric no.	1,149,591	1,212,864	1,262,767	1,358,499
Motors, electric no.	1,862,595	1,699,865	1,935,866	2,215,797
Mustard prepared for instant use .. lb.	301,322	368,695	353,943	(b)
Nails tons	25,168	22,186	25,447	25,106
Neckties doz.	492,268	516,975	524,622	(b)
Oatmeal and rolled oats for porridge .. cwt.	317,365	312,225	301,976	295,048
Paint—				
Ready-mixed, liquid and enamels .. '000 imp. gals.	12,729	13,290	13,846	15,262
Other than water, in paste form (heavy-bodied whites, etc.) '000 lb.	3,322	3,160	3,088	3,187
Water—				
Emulsion type '000 imp. gals.	2,492	2,778	3,077	3,351
Powder (including kalsomine) '000 lb.	2,736	2,540	2,226	2,432
Paper—				
Newsprint tons	88,039	89,758	92,245	92,039
Other paper "	215,804	213,921	255,751	291,099
Paperboard "	210,559	207,700	242,019	256,353
Peanut butter and paste '000 lb.	6,976	7,488	7,727	(b)
Perambulators, pushers and strollers .. no.	145,468	145,236	140,449	147,285
Pickles '000 pints	9,324	6,038	7,969	(b)
Pigments, tinting colours, all types .. gals.	38,897	53,859	66,306	(b)

(a) Subject to revision. (b) Not yet available. (c) Petrol cylinder, electric and hand.
(d) Includes lead content of lead alloy from primary sources, but excludes lead-silver bullion produced for export. (e) Excludes poultry and baby food. (f) Includes liquid ice-cream mix.

QUANTITY OF PRINCIPAL ARTICLES PRODUCED IN FACTORIES:
AUSTRALIA—continued

Article	1960-61	1961-62	1962-63	1963-64(a)
Pigments, Zinc oxide	cwt. 147,068	122,847	152,156	(b)
Other (synthetic or chemical)	" 409,884	425,762	472,310	(b)
Ground, natural earths	" 1,292,997	993,417	1,294,429	(b)
Plaster of Paris	tons 246,888	228,299	240,863	260,043
Plywood, $\frac{1}{4}$ inch basis	'000 sq. ft. 223,389	202,807	195,263	(b)
Pollard	tons (2,000 lb.) 325,726	315,381	305,923	347,251
Preserves—				
Fruit, canned or bottled	'000 lb. 307,866	450,484	431,739	468,395
Pulp and puree	cwt. 135,546	139,478	140,974	(b)
Vegetables, canned or bottled	'000 lb. 99,728	133,597	132,620	142,890
Quick frozen	" 21,046	47,232	47,834	49,754
Pyjamas—				
Men's and boys' (suits only)	doz. 342,631	361,459	406,946	431,081
Women's and girls' (incl. nightdresses)	" 552,835	562,577	626,441	646,289
Racquet frames (all types)	" 12,673	12,538	15,034	14,466
Records (phonograph)—				
Single play (78 and 45 r.p.m.)	'000 3,210	3,018	3,629	3,855
Extended play	" 1,245	755	898	1,121
Long play	" 2,925	3,422	3,660	4,075
Refrigerators, domestic	no. 219,506	209,415	206,349	207,070
Resins, plastic and synthetic	'000 cwt. 1,382	1,672	1,833	1,942
Rice (cleaned)(c)	cwt. 1,744,310	1,537,899	1,692,821	(b)
Ropes and cables (excluding wire)	" 141,396	139,789	143,490	147,181
Rugs	'000 183	161	198	169
Sauce	'000 pints 36,840	34,257	33,153	(b)
Semolina	tons (2,000 lb.) 11,453	11,385	10,065	12,757
Shirts (men's and boys')	doz. 1,814,274	1,619,935	1,929,374	1,956,024
Sink heaters	no. 15,901	15,195	13,398	12,998
Sinks, stainless steel	" 197,525	172,380	173,565	194,714
Soap and detergents—				
Soap, personal toilet	cwt. 403,511	400,276	419,845	427,191
Household	" 711,127	683,829	699,551	707,389
Industrial (incl. wool scouring)(d)	" 125,382	92,224	90,383	78,452
Extracts and powders, household	" 594,035	562,196	543,858	524,103
Industrial	" 91,638	91,923	94,797	96,777
Detergents, personal toilet	" 13,664	18,485	18,115	22,876
Household	" 259,313	311,387	379,080	413,267
Industrial	" 40,437	37,707	45,869	53,949
Extracts and powders—				
Household	" 425,599	473,747	477,300	543,073
Industrial	" 73,804	77,500	88,796	91,509
Socks and stockings—				
Men's and youths'	'000 doz. pairs 1,359	1,315	1,643	1,607
Women's and maids'	" 2,834	3,052	3,663	3,979
Children's and infants'	" 840	902	899	934
Soup, canned	'000 pints 49,071	44,650	48,063	(b)
Dry-mix	'000 lb. 6,217	6,267	7,621	(b)
Spades and shovels	doz. 32,163	36,670	33,067	(b)
Starch	cwt. 645,925	742,200	821,687	901,135
Stearine (stearic acid)	" 72,331	88,269	89,736	88,363
Steel, structural, fabricated	tons 380,073	401,440	421,714	(b)
Stoves, ovens and ranges—				
Domestic cooking—				
Electric(e)	no. 107,902	123,380	147,732	175,842
Gas	" 92,306	87,326	82,376	103,402
Solid fuel	" 31,722	28,712	27,149	28,081
Sugar, raw (94 net titre)	tons 1,382,611	1,382,841	1,849,808	1,608,324
Refined	" 524,784	553,472	563,765	575,127
Sulphate of ammonia	" 98,988	103,918	93,675	82,474
Superphosphate(f)	" 2,530,884	2,591,379	2,895,099	3,346,903
Talcum powder	cwt. 49,751	55,447	58,670	(b)
Tallow—				
Edible (including dripping)	" 902,064	1,309,258	1,483,081	(b)
Inedible	" 1,979,671	2,808,780	3,285,350	(b)
Television sets	no. 315,966	289,493	295,694	271,110
Tiles, roofing—				
Cement	'000 52,654	53,220	60,482	76,732
Terracotta	" 55,185	50,048	51,298	54,158
Timber—				
From native logs—				
Hardwood	'000 super. ft. 1,152,995	1,063,086	1,088,197	} 1,463,000
Softwood	" 264,838	289,117	322,370	
From imported logs—				
Hardwood	" 35,330	21,249	22,255	(b)
Softwood	" 2,999	6,685	9,694	(b)
Toasters, electric (domestic)	no. 235,158	216,923	289,063	305,065
Tobacco	'000 lb. 15,259	13,011	11,553	10,188
Tomato juice	gals. 2,082,245	2,354,924	2,353,029	1,043,663
Paste and puree	'000 pints 14,067	12,357	7,709	(b)

(a) Subject to revision. (b) Not yet available. (c) Polished, unpolished or broken.
(d) Includes industrial flakes and chips. (e) Includes stovettes, cookers, etc. (f) Source—
Department of Primary Industry.

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

Article	1960-61	1961-62	1962-63	1963-64(a)
Tomato Pulp	cwt. 1,093,841	591,219	449,767	(b)
Towels	doz. 695,241	762,400	729,680	823,653
Tractors	no. 8,609	8,542	10,779	(b)
Transformers, chokes and ballasts—				
For distribution of power and light, etc.	75,730	18,057	18,788	(b)
For fluorescent lights and neon signs	2,153,124	1,766,410	2,477,253	(b)
For radio receivers, record players, etc.	1,174,079	1,085,208	1,272,258	(b)
For television receivers	822,563	1,057,277	947,925	(b)
For other purposes	171,865	212,286	302,403	(b)
Tubes, rubber	3,036,255	2,834,781	3,261,681	3,400,863
Twine (all types)	cwt. 213,278	142,142	150,972	189,091
Tyres, pneumatic—				
Motor car and motor cycle	no. 3,654,861	3,468,724	4,319,657	4,412,293
Truck and omnibus	470,244	354,124	465,617	517,227
Aero and tractor	199,996	179,401	228,131	260,511
Umbrellas	640,643	694,128	736,780	(b)
Underwear (men's, women's, children's) .. '000 doz.	5,408	5,518	5,870	(b)
Vacuum cleaners (domestic)	no. 109,753	114,189	127,348	140,708
Wash basins—				
C.I.P.E.	no. 96,800	82,794	77,717	72,504
Earthenware	67,596	81,095	97,404	110,756
Pressed steel	34,461	32,687	37,333	45,567
Washing machines, household, electric	195,541	220,102	215,844	224,308
Weatherboards—				
Australian timber	'000 super. ft. 26,743	25,146	20,123	(b)
Imported timber	930	1,378	3,093	(b)
Wheatmeal(c)	tons (2,000 lb.) 114,140	102,285	97,203	111,198
Wheelbarrows (metal)	no. 81,988	85,292	87,642	(b)
Wine, beverage—				
Fortified	'000 gals. 9,865	11,077	8,761	10,839
Unfortified	5,752	6,897	6,091	7,925
Wireless and television cabinets	no. 533,022	482,887	440,843	433,066
Wireless receiving sets (incl. radiograms)	454,786	367,778	500,873	466,457
Wool, scoured or carbonized	'000 lb. 158,198	168,279	171,175	160,303
Wool tops	40,781	46,031	47,957	50,878
Yarn(d)—				
Cotton	42,806	43,222	46,693	55,183
Woollen	25,732	23,436	26,662	28,290
Wool worsted	23,347	22,519	25,892	23,782
Zinc oxide (see pigments)				
Zinc, refined(e)	tons 125,936	153,742	175,850	186,386

(a) Subject to revision. (b) Not yet available. (c) Excludes wheatmeal for baking included with flour; includes wheatmeal for porridge and stock food. (d) Includes mixtures predominantly the fibre mentioned. (e) Primary origin only—includes small quantities of zinc dust.

