

## CHAPTER XXIV.

## MANUFACTURING INDUSTRY.

## § 1. General.

1. Introduction.—A complete statistical account of the growth of the manufacturing industry in Australia cannot be given owing to the fact that prior to 1906 the necessary statistics were not collected by the several States on a definite and uniform basis. A standard classification of manufacturing industries was formulated at a conference of Australian Statisticians in 1902 and adopted by all States in 1906. 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 primarily engaged in the production of goods for local use, mainly of 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 check was made in this expansion by the world-wide economic depression of 1929-33, but returning general prosperity and the opportunities opened to local manufacturers by import restrictions initiated revival in 1933 and, 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 these demands, as well as those arising locally because of interruption of oversea importations, existing manufacturing industries expanded, and new enterprises were developed rapidly for the production of all classes of munitions, aircraft, ships, many new kinds of machinery and metal manufactures, scientific equipment, textiles, chemicals, etc. The outbreak of war with Japan, the basing of Allied armed forces in Australia, and Australian responsibilities for supplies in the South-west Pacific Area, gave added impetus to these developments, and manufacturing in Australia outstripped all previous levels.

The cessation of war production and the transition of industry to a peace-time basis temporarily retarded progress, but from 1945-46 onward, there was renewed expansion of the manufacturing industries to which an inflow of capital from overseas contributed.

2. Decentralization of Manufacturing Industries.—Following upon a report by the Secondary Industries Commission, the Commonwealth Government called a conference of Commonwealth and State Ministers in August, 1945 to formulate a national policy for the decentralization of secondary industries. It was agreed that the State Governments should seek to promote decentralization along the lines appropriate to each, providing necessary services, assistance and concessions to the full extent of State resources. The Commonwealth undertook to collaborate in all matters of Commonwealth industrial policy affecting the development and location of industry, to investigate in association with the States the prospects of developing secondary industries in selected areas, to advise the States of developments desirable for defence purposes, and to provide financial assistance for projects of national importance where the cost would be great relative to the State's resources.

The Commonwealth has assisted decentralization by allocating to private industry munitions and other defence buildings in decentralized areas and accommodating migrants in provincial centres with prospects of development. Oversea firms contemplating establishment in Australia are encouraged to select locations in rural areas or the less industrialized States.

3. **Commonwealth Division of Industrial Development.**—The Secondary Industries Commission was established in 1943 to investigate post-war uses for munitions factories, to plan for the transition of secondary industries from war-time to peace-time activities, and generally to seek to increase industrial efficiency and to explore opportunities for new industries. The Commission was disbanded in April, 1950.

The functions of the Division of Industrial Development (formed in February, 1945 as the Secondary Industries Division of the Department of Post-war Reconstruction) were extended in August, 1948 to include the encouragement of industrial development, the exercising of Commonwealth responsibilities for the decentralization of industry, the promotion of industrial efficiency (especially the study of technical, production, and managerial problems and the dissemination and application of new knowledge and methods), the encouragement of the development of technological institutes and the publication of studies of the structure and operation of Australian manufacturing industries. The Division was attached to the Ministry of National Development when formed in March, 1950 to plan the development of national resources and to promote decentralization and regional development in conjunction with the States.

4. **Customs and Excise Tariffs and Bounties on Manufactures.**—Particulars of Australian customs and excise tariffs, and the constitution and functions of the Australian Tariff Board in relation to matters affecting the industrial development of Australia, are given in Chapter VIII.—Trade of this volume.

Bounties are paid by the Commonwealth Government to encourage local manufacture of certain products. The Statutory provisions usually fix a term of operation of the bounty, provide for payment at a rate varying according to changes in the corresponding customs duty, specify the annual maximum amount of bounty payable, and require the bounty to be withheld or reduced if a manufacturer's net profit in production of the commodity exceeds a certain rate or if rates of wages and conditions of employment in production of the commodity do not conform to prescribed standards.

5. **Scientific Research and Standardization.**—(i) *The Commonwealth Scientific and Industrial Research Organization.* The function of this Organization, reference to which also appears in Ch. XXIX., is to initiate and conduct research in connexion with industries in Australia, to train research workers, to establish industrial research studentships and fellowships, to make grants in aid of pure scientific research, to establish industrial research associations in various industries, to provide for testing and standardization of scientific equipment, to conduct an information service relating to scientific and industrial matters, and to act for Australia in liaison with other countries in matters of scientific research.

(ii) *The Standards Association of Australia.* This Association, which is referred to also in Ch. XXIX., acts as the national standardizing organization of Australia and issues standard specifications for materials and codes of practice. Specifications and codes are prepared and revised periodically in accordance with the needs of industry, and standards are evolved and accepted by general consent.

(iii) *The National Association of Testing Authorities.* The National Association of Testing Authorities organizes national testing facilities throughout Australia to serve private and governmental needs. Laboratories may register voluntarily in respect of tests within their competence and the Association is to ensure the maintenance of their standards of testing. It is expected that there will be general acceptance of certificates of tests issued in the name of the Association by the registered laboratories.

6. **Definitions in Factory Statistics.**—The statistics relating to factories have been compiled from returns supplied annually by manufacturers to, and tabulated by, the several State Statisticians, in the terms of the Statistical Acts of the States. A return must be supplied in respect of every factory, which is defined for this purpose as an establishment where four or more persons are employed or where power (other than manual) is used in any manufacturing process. This definition includes factories in educational and charitable institutions, reformatories, and other public institutions (except penitentiaries) but does not cover smallgoods makers, laundries, farriers, photography studios, florists and seedsmen, and most abattoirs.

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 if practicable for each industry.

Manufacturers are requested to state in their returns particulars as to the number, age, wages, etc., of their employees, the value of premises and equipment, the horse-power of machinery, the value, and in most cases the quantities, of raw materials and fuel used, and quantities and values of principal materials and articles produced. The returns obtained from manufacturers are not intended to show a complete record of the income or expenditure of factories nor to show the profits or losses of factories collectively or individually.

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

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

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

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

In the process of manufacture, many goods are treated in several industries, the output of one becoming the raw materials of another, so that such commodities are counted more than once in the aggregate value of output and of raw materials. Examples are raw sugar passing from the mills to the refinery, metals from the smelters which become raw materials in establishments concerned in the production of metal goods, and timber from the sawmills used in furniture factories and in joinery. On the other hand, the aggregate value of production is assessed without duplication, the value added by each industry being taken into account once only. For this reason the value of production, and not the value of the output, is used as a measure of activity in the manufacturing industries as a whole.

In the special case of Government factories and workshops, the value of output is, in most cases, estimated by adding 10 per cent. to the value of materials and fuel used and other factory costs, including salaries and wages paid.

7. **Classification of Factories.**—In the compilation of statistical data relating to factories in Australia, a standard classification of manufacturing industries, formulated at a conference of Australian statisticians in 1902 and revised from time to time, was used until the year 1929-30. A new classification was introduced in 1930-31, and this in turn, was revised and extended (principally in regard to the placement and composition of sub-classes) in accordance with decisions of the Statistician's Conference, 1945.

Owing to limitations of space, details published in general tables in this chapter are confined either to the sixteen classes of industry or total factory activity. Particulars of certain of the sub-classes shown below are published in the latter portion of this chapter and full details for all sub-classes may be found in the *Secondary Industries Bulletin*, published annually.

The principal classes and sub-classes in the