§ 11. Individual Industries

1. **General.**—Particulars on pages 149-76, §§ 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.

In order to make room for a wider range of industries, tables showing particulars for each State which were included in previous issues of the Year Book have been discontinued. These details are available from publications issued by the Deputy Commonwealth Statistician in each State and, for selected industries, in the Central Office series *Manufacturing Industries*.

Details of some of the principal articles produced in factories in Australia during the years 1960-61 to 1963-64 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 1. Particulars for the three industries under this general heading are shown for 1962-63 and for the years 1958-59 to 1962-63 in the following table.

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

AUSTRALIA, 1962-63

Particulars	Portland cement	Asbestos cement sheets and mouldings	Other cement goods	Total
Number of factories	16	16	607	639
Number of persons employed	3,130	2,963	7,484	13,577
Salaries and wages paid	£'000 3,959	3,567	9,043	16,569
Value of power, fuel, etc., used	£'000 5,264	584	583	6,431
Value of materials used	£'000 7,984	6,212	30,417	44,613
Value of production	£'000 12,481	8,045	19,085	39,611
Total value of output	£'000 25,729	14,841	50,085	90,655
Value of land and buildings	£'000 4,951	4,082	7,814	16,847
Value of plant and machinery	£'000 22,870	4,596	9,614	37,080
Horse-power of engines ordinarily in use h.p.	104,540	23,934	33,365	161,839

AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	499	523	577	600	639
Number of persons employed	11,392	12,054	12,998	12,965	13,577
Salaries and wages paid	£'000 11,648	13,431	15,122	15,451	16,569
Value of power, fuel, etc., used	£'000 5,265	5,616	5,968	6,053	6,431
Value of materials used	£'000 28,739	33,394	40,326	40,493	44,613
Value of production	£'000 26,178	30,785	34,905	35,530	39,611
Total value of output	£'000 60,182	69,795	81,199	82,076	90,655
Value of land and buildings	£'000 8,308	10,614	13,549	15,772	16,847
Value of plant and machinery	£'000 21,754	24,274	31,683	35,123	37,080
Horse-power of engines ordinarily in use	h.p. 125,082	132,710	145,903	155,925	161,839

3. Bricks, Tiles, Pottery and Earthenware.—The following table shows particulars of this industry for the years 1958-59 to 1962-63.

BRICKS, TILES, POTTERY AND EARTHENWARE: AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	434	437	434	427	419
Number of persons employed	14,276	14,980	15,012	14,305	14,496
Salaries and wages paid	£'000 14,252	15,916	16,663	15,999	16,538
Value of power, fuel, etc., used	£'000 4,983	5,312	5,509	5,366	5,812
Value of materials used	£'000 6,665	7,856	8,495	8,424	8,898
Value of production	£'000 22,934	26,384	27,244	26,083	27,489
Total value of output	£'000 34,582	39,552	41,248	39,873	42,199
Value of land and buildings	£'000 9,616	11,005	12,506	13,151	15,737
Value of plant and machinery	£'000 10,509	11,688	14,376	16,792	21,095
Horse-power of engines ordinarily in use	h.p. 93,403	97,471	101,389	108,491	118,673

4. Glass and Glass Bottles.—The following table shows particulars of this industry for Australia for the years 1958-59 to 1962-63.

GLASS AND GLASS BOTTLES: AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	208	229	242	248	255
Number of persons employed	8,659	9,189	9,444	9,651	10,510
Salaries and wages paid	£'000 7,859	9,361	9,992	10,688	11,585
Value of power, fuel, etc., used	£'000 2,775	2,899	2,945	2,697	2,788
Value of materials used	£'000 13,794	16,705	16,263	16,268	17,961
Value of production	£'000 15,225	17,892	19,238	20,212	22,239
Total value of output	£'000 31,794	37,495	38,444	39,177	42,988
Value of land and buildings	£'000 6,784	8,514	9,626	12,826	15,677
Value of plant and machinery	£'000 4,024	4,565	5,665	7,137	10,694
Horse-power of engines ordinarily in use	h.p. 27,011	33,565	32,058	35,969	40,627

5. **Industrial and Heavy Chemicals.**—The following table shows particulars of the industrial and heavy chemical industry for Australia for the years 1958–59 to 1962–63. 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):
AUSTRALIA**

Particulars	1958–59	1959–60	1960–61	1961–62	1962–63
Number of factories	302	287	297	308	320
Number of persons employed	15,813	14,423	13,945	13,746	14,165
Salaries and wages paid	£'000 17,242	17,146	17,475	17,724	18,783
Value of power, fuel, etc., used	£'000 4,616	4,874	4,652	6,015	6,652
Value of materials used	£'000 46,604	46,212	43,810	50,586	58,724
Value of production	£'000 42,513	43,497	41,066	46,627	55,800
Total value of output	£'000 93,733	94,583	89,528	103,228	121,176
Value of land and buildings	£'000 22,948	24,657	28,509	34,059	34,337
Value of plant and machinery	£'000 38,137	41,326	44,518	70,576	68,063
Horse-power of engines ordinarily in use	h.p. 130,928	117,311	124,629	165,055	174,380

6. **Pharmaceutical and Toilet Preparations.**—The following table shows particulars of the pharmaceutical and toilet preparations industry for Australia for the years 1958–59 to 1962–63. The bulk of the output of this industry comes from New South Wales and Victoria.

PHARMACEUTICAL AND TOILET PREPARATIONS: AUSTRALIA

Particulars	1958–59	1959–60	1960–61	1961–62	1962–63
Number of factories	210	216	212	211	209
Number of persons employed	6,976	7,791	7,805	7,910	8,058
Salaries and wages paid	£'000 5,886	7,074	7,448	7,864	8,470
Value of power, fuel, etc., used	£'000 754	810	842	797	925
Value of materials used	£'000 19,575	23,311	23,630	25,585	27,588
Value of production	£'000 23,130	28,985	32,155	33,129	31,998
Total value of output	£'000 43,459	53,106	56,627	59,511	60,511
Value of land and buildings	£'000 10,750	11,528	13,431	14,544	17,087
Value of plant and machinery	£'000 4,519	5,347	6,003	5,732	6,319
Horse-power of engines ordinarily in use h.p.	16,702	18,084	19,237	20,322	22,772

7. **White Lead, Paints and Varnish.**—The following table shows particulars of this industry for Australia for the years 1958–59 to 1962–63.

WHITE LEAD, PAINTS AND VARNISH: AUSTRALIA

Particulars	1958–59	1959–60	1960–61	1961–62	1962–63
Number of factories	188	181	182	188	184
Number of persons employed	5,532	5,475	5,208	5,096	5,144
Salaries and wages paid	£'000 5,448	5,710	5,746	5,669	5,830
Value of power, fuel, etc., used	£'000 419	416	393	404	436
Value of materials used	£'000 25,448	26,892	24,924	26,762	28,732
Value of production	£'000 13,184	15,446	15,407	15,467	17,317
Total value of output	£'000 39,051	42,754	40,724	42,633	46,485
Value of land and buildings	£'000 6,327	6,942	7,736	7,745	8,400
Value of plant and machinery	£'000 3,696	4,219	4,177	5,440	5,392
Horse-power of engines ordinarily in use h.p.	25,093	25,879	27,952	28,780	29,262

8. **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 Australia for the years 1958-59 to 1962-63. Victoria, New South Wales, and Western Australia produce most of the refined mineral oil and by-products.

MINERAL OILS: AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	70	70	76	77	79
Number of persons employed	4,888	4,972	5,020	5,028	5,044
Salaries and wages paid £'000	5,990	6,514	7,062	7,356	7,745
Value of power, fuel, etc., used £'000	7,531	7,848	7,537	7,990	8,795
Value of materials used £'000	123,526	133,417	136,503	136,357	143,504
Value of production £'000	39,149	43,724	44,405	36,338	47,786
Total value of output £'000	170,206	184,989	188,445	180,685	200,085
Value of land and buildings £'000	19,154	18,261	18,493	19,517	20,122
Value of plant and machinery £'000	85,504	84,954	86,755	95,475	109,194
Horse-power of engines ordinarily in use h.p.	106,771	108,231	132,640	145,383	183,935

9. **Soap and Candle Factories.**—The following table shows particulars of factories in the soap and candle industry for Australia for the years 1958-59 to 1962-63. New South Wales and Victoria are the major centres of production in this industry.

SOAP AND CANDLES: AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	89	(a) 120	119	117	117
Number of persons employed	2,929	3,210	3,234	3,290	3,340
Salaries and wages paid £'000	2,822	3,220	3,538	3,568	3,771
Value of power, fuel, etc., used £'000	387	383	430	420	419
Value of materials used £'000	15,253	15,835	16,279	16,138	16,438
Value of production £'000	11,941	14,131	15,210	15,003	16,377
Total value of output £'000	27,581	30,349	31,919	31,561	33,234
Value of land and buildings £'000	2,039	2,652	2,965	3,000	2,982
Value of plant and machinery £'000	3,118	3,054	3,220	3,440	3,218
Horse-power of engines ordinarily in use h.p.	12,632	13,689	14,452	14,495	16,256

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

10. **Chemical Fertilizers.**—The following table shows particulars of the factories engaged in the manufacture of chemical fertilizers in Australia for the years 1958-59 to 1962-63.

CHEMICAL FERTILIZERS: AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	48	49	44	47	48
Number of persons employed	4,959	4,763	4,567	4,525	4,432
Salaries and wages paid £'000	5,207	5,369	5,475	5,469	5,508
Value of power, fuel, etc., used £'000	995	994	1,001	970	920
Value of materials used £'000	25,756	26,348	26,930	27,718	29,680
Value of production £'000	11,440	11,520	12,325	12,334	12,458
Total value of output £'000	38,191	38,862	40,256	41,022	43,058
Value of land and buildings £'000	7,633	7,508	6,072	6,280	6,356
Value of plant and machinery £'000	10,808	10,257	8,651	8,734	9,380
Horse-power of engines ordinarily in use h.p.	57,587	58,519	53,194	55,089	55,894

11. **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 engineering 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 Australia for the years 1958-59 to 1962-63 for the group Smelting, converting, refining and rolling of iron and steel. The greater part of the output of this industry comes from New South Wales, with Western Australia, Victoria, and South Australia producing nearly all the remainder.

**SMELTING, CONVERTING, REFINING AND ROLLING OF IRON AND STEEL:
AUSTRALIA**

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	34	35	34	34	33
Number of persons employed	29,982	31,825	33,804	34,504	35,605
Salaries and wages paid	£'000 34,220	38,793	45,721	44,237	47,545
Value of power, fuel, etc., used	£'000 23,539	30,202	33,929	33,953	36,774
Value of materials used	£'000 153,563	162,677	174,276	163,778	184,437
Value of production	£'000 78,154	86,256	100,618	97,653	108,252
Total value of output	£'000 255,256	279,135	308,823	295,384	329,463
Value of land and buildings	£'000 11,400	14,417	31,660	36,972	39,380
Value of plant and machinery	£'000 82,451	95,110	147,676	180,428	194,903
Horse-power of engines ordinarily in use h.p.	633,180	690,291	757,451	778,470	872,050

Particulars of the production of pig-iron and steel will be found on page 178 and in Chapter XXVI. Mineral Industry.

(iii) *Foundries (Ferrous).* Particulars covering those industries classified as founding of iron and steel are shown for Australia for the years 1958-59 to 1962-63 in the following table. Tasmanian foundry output is relatively small and details are included in "Other engineering" (see p. 186).

FOUNDRIES—FERROUS: AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	346	312	245	239	231
Number of persons employed	7,376	7,853	7,797	7,183	7,711
Salaries and wages paid	£'000 7,293	8,504	8,776	8,089	8,970
Value of power, fuel, etc., used	£'000 955	1,121	1,114	1,016	1,160
Value of materials used	£'000 6,687	7,905	8,654	7,398	8,978
Value of production	£'000 10,615	12,325	12,756	11,243	12,485
Total value of output	£'000 18,257	21,351	22,524	19,657	22,623
Value of land and buildings	£'000 3,912	4,866	5,128	5,040	5,474
Value of plant and machinery	£'000 2,963	3,791	3,727	3,579	3,730
Horse-power of engines ordinarily in use h.p.	31,612	32,455	31,471	31,506	32,617

(iv) *Plant, Equipment and Machinery (including Machine Tools).* The next table shows particulars for this group for Australia for the years 1958-59 to 1962-63.

**PLANT, EQUIPMENT AND MACHINERY (INCLUDING MACHINE TOOLS):
AUSTRALIA**

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	2,345	2,518	2,587	2,744	2,857
Number of persons employed	70,905	76,096	77,733	77,464	80,758
Salaries and wages paid	£'000 70,371	81,885	86,669	86,794	93,146
Value of power, fuel, etc., used	£'000 3,161	3,574	3,789	3,759	4,115
Value of materials used	£'000 122,408	144,405	152,329	148,464	167,358
Value of production	£'000 115,472	138,402	143,925	142,741	155,671
Total value of output	£'000 241,041	286,381	300,043	294,964	327,144
Value of land and buildings	£'000 49,927	56,116	66,337	74,008	81,407
Value of plant and machinery	£'000 36,400	39,407	43,122	46,178	49,132
Horse-power of engines ordinarily in use h.p.	250,580	267,497	278,138	293,577	303,606

(v) *Other Engineering.* Details covering jobbing and general engineering works not elsewhere included are shown for Australia for the years 1958-59 to 1962-63 in the following table.

OTHER ENGINEERING: AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	2,220	2,318	2,439	2,457	2,472
Number of persons employed	23,467	25,780	27,997	27,897	28,997
Salaries and wages paid £'000	21,682	23,858	28,794	29,561	31,732
Value of power, fuel, etc., used £'000	806	1,018	1,048	1,111	1,249
Value of materials used £'000	26,059	31,110	35,141	35,958	41,099
Value of production £'000	34,829	42,264	47,369	47,192	52,219
Total value of output £'000	61,694	74,392	83,558	84,261	94,567
Value of land and buildings £'000	16,655	19,233	24,015	26,423	28,187
Value of plant and machinery £'000	12,201	13,782	16,441	17,590	18,300
Horse-power of engines ordinarily in use h.p.	76,109	89,374	93,019	101,245	107,735

12. *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, in Australia for the years 1958-59 to 1962-63. Ore dressing and elementary smelting of metallic minerals (e.g. in the case of gold), when these are carried out in an associated plant at or near the mine, are included in the mineral industry (*see* Chapter XXVI. Mineral Industry).

EXTRACTING AND REFINING OF NON-FERROUS METALS; ALLOYS:
AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	68	71	69	62	64
Number of persons employed	7,269	7,438	7,545	7,974	8,277
Salaries and wages paid £'000	8,880	9,535	9,842	10,642	11,452
Value of power, fuel, etc., used £'000	4,724	4,833	4,703	5,281	6,665
Value of materials used £'000	61,060	64,376	74,673	71,691	97,143
Value of production £'000	18,129	20,502	21,984	21,714	26,045
Total value of output £'000	83,913	89,711	101,360	98,686	129,853
Value of land and buildings £'000	7,326	10,105	10,724	11,956	14,026
Value of plant and machinery £'000	15,764	21,495	23,918	31,950	39,753
Horse-power of engines ordinarily in use h.p.	76,680	86,776	90,216	94,081	93,482

13. *Electrical Machinery, Cables and Apparatus.*—The following table shows particulars of this industry for Australia for the years 1958-59 to 1962-63. New South Wales factories account for almost two-thirds of the output of this industry.

ELECTRICAL MACHINERY, CABLES AND APPARATUS: AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	1,213	1,360	1,339	1,349	1,404
Number of persons employed	50,069	53,089	54,072	52,918	55,692
Salaries and wages paid £'000	46,979	54,011	57,179	57,020	61,556
Value of power, fuel, etc. used £'000	2,493	2,685	2,821	2,835	3,077
Value of materials used £'000	94,964	108,712	110,680	112,737	116,070
Value of production £'000	76,808	90,199	93,897	93,017	100,904
Total value of output £'000	174,265	201,596	207,398	208,589	220,051
Value of land and buildings £'000	32,958	38,679	42,775	46,007	51,663
Value of plant and machinery £'000	23,627	27,602	26,830	27,728	28,743
Horse-power of engines ordinarily in use h.p.	111,980	118,299	122,609	128,326	134,043

14. **Railway and Tramway Workshops (Government and Local Authority).**—The railway and tramway workshops, which form an important part of Class IV., are owned chiefly by State governments and local authorities. *Workshops (fourteen in 1962-63) controlled by non-public bodies are not included in the figures below.*

TRAMCARS AND RAILWAY ROLLING STOCK(a): AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	139	129	126	122	122
Number of persons employed	37,993	36,746	35,323	35,466	34,653
Salaries and wages paid	£'000 33,599	34,208	34,795	35,995	35,332
Value of power, fuel, etc., used	£'000 1,080	1,112	1,097	1,085	1,072
Value of materials used	£'000 19,563	19,414	19,390	19,624	19,685
Value of production	£'000 41,557	41,473	42,889	43,685	42,747
Total value of output	£'000 62,200	61,999	63,376	64,394	63,504
Value of land and buildings	£'000 12,374	12,761	13,681	14,654	14,679
Value of plant and machinery	£'000 16,547	17,174	17,657	17,699	18,583
Horse-power of engines ordinarily in use h.p.	115,162	116,443	116,063	115,416	116,027

(a) Government and local authority only.

15. **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 1962-63 for each branch of industry associated with the motor trade of Australia.

MOTOR VEHICLES—CONSTRUCTION, ASSEMBLY, REPAIRS, ETC.: AUSTRALIA 1962-63

Particulars	Construction and assembly	Repairs	Motor bodies (a)	Motor accessories	Total
Number of factories	45	11,076	2,199	303	13,623
Number of persons employed	22,693	65,857	30,948	16,081	135,579
Salaries and wages paid	£'000 28,954	57,526	35,918	18,147	140,545
Value of power, fuel, etc., used	£'000 2,274	1,901	1,483	1,234	6,892
Value of materials used	£'000 68,105	63,016	85,208	29,362	245,691
Value of production	£'000 47,526	91,848	53,568	31,111	224,053
Total value of output	£'000 117,905	156,765	140,259	61,707	476,636
Value of land and buildings	£'000 29,571	86,966	30,414	13,986	160,937
Value of plant and machinery	£'000 24,159	14,999	24,786	15,292	79,236
Horse-power of engines ordinarily in use h.p.	87,605	78,492	85,140	59,281	310,518

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

In the next table, similar details are shown for Australia for these industries combined for the years 1958-59 to 1962-63. Victoria, New South Wales, and South Australia account for about four-fifths of the output of these industries. Most of the output of the other States is from repair work.

MOTOR VEHICLES—CONSTRUCTION, ASSEMBLY, REPAIRS, ETC.: AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	11,354	12,089	12,757	13,135	13,623
Number of persons employed	113,200	120,561	127,274	121,409	135,579
Salaries and wages paid	£'000 97,078	114,185	124,386	120,294	140,545
Value of power, fuel, etc., used	£'000 4,603	5,123	5,893	5,878	6,892
Value of materials used	£'000 149,577	186,330	201,777	187,547	245,691
Value of production	£'000 161,569	183,365	198,000	195,610	224,053
Total value of output	£'000 315,749	374,818	405,670	389,035	476,636
Value of land and buildings	£'000 99,734	114,487	128,985	145,397	160,937
Value of plant and machinery	£'000 47,742	51,848	66,027	69,644	79,236
Horse-power of engines ordinarily in use h.p.	223,901	234,930	266,266	276,293	310,518

16. **Ship and Boatbuilding and Repairing, Marine Engineering.**—The following table shows particulars of this industry for Australia for the years 1958–59 to 1962–63, and includes Government factories as well as those owned privately and by municipal authorities. About half the output of this industry comes from New South Wales shipyards, with Victoria and South Australia accounting for the greater part of the balance.

**SHIP AND BOAT BUILDING AND REPAIRING, MARINE ENGINEERING:
AUSTRALIA**

Particulars	1958–59	1959–60	1960–61	1961–62	1962–63
Number of factories	274	297	318	318	353
Number of persons employed	14,779	13,786	14,155	14,293	14,218
Salaries and wages paid	£'000 14,502	14,672	16,114	16,464	16,683
Value of power, fuel, etc., used	£'000 395	376	400	431	437
Value of materials used	£'000 8,124	9,597	10,980	11,667	14,053
Value of production	£'000 17,672	18,142	19,710	19,965	20,198
Total value of output	£'000 26,191	28,115	31,090	32,063	34,688
Value of land and buildings	£ 000 5,284	5,934	6,470	6,248	6,654
Value of plant and machinery	£'000 4,604	5,087	5,297	5,341	5,629
Horse-power of engines ordinarily in use	h.p. 83,216	75,827	75,300	75,568	77,691

17. **Agricultural Machines and Implements.**—The following table shows details of establishments classified as agricultural implement works in Australia for the years 1958–59 to 1962–63. Victorian factories produce more than half the output of this industry.

**AGRICULTURAL MACHINES AND IMPLEMENTS:
AUSTRALIA**

Particulars	1958–59	1959–60	1960–61	1961–62	1962–63
Number of factories	358	404	450	497	531
Number of persons employed	10,727	11,359	11,307	11,317	11,785
Salaries and wages paid	£'000 10,178	11,316	11,436	11,450	12,805
Value of power, fuel, etc., used	£'000 674	722	737	768	816
Value of materials used	£'000 14,162	17,607	17,324	18,244	19,456
Value of production	£'000 15,426	16,847	16,870	18,162	19,816
Total value of output	£'000 30,262	35,176	34,931	37,174	40,088
Value of land and buildings	£'000 6,666	6,857	8,219	9,587	10,066
Value of plant and machinery	£'000 4,418	4,725	5,245	5,442	5,721
Horse-power of engines ordinarily in use	h.p. 39,201	42,922	39,648	41,339	43,226

18. **Non-ferrous Metals; Rolling and Extrusion.**—The following table shows particulars of this industry for Australia for the years 1958–59 to 1962–63.

NON-FERROUS METALS—ROLLING AND EXTRUSION: AUSTRALIA

Particulars	1958–59	1959–60	1960–61	1961–62	1962–63
Number of factories	16	21	25	30	30
Number of persons employed	5,207	5,811	6,304	6,566	6,751
Salaries and wages paid	£'000 6,081	7,416	7,842	8,468	8,925
Value of power, fuel, etc., used	£'000 1,199	1,260	1,288	1,566	1,581
Value of materials used	£'000 32,505	40,426	36,644	40,121	43,491
Value of production	£'000 11,676	15,038	14,158	15,434	17,867
Total value of output	£'000 45,380	56,724	52,090	57,121	62,939
Value of land and buildings	£'000 3,067	5,657	8,536	9,773	10,011
Value of plant and machinery	£'000 6,711	8,601	16,588	17,311	19,870
Horse-power of engines ordinarily in use..h.p.	55,641	59,203	73,869	80,662	90,942

19. **Non-ferrous Metals; Founding, Casting, etc.**—The following table shows particulars of this industry for Australia for the years 1958–59 to 1962–63.

NON-FERROUS METALS—FOUNDING, CASTING, ETC.: AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	471	480	490	477	462
Number of persons employed	10,142	10,602	10,510	9,833	10,467
Salaries and wages paid £'000	9,435	10,885	11,036	10,395	11,307
Value of power, fuel, etc., used £'000	805	906	909	897	982
Value of materials used £'000	16,627	20,637	20,148	19,936	23,351
Value of production £'000	16,859	18,415	18,459	18,367	20,457
Total value of output £'000	34,291	39,958	39,516	39,200	44,790
Value of land and buildings £'000	5,768	6,963	8,196	9,338	9,827
Value of plant and machinery £'000	4,988	5,508	6,539	6,720	7,308
Horse-power of engines ordinarily in use h.p.	29,282	31,150	34,082	34,285	36,561

20. Sheet Metal Working, Pressing and Stamping.—The following table shows particulars of this industry for Australia for the years 1958-59 to 1962-63.

SHEET METAL WORKING, PRESSING AND STAMPING: AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	1,010	1,076	1,111	1,142	1,156
Number of persons employed	24,902	26,843	27,474	26,545	27,924
Salaries and wages paid £'000	22,753	26,851	28,582	27,833	29,927
Value of power, fuel, etc., used £'000	1,411	1,628	1,549	1,608	1,771
Value of materials used £'000	52,858	60,801	65,226	66,105	69,884
Value of production £'000	39,909	48,433	50,480	51,152	56,854
Total value of output £'000	94,178	110,862	117,255	118,864	128,509
Value of land and buildings £'000	17,503	20,865	24,900	27,885	29,906
Value of plant and machinery £'000	13,312	15,041	17,369	18,054	20,231
Horse-power of engines ordinarily in use h.p.	71,956	77,233	80,020	79,963	84,487

21. Pipes, Tubes and Fittings—Ferrous.—The following table shows particulars of this industry for Australia for the years 1958-59 to 1962-63. New South Wales, South Australia, and Victoria produce most of the output of this industry.

PIPES, TUBES AND FITTINGS—FERROUS: AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	40	49	55	62	58
Number of persons employed	7,651	8,332	8,547	8,272	8,784
Salaries and wages paid £'000	8,419	9,655	10,339	10,122	11,197
Value of power, fuel, etc., used £'000	1,252	1,357	1,350	1,288	1,606
Value of materials used £'000	22,996	26,454	25,530	25,878	27,387
Value of production £'000	14,967	19,544	20,021	18,891	19,376
Value of output £'000	39,215	47,355	46,901	46,057	48,369
Value of land and buildings £'000	3,756	6,301	6,818	7,345	8,796
Value of plant and machinery £'000	4,038	6,955	7,183	7,741	9,789
Horse-power of engines ordinarily in use h.p.	46,237	50,038	52,300	47,547	59,619

22. Wire and Wire Working (including Nails).—The following table shows particulars of this industry for Australia for the years 1958-59 to 1962-63. New South Wales and Victoria predominate in this industry.

WIRE AND WIRE WORKING (INCLUDING NAILS): AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	275	286	282	283	289
Number of persons employed	9,035	9,974	10,195	9,804	10,377
Salaries and wages paid £'000	8,722	10,418	11,298	10,614	11,910
Value of power, fuel, etc., used £'000	778	905	923	881	944
Value of materials used £'000	28,636	35,875	37,301	34,968	40,290
Value of production £'000	16,701	20,986	21,050	19,361	21,955
Total value of output £'000	46,115	57,766	59,274	55,210	63,189
Value of land and buildings £'000	7,289	8,122	8,958	9,785	10,600
Value of plant and machinery £'000	5,266	6,127	6,588	6,994	8,084
Horse-power of engines ordinarily in use h.p.	35,261	37,162	37,233	39,010	43,818

23. **Wireless and Amplifying Apparatus.**—This industry is confined mainly to New South Wales, Victoria and South Australia. Details for Australia for the years 1958–59 to 1962–63 are shown in the following table.

WIRELESS AND AMPLIFYING APPARATUS: AUSTRALIA

Particulars	1958–59	1959–60	1960–61	1961–62	1962–63
Number of factories	257	289	301	327	330
Number of persons employed	16,482	19,559	17,273	14,707	16,586
Salaries and wages paid £'000	14,264	17,644	17,092	14,602	16,620
Value of power, fuel, etc., used £'000	550	621	648	585	657
Value of materials used £'000	39,255	50,129	40,259	35,995	39,470
Value of production £'000	23,431	30,304	25,504	23,587	27,219
Total value of output £'000	63,236	81,054	66,411	60,167	67,346
Value of land and buildings £'000	7,897	8,941	10,479	11,564	12,052
Value of plant and machinery £'000	5,018	5,744	6,468	6,446	6,633
Horse-power of engines ordinarily in use h.p.	12,952	14,302	14,850	15,353	15,216

24. **Cotton.**—(i) *General.* The growing of cotton, which is confined mainly to Queensland, is treated in some detail in Chapter XXIII. Rural Industry. 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 Colombia.

(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 1958–59 to 1962–63.

COTTON SPINNING AND WEAVING: AUSTRALIA

Particulars	1958–59	1959–60	1960–61	1961–62	1962–63
Number of factories	97	92	88	88	88
Number of persons employed	9,770	9,780	9,121	8,980	9,313
Salaries and wages paid £'000	8,116	8,853	8,122	8,245	8,631
Value of power, fuel, etc., used £'000	988	997	958	1,033	1,134
Value of materials used £'000	19,403	20,631	18,336	19,161	20,818
Value of production £'000	14,751	16,224	15,169	14,827	16,760
Total value of output £'000	35,142	37,852	34,463	35,021	38,712
Value of land and buildings £'000	10,625	9,706	10,392	12,909	14,430
Value of plant and machinery £'000	9,949	9,414	10,105	10,805	12,191
Horse-power of engines ordinarily in use h.p.	38,779	37,240	36,193	40,592	41,581

25. **Wool Carding, Spinning and Weaving.**—Details for Australia for the years 1958–59 to 1962–63 are shown in the following table. Victoria produces more than half the output of this industry.

WOOL CARDING, SPINNING AND WEAVING: AUSTRALIA

Particulars	1958–59	1959–60	1960–61	1961–62	1962–63
Number of factories	141	134	135	134	134
Number of persons employed	20,809	22,433	21,400	20,102	21,131
Salaries and wages paid £'000	15,714	18,052	17,372	17,081	18,230
Value of power, fuel, etc., used £'000	1,445	1,563	1,484	1,456	1,507
Value of materials used £'000	37,252	47,440	40,629	43,122	48,513
Value of production £'000	26,458	29,131	28,119	26,594	29,326
Total value of output £'000	65,155	78,134	70,232	71,172	79,346
Value of land and buildings £'000	10,519	10,625	10,904	10,911	11,575
Value of plant and machinery £'000	12,082	12,599	12,552	13,235	13,720
Horse-power of engines ordinarily in use h.p.	72,301	70,811	69,488	70,610	71,354

26. **Hosiery and Other Knitted Goods.**—Details for Australia for the years 1958–59 to 1962–63 are shown in the following table. Victorian mills produce about three-quarters of the Australian output of knitted goods, most of the balance being produced in New South Wales.

HOSIERY AND OTHER KNITTED GOODS: AUSTRALIA

Particulars	1958–59	1959–60	1960–61	1961–62	1962–63
Number of factories	663	701	687	658	625
Number of persons employed	22,851	24,414	24,741	23,403	24,627
Salaries and wages paid	£'000 16,421	18,791	19,101	18,495	20,323
Value of power, fuel, etc., used	£'000 787	798	810	794	807
Value of materials used	£'000 34,701	41,479	42,228	41,773	46,259
Value of production	£'000 31,325	34,629	36,085	35,948	38,089
Total value of output	£'000 66,813	76,906	79,123	78,515	85,155
Value of land and buildings	£'000 12,144	12,962	14,606	15,229	15,750
Value of plant and machinery	£'000 9,353	9,171	9,967	10,610	11,376
Horse-power of engines ordinarily in use h.p.	23,290	22,019	22,738	23,250	23,106

27. **Rayon, Nylon and Other Synthetic Fibres.**—The following table shows particulars of this industry for Australia for the years 1958–59 to 1962–63. Victoria produces nearly two-thirds of the total Australian output of synthetic fibre textiles, most of the balance being produced in New South Wales.

RAYON, NYLON AND OTHER SYNTHETIC FIBRES: AUSTRALIA

Particulars	1958–59	1959–60	1960–61	1961–62	1962–63
Number of factories	31	33	40	44	45
Number of persons employed	2,888	3,072	3,878	3,947	4,329
Salaries and wages paid	£'000 2,502	2,918	3,876	3,933	4,540
Value of power, fuel, etc., used	£'000 328	401	470	516	572
Value of materials used	£'000 4,672	6,819	8,658	9,884	12,867
Value of production	£'000 3,892	5,005	6,171	6,823	8,044
Total value of output	£'000 8,892	12,225	15,299	17,223	21,483
Value of land and buildings	£'000 2,151	2,247	3,217	3,675	4,298
Value of plant and machinery	£'000 2,605	2,855	3,821	3,978	4,571
Horse-power of engines ordinarily in use h.p.	9,298	10,669	12,161	13,632	14,202

28. **Rope and Cordage.**—Particulars of factories manufacturing rope and cordage are shown in the following table for Australia for the years 1958–59 to 1962–63. Most of the production takes place in New South Wales and Victoria.

ROPE AND CORDAGE: AUSTRALIA

Particulars	1958–59	1959–60	1960–61	1961–62	1962–63
Number of factories	29	28	27	26	26
Number of persons employed	2,239	2,387	2,335	2,146	2,307
Salaries and wages paid	£'000 1,995	2,285	2,272	2,189	2,431
Value of power, fuel, etc., used	£'000 133	158	171	173	184
Value of materials used	£'000 3,790	4,167	5,121	4,240	4,795
Value of production	£'000 4,065	4,407	4,257	4,122	4,752
Total value of output	£'000 7,988	8,732	9,549	8,535	9,731
Value of land and buildings	£'000 2,447	2,625	2,629	2,701	2,754
Value of plant and machinery	£'000 1,441	1,558	1,694	1,718	1,784
Horse-power of engines ordinarily in use h.p.	13,935	14,057	15,015	15,153	15,240

29. **Woolscouring and Fellmongery.**—The following table shows particulars of this industry for Australia for the years 1958–59 to 1962–63. Most of the production comes from New South Wales and Victoria.

WOOLSCOURING AND FELLMONGERY: AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	61	59	58	58	56
Number of persons employed	2,959	3,014	2,740	2,803	2,842
Salaries and wages paid	£'000 3,015	3,351	3,088	3,154	3,297
Value of power, fuel, etc., used	£'000 645	641	555	585	619
Value of materials used	£'000 12,491	15,544	12,459	14,031	15,964
Value of production	£'000 4,726	4,960	4,421	4,433	4,636
Total value of output	£'000 17,862	21,144	17,436	19,049	21,219
Value of land and buildings	£'000 2,163	2,196	2,068	2,401	2,844
Value of plant and machinery	£'000 1,446	1,348	1,362	1,361	1,535
Horse-power of engines ordinarily in use h.p.	18,280	17,479	16,926	16,779	17,544

30. Tanning, Currying and Leather Dressing.—The following table shows particulars of the tanning industry in each State for Australia for the years 1958-59 to 1962-63. New South Wales, Victorian and Queensland factories produce most of the output of this industry.

TANNING, CURRYING AND LEATHER DRESSING: AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	123	118	112	108	102
Number of persons employed	4,617	4,435	4,245	4,159	4,215
Salaries and wages paid	£'000 4,510	4,612	4,575	4,612	4,736
Value of power, fuel, etc., used	£'000 490	484	484	488	501
Value of materials used	£'000 12,635	15,766	14,421	14,281	12,578
Value of production	£'000 6,919	6,967	6,748	7,392	8,114
Total value of output	£'000 20,044	23,217	21,653	22,161	21,193
Value of land and buildings	£'000 2,535	3,399	3,418	3,537	3,665
Value of plant and machinery	£'000 2,223	2,152	2,230	2,241	2,266
Horse-power of engines ordinarily in use h.p.	30,749	33,516	31,516	31,278	27,598

31. Leather Goods (including Saddlery and Belting).—Particulars of the leather goods industry in Australia for the years 1958-59 to 1962-63 are shown in the following table. As with other industries of this class, New South Wales and Victorian factories dominate the industry.

LEATHER GOODS (INCLUDING SADDLERY AND BELTING): AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	430	433	418	392	386
Number of persons employed	4,727	4,873	4,658	4,315	4,519
Salaries and wages paid	£'000 3,140	3,471	3,419	3,276	3,475
Value of power, fuel, etc., used	£'000 59	66	66	66	74
Value of materials used	£'000 5,670	6,607	6,504	6,032	6,576
Value of production	£'000 5,280	6,063	5,878	5,679	6,168
Total value of output	£'000 11,009	12,736	12,448	11,777	12,818
Value of land and buildings	£'000 2,351	2,821	3,084	3,192	3,444
Value of plant and machinery	£'000 607	645	834	846	742
Horse-power of engines ordinarily in use h.p.	2,738	3,769	3,678	3,155	3,387

32. Tailoring and Ready-made Clothing.—Statistics of this industry for Australia for the years 1958-59 to 1962-63 are shown in the following table. New South Wales and Victorian factories account for more than 90 per cent. of the output of this industry.

TAILORING AND READY-MADE CLOTHING: AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	1,841	1,860	1,871	1,839	1,847
Number of persons employed	31,406	33,170	33,890	32,496	33,234
Salaries and wages paid	£'000 19,533	22,133	23,542	23,050	24,271
Value of power, fuel, etc., used	£'000 440	467	495	500	513
Value of materials used	£'000 36,253	40,791	42,674	41,085	44,077
Value of production	£'000 31,371	35,166	36,970	37,585	40,021
Total value of output	£'000 68,064	76,424	80,139	79,170	84,611
Value of land and buildings	£'000 11,948	13,287	15,183	16,189	17,793
Value of plant and machinery	£'000 3,063	3,147	3,446	3,451	3,516
Horse-power of engines ordinarily in use h.p.	10,143	10,899	11,820	12,618	12,939

33. **Dressmaking and Millinery Establishments.**—Particulars of dressmaking and millinery establishments in Australia for the years 1958-59 to 1962-63 are shown in the following table. About two-thirds of the total Australian output comes from Victorian establishments.

DRESSMAKING AND MILLINERY: AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	1,249	1,228	1,194	1,183	1,189
Number of persons employed	15,048	15,021	14,403	14,466	15,093
Salaries and wages paid	£'000 8,599	9,205	9,191	9,471	10,186
Value of power, fuel, etc., used	£'000 184	190	190	196	210
Value of materials used	£'000 11,272	11,758	11,666	12,038	13,028
Value of production	£'000 13,766	14,764	15,063	15,172	16,697
Total value of output	£'000 25,222	26,712	26,919	27,406	29,935
Value of land and buildings	£'000 6,937	7,623	8,277	8,661	9,115
Value of plant and machinery	£'000 1,171	1,114	1,085	1,083	1,182
Horse-power of engines ordinarily in use h.p.	5,159	4,880	4,398	4,543	4,831

34. **Shirts, Collars and Underclothing.**—Particulars of this industry are shown below for Australia for the years 1958-59 to 1962-63. Victorian and New South Wales factories produce most of the output of this industry.

SHIRTS, COLLARS AND UNDERCLOTHING: AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	394	376	368	353	351
Number of persons employed	13,589	12,891	12,864	12,276	13,304
Salaries and wages paid	£'000 8,223	8,326	8,424	8,242	8,983
Value of power, fuel, etc., used	£'000 147	137	148	156	166
Value of materials used	£'000 16,410	15,823	15,795	15,638	16,302
Value of production	£'000 13,271	13,572	13,360	13,276	14,557
Total value of output	£'000 29,828	29,532	29,303	29,070	31,025
Value of land and buildings	£'000 3,924	4,050	4,445	4,567	5,164
Value of plant and machinery	£'000 1,317	1,206	1,334	1,344	1,352
Horse-power of engines ordinarily in use h.p.	5,357	5,090	5,454	5,529	5,649

35. **Foundation Garments.**—The following table shows particulars of the foundation garment industry for Australia for the years 1958-59 to 1962-63.

FOUNDATION GARMENTS: AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	69	70	71	66	64
Number of persons employed	3,490	3,589	3,663	3,981	4,012
Salaries and wages paid	£'000 2,263	2,479	2,469	2,672	2,785
Value of power, fuel, etc., used	£'000 42	43	46	50	51
Value of materials used	£'000 5,230	5,231	5,030	5,779	5,814
Value of production	£'000 4,477	4,642	4,866	5,352	5,466
Total value of output	£'000 9,749	9,916	9,942	11,181	11,331
Value of land and buildings	£'000 1,384	1,612	1,891	2,005	2,297
Value of plant and machinery	£'000 415	420	470	534	690
Horse-power of engines ordinarily in use h.p.	1,604	1,739	1,995	2,023	1,987

36. **Boots and Shoes.**—The following tables for the boot and shoe industry in Australia for the years 1958-59 to 1962-63 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. 60, page 201. More than two-thirds of the output of boots and shoes is produced in Victoria.

BOOTS AND SHOES: AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	482	455	460	447	439
Number of persons employed	20,449	20,201	20,782	20,084	20,502
Salaries and wages paid £'000	15,148	16,101	16,913	16,718	17,449
Value of power, fuel, etc., used £'000	275	289	314	327	328
Value of materials used £'000	25,222	28,138	29,325	29,096	30,582
Value of production £'000	22,530	24,059	26,564	26,846	27,411
Total value of output £'000	48,027	52,486	56,803	57,169	58,321
Value of land and buildings £'000	5,254	5,551	6,158	6,713	7,119
Value of plant and machinery £'000	4,307	4,651	5,359	5,384	7,049
Horse-power of engines ordinarily in use h.p.	17,572	17,674	14,599	14,805	15,341

37. **Flour-milling.**—The following table shows particulars of the flour-milling industry in Australia for the years 1958-59 to 1962-63.

FLOUR-MILLING: AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	135	135	132	125	118
Number of persons employed	4,301	4,410	4,463	4,405	4,219
Salaries and wages paid £'000	4,281	4,657	4,917	4,964	4,840
Value of power, fuel, etc., used £'000	827	928	944	951	937
Value of materials used £'000	51,806	57,955	62,826	61,931	60,396
Value of production £'000	9,816	11,100	11,837	11,728	11,954
Total value of output £'000	62,449	69,983	75,607	74,610	73,287
Value of land and buildings £'000	6,711	6,982	7,359	7,114	7,885
Value of plant and machinery £'000	5,902	6,175	5,684	5,461	5,848
Horse-power of engines ordinarily in use h.p.	48,684	49,253	50,265	48,586	47,393

38. **Other Grain Mills.**—The following table shows particulars of cereal foods and starch factories and animal and bird food factories for Australia for the years 1958-59 to 1962-63.

OTHER GRAIN MILLS: AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	220	234	237	242	244
Number of persons employed	4,551	4,740	4,988	5,106	5,289
Salaries and wages paid £'000	4,205	4,607	4,978	5,211	5,477
Value of power, fuel, etc., used £'000	863	955	983	1,050	1,082
Value of materials used £'000	26,958	29,136	32,200	32,794	34,983
Value of production £'000	11,639	13,019	13,298	14,723	16,200
Total value of output £'000	39,460	43,110	46,480	48,567	52,265
Value of land and buildings £'000	5,027	5,549	5,802	6,234	6,980
Value of plant and machinery £'000	5,587	5,905	6,135	6,826	7,411
Horse-power of engines ordinarily in use h.p.	43,788	45,351	45,708	48,674	51,600

39. **Bakeries.**—Information regarding establishments in which the manufacture of bread, cakes, etc., was carried on is given in the table below for Australia for the years 1958-59 to 1962-63. 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): AUSTRALIA

Particulars	1958-59 (a)	1959-60 (a)	1960-61 (a)	1961-62	1962-63
Number of factories	4,150	3,999	3,895	3,855	3,779
Number of persons employed	20,994	21,253	21,743	20,566	21,061
Salaries and wages paid £'000	13,729	14,936	16,446	15,950	16,854
Value of power, fuel, etc., used £'000	2,546	2,624	2,737	2,669	2,739
Value of materials used £'000	45,612	48,387	51,507	48,877	50,005
Value of production £'000	32,182	35,395	38,309	38,532	41,529
Total value of output £'000	80,340	86,406	92,553	90,078	94,273
Value of land and buildings £'000	22,220	23,950	26,280	27,538	29,237
Value of plant and machinery £'000	13,551	15,122	17,601	16,892	18,704
Horse-power of engines ordinarily in use h.p.	33,716	34,953	40,899	35,934	37,589

(a) Includes confectionery in Tasmania.

40. **Biscuits.**—The following table shows particulars of the biscuit industry for Australia for the years 1958-59 to 1962-63. Three-quarters of the output of biscuits comes from New South Wales and Victoria.

BISCUITS: AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	48	51	52	53	52
Number of persons employed	5,993	6,079	6,153	6,092	6,199
Salaries and wages paid £'000	4,574	4,909	5,142	5,452	5,618
Value of power, fuel, etc., used £'000	542	538	544	553	573
Value of materials used £'000	11,057	11,623	12,085	12,724	13,026
Value of production £'000	8,375	9,171	9,829	10,335	10,480
Total value of output £'000	19,973	21,332	22,458	23,612	24,079
Value of land and buildings £'000	4,422	4,758	5,002	5,266	5,706
Value of plant and machinery £'000	3,277	3,727	4,001	4,171	4,231
Horse-power of engines ordinarily in use h.p.	13,259	13,290	13,720	14,017	13,443

41. **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 1958-59 to 1962-63.

SUGAR-MILLS

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
NEW SOUTH WALES					
Number of factories	3	3	3	3	3
Number of persons employed	254	243	200	219	261
QUEENSLAND					
Number of factories	31	31	31	31	31
Number of persons employed	6,621	6,197	6,014	6,053	6,387

In 1962-63, there were two sugar refineries in Queensland and one each in New South Wales, Victoria, South Australia and Western Australia.

42. **Confectionery.**—Particulars for Australia for the years 1958–59 to 1962–63 are shown hereunder. New South Wales, Victoria and Tasmania produce most of the output of the industry.

CONFECTIONERY: AUSTRALIA

Particulars	1958–59 (a)	1959–60 (a)	1960–61 (a)	1961–62	1962–63
Number of factories	209	214	209	197	189
Number of persons employed	6,704	6,765	6,890	7,978	8,015
Salaries and wages paid £'000	5,037	5,393	5,666	7,138	7,277
Value of power, fuel, etc., used £'000	536	555	591	725	771
Value of materials used £'000	16,842	17,674	17,883	22,478	23,213
Value of production £'000	10,586	11,139	12,391	14,830	15,802
Total value of output £'000	27,964	29,368	30,865	38,033	39,786
Value of land and buildings £'000	4,812	5,309	5,590	7,634	8,632
Value of plant and machinery £'000	4,572	4,745	5,428	7,635	8,477
Horse-power of engines ordinarily in use h.p.	30,504	30,571	32,006	38,948	42,665

(a) Excludes Tasmania.

43. **Jam, Fruit and Vegetable Canning, Pickles, Sauces, Vinegar.**—The following table shows particulars of factories included in this class for Australia for the years 1958–59 to 1962–63.

**JAM, FRUIT AND VEGETABLE CANNING, PICKLES, SAUCES, VINEGAR:
AUSTRALIA**

Particulars	1958–59	1959–60	1960–61	1961–62	1962–63
Number of factories	180	177	172	172	170
Number of persons employed	10,762	10,793	10,865	12,092	11,897
Salaries and wages paid £'000	9,186	9,894	10,077	11,826	12,076
Value of power, fuel, etc., used £'000	949	992	1,037	1,201	1,206
Value of materials used £'000	38,358	39,953	41,867	50,817	47,648
Value of production £'000	17,458	20,254	21,076	27,902	27,882
Total value of output £'000	56,765	61,199	63,980	79,920	76,736
Value of land and buildings £'000	11,630	12,095	13,149	14,419	14,920
Value of plant and machinery £'000	9,573	10,162	11,211	12,236	13,229
Horse-power of engines ordinarily in use h.p.	48,539	42,250	44,819	45,852	48,574

44. **Bacon-curing.**—The table hereunder shows particulars of factories engaged in bacon-curing in Australia for the years 1958–59 to 1962–63.

BACON-CURING: AUSTRALIA

Particulars	1958–59	1959–60	1960–61	1961–62	1962–63
Number of factories	80	83	83	83	87
Number of persons employed	4,162	4,068	4,215	4,482	4,675
Salaries and wages paid £'000	3,649	3,853	4,135	4,416	4,658
Value of power, fuel, etc., used £'000	431	432	440	493	521
Value of materials used £'000	25,037	28,218	29,045	27,095	30,995
Value of production £'000	6,473	6,779	7,962	9,525	9,781
Total value of output £'000	31,941	35,429	37,447	37,113	41,297
Value of land and buildings £'000	3,104	3,388	3,963	4,023	4,273
Value of plant and machinery £'000	1,806	2,050	2,244	2,479	2,728
Horse-power of engines ordinarily in use h.p.	14,108	13,670	16,044	17,537	18,236

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

45. **Butter, Cheese and Condensed and Processed Milk.**—The following table shows particulars of butter, cheese and condensed and dried milk factories in Australia for the years 1958–59 to 1962–63. Victoria produces more than half the total Australian output of this industry.

BUTTER, CHEESE AND CONDENSED AND PROCESSED MILK: AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	363	363	361	353	348
Number of persons employed	10,897	11,139	11,072	11,317	11,320
Salaries and wages paid £'000	10,270	11,042	11,524	12,238	12,441
Value of power, fuel, etc., used £'000	2,816	2,920	2,825	2,932	2,980
Value of materials used £'000	101,929	112,307	106,607	111,924	113,346
Value of production £'000	21,446	24,816	24,487	25,793	26,212
Total value of output £'000	126,191	140,043	133,919	140,649	142,538
Value of land and buildings £'000	13,518	14,022	14,702	15,277	15,516
Value of plant and machinery £'000	15,819	16,169	17,046	17,722	18,898
Horse-power of engines ordinarily in use h.p.	107,880	111,149	114,392	114,643	118,087

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

46. Meat and Fish Preserving.—The industries included in this group are engaged chiefly in the freezing and preserving of meat. Most abattoirs are excluded, except in Queensland and Western Australia. 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. The following table shows particulars of this industry for Australia for the years 1958-59 to 1962-63.

MEAT AND FISH PRESERVING: AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	115	128	143	149	159
Number of persons employed	10,142	9,326	9,031	9,491	10,032
Salaries and wages paid £'000	10,699	9,914	9,319	10,524	10,958
Value of power, fuel, etc., used £'000	1,292	1,244	1,199	1,312	1,427
Value of materials used £'000	61,816	65,116	62,686	66,811	71,035
Value of production £'000	15,354	14,195	15,386	18,843	19,133
Total value of output £'000	78,462	80,555	79,271	86,966	91,595
Value of land and buildings £'000	7,459	8,617	9,347	10,430	10,312
Value of plant and machinery £'000	5,261	5,579	6,756	7,081	7,723
Horse-power of engines ordinarily in use h.p.	38,994	39,390	44,731	49,253	53,652

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.

47. Condiments, Coffee, Spices.—The following table shows particulars of this industry for Australia for the years 1958-59 to 1962-63.

CONDIMENTS, COFFEE, SPICES: AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	262	250	254	258	260
Number of persons employed	4,170	4,407	4,487	4,463	5,283
Salaries and wages paid £'000	3,114	3,487	3,771	3,851	4,903
Value of power, fuel, etc., used £'000	256	276	283	299	343
Value of materials used £'000	16,782	18,512	19,214	19,735	21,970
Value of production £'000	8,207	9,890	10,538	10,606	13,779
Total value of output £'000	25,245	28,678	30,035	30,640	36,092
Value of land and buildings £'000	5,250	5,854	6,826	7,642	9,259
Value of plant and machinery £'000	2,125	2,412	2,831	3,571	4,165
Horse-power of engines ordinarily in use h.p.	13,086	12,941	14,231	14,625	16,811

48. Breweries.—The following table gives particulars of breweries for Australia for each of the years 1958-59 to 1962-63.

BREWERIES: AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	27	25	25	25	24
Number of persons employed	5,830	5,701	5,626	5,512	5,741
Salaries and wages paid £'000	6,232	6,438	6,654	6,878	7,000
Value of power, fuel, etc., used £'000	1,488	1,491	1,494	1,531	1,559
Value of materials used £'000	22,416	22,731	24,303	25,748	27,156
Value of production £'000	16,964	18,620	19,789	21,556	22,805
Total value of output(a) £'000	40,868	42,842	45,586	48,835	51,520
Value of land and buildings £'000	12,716	12,924	13,003	13,574	14,841
Value of plant and machinery £'000	15,727	15,426	14,848	15,625	15,003
Horse-power of engines ordinarily in use h.p.	47,199	48,396	49,172	50,083	50,237

(a) Excludes excise duty

49. *Aerated Waters and Cordials.* The following table shows particulars of aerated water and cordial factories in Australia for the years 1958-59 to 1962-63.

AERATED WATERS AND CORDIALS: AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	559	552	548	535	525
Number of persons employed	4,877	5,021	5,275	4,960	5,190
Salaries and wages paid £'000	3,722	4,102	4,458	4,330	4,527
Value of power, fuel, etc., used £'000	367	406	410	404	439
Value of materials used £'000	11,328	12,765	13,400	12,771	14,029
Value of production £'000	10,024	11,355	11,658	11,993	13,346
Total value of output £'000	21,719	24,526	25,468	25,168	27,814
Value of land and buildings £'000	5,359	6,232	7,488	7,835	8,626
Value of plant and machinery £'000	3,874	4,516	5,162	5,701	5,995
Horse-power of engines ordinarily in use h.p.	14,988	15,799	16,363	16,350	17,116

50. *Wineries and Distilleries.*—The following table shows particulars of the operations of wineries and distilleries for Australia for the years 1958-59 to 1962-63. South Australia is the principal wine producing State, and produces more than half the Australian output. Most of the remainder comes from New South Wales and Victoria.

WINERIES AND DISTILLERIES: AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	158	165	164	153	161
Number of persons employed	2,021	2,058	2,095	2,111	2,084
Salaries and wages paid £'000	1,827	1,890	2,017	2,068	2,050
Value of power, fuel, etc., used £'000	396	402	383	405	386
Value of materials used £'000	7,900	7,987	9,328	9,767	9,136
Value of production £'000	3,889	4,900	4,427	4,864	4,733
Total value of output £'000	12,185	13,289	14,138	15,036	14,255
Value of land and buildings £'000	2,588	2,759	3,081	3,041	3,294
Value of plant and machinery £'000	2,573	2,808	3,015	3,330	3,715
Horse-power of engines ordinarily in use h.p.	10,773	11,604	16,450	16,676	17,601

51. *Tobacco, Cigars and Cigarettes.*—Particulars of establishments engaged in the manufacture of tobacco, cigars or cigarettes are shown below for Australia for the year 1958-59 to 1962-63. There were no such factories in South Australia or Tasmania, and Queensland and Western Australian production is relatively small.

TOBACCO, CIGARS AND CIGARETTES: AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	22	21	20	18	18
Number of persons employed	4,779	5,046	5,178	4,914	4,671
Salaries and wages paid £'000	4,178	4,774	5,232	5,282	5,138
Value of power, fuel, etc., used £'000	160	176	225	234	256
Value of materials used £'000	35,775	36,578	40,716	38,568	39,296
Value of production £'000	13,451	16,889	18,378	19,491	20,189
Total value of output(a) £'000	49,386	53,643	59,319	58,293	59,741
Value of land and buildings £'000	2,700	3,620	3,551	4,307	4,640
Value of plant and machinery £'000	4,178	4,961	6,209	6,859	7,094
Horse-power of engines ordinarily in use h.p.	10,384	10,417	10,342	11,203	12,033

(a) Excludes excise duty.

52. Ice Cream.—The following table shows particulars of the ice cream industry for Australia for the years 1958–59 to 1962–63.

ICE CREAM: AUSTRALIA

Particulars	1958–59	1959–60	1960–61	1961–62	1962–63
Number of factories	47	52	55	55	54
Number of persons employed	2,046	2,080	2,124	2,237	2,295
Salaries and wages paid £'000	1,663	1,784	1,865	2,192	2,395
Value of power, fuel, etc., used £'000	363	381	394	412	453
Value of materials used £'000	6,165	6,176	6,461	7,162	7,637
Value of production £'000	4,435	5,055	4,908	5,986	5,838
Total value of output £'000	10,963	11,612	11,763	13,560	13,928
Value of land and buildings £'000	3,257	3,395	3,536	3,593	4,827
Value of plant and machinery £'000	2,962	3,166	3,260	3,750	6,734
Horse-power of engines ordinarily in use h.p.	12,714	15,959	15,068	16,071	18,468

53. 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, covering the years 1958–59 to 1962–63, exclude particulars of a small number of itinerant and travelling sawmills.

SAWMILLS AND PLYWOOD AND VENEER MILLS: AUSTRALIA

Particulars	1958–59	1959–60	1960–61	1961–62	1962–63
Number of factories	2,805	2,791	2,703	2,585	2,514
Number of persons employed	35,891	36,040	34,701	32,382	31,993
Salaries and wages paid £'000	29,478	31,172	31,593	29,816	30,108
Value of power, fuel, etc., used £'000	2,382	2,604	2,621	2,598	2,629
Value of materials used £'000	70,253	76,676	75,056	71,677	73,033
Value of production £'000	53,649	58,412	56,526	53,493	53,215
Total value of output £'000	126,284	137,692	134,203	127,768	128,877
Value of land and buildings £'000	14,545	16,656	18,548	18,014	18,795
Value of plant and machinery £'000	18,737	19,635	20,517	20,222	20,286
Horse-power of engines ordinarily in use h.p.	395,630	407,440	425,280	417,084	428,421

54. Joinery.—The following table shows particulars of the joinery industry for Australia for the years 1958–59 to 1962–63.

JOINERY: AUSTRALIA

Particulars	1958–59	1959–60	1960–61	1961–62	1962–63
Number of factories	2,031	2,149	2,217	2,256	2,247
Number of persons employed	15,564	17,203	17,912	17,239	17,509
Salaries and wages paid £'000	13,036	15,431	17,191	17,026	17,670
Value of power, fuel, etc., used £'000	367	413	456	460	482
Value of materials used £'000	24,468	29,704	32,835	31,587	32,046
Value of production £'000	20,874	24,445	27,218	26,712	27,880
Total value of output £'000	45,709	54,562	60,509	58,759	60,408
Value of land and buildings £'000	9,873	11,699	13,658	14,336	15,272
Value of plant and machinery £'000	4,062	4,443	4,825	5,048	5,100
Horse-power of engines ordinarily in use h.p.	76,199	80,902	86,375	86,240	89,459

55. Cabinet and Furniture Making and Upholstery.—These industries constitute the principal manufactures in Class XI. The following table shows particulars for Australia for the years 1958–59 to 1962–63.

CABINET AND FURNITURE MAKING AND UPHOLSTERY: AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	1,629	1,664	1,633	1,617	1,625
Number of persons employed	16,012	16,475	15,711	15,132	15,726
Salaries and wages paid £'000	12,963	14,187	14,218	14,083	14,697
Value of power, fuel, etc., used £'000	334	346	350	368	388
Value of materials used £'000	22,222	26,123	25,999	26,555	28,121
Value of production £'000	21,228	23,501	23,135	23,048	24,369
Total value of output £'000	43,784	49,970	49,484	49,971	52,878
Value of land and buildings £'000	10,457	11,618	12,719	13,623	14,654
Value of plant and machinery £'000	2,679	2,869	2,964	3,158	3,491
Horse-power of engines ordinarily in use h.p.	46,539	45,955	45,313	46,000	45,641

56. **Printing Works.**—The following table gives particulars of establishments engaged in general printing in Australia for the years 1958-59 to 1962-63. These establishments include those engaged in lithographic printing, bookbinding, paper ruling and linotyping, and Government printing works.

GOVERNMENT AND GENERAL PRINTING WORKS: AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	1,518	1,573	1,641	1,706	1,738
Number of persons employed	26,827	27,744	29,080	29,936	30,614
Salaries and wages paid £'000	23,705	26,711	29,365	30,912	32,296
Value of power, fuel, etc., used £'000	729	797	893	942	1,029
Value of materials used £'000	32,420	35,175	38,249	37,472	41,197
Value of production £'000	41,036	46,567	51,123	55,067	58,636
Total value of output £'000	74,185	82,539	90,265	93,481	100,862
Value of land and buildings £'000	19,041	21,599	25,613	29,682	30,523
Value of plant and machinery £'000	17,535	19,351	21,889	23,709	25,252
Horse-power of engines ordinarily in use h.p.	40,751	43,561	47,269	50,129	52,182

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

NEWSPAPERS AND PERIODICALS: AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	423	429	420	421	415
Number of persons employed	14,878	15,437	15,789	15,491	15,500
Salaries and wages paid £'000	15,291	17,056	19,005	18,874	19,070
Value of power, fuel, etc., used £'000	590	615	654	676	696
Value of materials used £'000	27,746	29,726	30,737	27,817	29,077
Value of production £'000	27,738	30,767	33,997	34,544	35,192
Total value of output £'000	56,074	61,108	65,388	63,037	64,965
Value of land and buildings £'000	13,739	15,193	16,016	16,618	17,198
Value of plant and machinery £'000	11,595	13,960	14,416	15,719	16,200
Horse-power of engines ordinarily in use h.p.	37,440	40,116	45,815	45,776	44,094

57. **Manufactured Stationery.**—The following table shows particulars of the Manufactured Stationery industry for Australia for the years 1958-59 to 1962-63. New South Wales and Victoria produce about 90 per cent. of the output of this industry.

MANUFACTURED STATIONERY: AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	133	143	142	153	150
Number of persons employed	4,782	5,088	5,148	5,221	5,436
Salaries and wages paid £'000	4,095	4,541	4,763	5,131	5,473
Value of power, fuel, etc., used £'000	175	185	195	225	232
Value of materials used £'000	10,845	12,451	13,180	15,164	16,650
Value of production £'000	9,557	11,309	10,756	12,645	13,409
Total value of output £'000	20,577	23,945	24,131	28,034	30,291
Value of land and buildings £'000	4,626	5,187	5,509	6,421	7,164
Value of plant and machinery £'000	3,015	3,510	3,709	4,397	5,137
Horse-power of engines ordinarily in use h.p.	8,749	9,132	9,462	10,853	10,936

58. **Cardboard Boxes, Cartons and Containers and Paper Bags.**—The following table shows particulars of these industries for Australia for a series of years.

**CARDBOARD BOXES, CARTONS AND CONTAINERS AND PAPER BAGS:
AUSTRALIA**

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	210	226	231	239	243
Number of persons employed	8,569	9,429	10,041	10,133	10,832
Salaries and wages paid	£'000 7,558	8,901	9,676	10,216	11,118
Value of power, fuel, etc., used	£'000 326	378	412	446	482
Value of materials used	£'000 26,983	31,580	33,497	35,687	39,926
Value of production	£'000 17,018	20,085	21,407	22,412	24,101
Total value of output	£'000 44,327	52,043	55,316	58,545	64,509
Value of land and buildings	£'000 7,904	8,801	10,595	11,443	13,541
Value of plant and machinery	£'000 6,858	8,083	10,200	10,924	12,541
Horse-power of engines ordinarily in use h.p.	17,020	19,594	21,613	22,961	26,217

59. **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 1962-63 comprised four in New South Wales, eleven in Victoria, two in Queensland, two in South Australia, one in Western Australia, and four 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 for the years 1958-59 to 1962-63.

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	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	18	20	22	23	24
Number of persons employed	8,406	8,775	8,822	8,147	8,678
Salaries and wages paid	£'000 10,422	11,980	12,055	11,218	12,347
Value of power, fuel, etc., used	£'000 3,341	3,906	4,200	4,109	4,653
Value of materials used	£'000 25,025	26,601	27,924	26,505	29,900
Value of production	£'000 25,817	28,326	27,658	26,456	30,204
Total value of output	£'000 54,183	58,833	59,782	57,070	64,757
Value of land and buildings	£'000 12,317	13,307	13,982	15,904	17,168
Value of plant and machinery	£'000 22,482	27,018	33,377	33,735	36,955
Horse-power of engines ordinarily in use h.p.	179,364	189,774	216,539	215,927	256,291

60. **Rubber Goods.**—The following table shows particulars of this industry for Australia for the years 1958-59 to 1962-63. Victorian and New South Wales factories produce about 90 per cent. of the output of this industry.

RUBBER GOODS: AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Number of factories	122	118	116	114	117
Number of persons employed	15,227	15,620	15,416	13,993	15,702
Salaries and wages paid	£'000 15,442	17,142	17,038	15,719	18,741
Value of power, fuel, etc., used	£'000 2,205	2,318	2,382	2,281	2,556
Value of materials used	£'000 36,339	43,382	42,038	35,942	43,010
Value of production	£'000 27,108	26,072	28,026	26,223	30,717
Total value of output	£'000 65,652	71,772	72,446	64,446	76,283
Value of land and buildings	£'000 7,288	7,585	9,121	9,490	10,343
Value of plant and machinery	£'000 7,632	9,543	10,265	10,307	11,598
Horse-power of engines ordinarily in use h.p.	126,901	128,393	131,947	134,428	140,956

61. Tyre Retreading and Repairing.—The following table shows particulars of this industry for Australia for the years 1958–59 to 1962–63.

TYRE RETREADING AND REPAIRING: AUSTRALIA

Particulars	1958–59	1959–60	1960–61	1961–62	1962–63
Number of factories	484	502	513	536	542
Number of persons employed	3,240	3,043	2,979	3,181	3,214
Salaries and wages paid	£'000 2,722	2,686	2,746	3,061	3,217
Value of power, fuel, etc., used	£'000 396	406	416	443	448
Value of materials used	£'000 5,558	5,934	6,336	6,892	7,253
Value of production	£'000 5,696	6,066	6,899	8,064	8,445
Total value of output	£'000 11,650	12,406	13,651	15,399	16,146
Value of land and buildings	£'000 5,534	5,853	6,411	7,385	8,361
Value of plant and machinery	£'000 2,700	2,697	2,724	2,768	2,680
Horse-power of engines ordinarily in use h.p.	10,742	11,494	12,039	13,079	13,865

62. Plastic Moulding and Products.—The following table shows particulars of this industry for Australia for the years 1958–59 to 1962–63.

PLASTIC MOULDING AND PRODUCTS: AUSTRALIA

Particulars	1958–59	1959–60	1960–61	1961–62	1962–63
Number of factories	337	375	398	421	430
Number of persons employed	9,480	10,180	10,658	10,496	11,801
Salaries and wages paid	£'000 8,774	10,160	10,753	10,651	12,541
Value of power, fuel, etc., used	£'000 759	849	900	966	1,129
Value of materials used	£'000 22,272	26,393	24,613	24,260	28,799
Value of production	£'000 18,339	19,886	20,395	20,917	24,249
Total value of output	£'000 41,370	47,128	45,908	46,143	54,177
Value of land and buildings	£'000 6,081	7,806	8,778	10,056	11,660
Value of plant and machinery	£'000 7,005	8,009	9,747	10,605	12,698
Horse-power of engines ordinarily in use h.p.	34,384	37,055	41,635	47,083	54,576

63. Electric Light and Power Works.—For further information on this subject see Chapter VII. Electric Power Generation and Distribution. Particulars of the industry for Australia for the years 1958–59 to 1962–63 are shown below.

ELECTRIC LIGHT AND POWER WORKS: AUSTRALIA

Particulars	1958–59	1959–60	1960–61	1961–62	1962–63
Number of factories	305	304	290	285	275
Number of persons employed	13,124	12,810	12,298	12,441	12,272
Salaries and wages paid	£'000 14,011	14,564	15,018	15,916	16,003
Value of power, fuel, etc., used	£'000 39,383	40,756	42,367	41,680	40,821
Value of materials used	£'000 4,744	4,839	4,976	5,287	5,193
Value of production	£'000 63,422	r71,255	r75,472	r78,534	89,556
Total value of output	£'000 107,549	r116,850	r122,815	r125,501	135,570
Value of land and buildings	£'000 122,460	136,086	139,790	245,389	249,950
Value of plant and machinery	£'000 235,844	259,899	278,007	291,537	306,622
Generators installed—kilowatt capacity	'000 kW 5,531	5,953	6,665	7,215	7,499

Particulars of the types of engines and generators installed in Electric Light and Power Works and their rated horse-power are given on page 164.

64. Gas-works.—The following table shows particulars of gas-works in Australia for the years 1958–59 to 1962–63.

GAS-WORKS: AUSTRALIA

Particulars	1958–59	1959–60	1960–61	1961–62	1962–63
Number of factories	88	88	84	85	87
Number of persons employed	3,917	3,790	3,733	3,674	3,561
Salaries and wages paid	£'000 4,298	4,367	4,582	4,630	4,644
Value of power, fuel, light, etc., used	£'000 2,712	2,942	3,012	3,078	2,855
Value of materials used	£'000 14,996	14,738	14,889	14,180	13,325
Value of production	£'000 11,239	12,037	13,542	14,054	15,870
Total value of output	£'000 28,947	29,717	31,443	31,312	32,050
Value of land and buildings	£'000 6,079	5,946	7,235	7,518	7,536
Value of plant and machinery	£'000 28,127	29,346	29,347	29,846	29,691
Horse-power of engines ordinarily in use h.p.	46,743	46,058	46,363	52,037	58,989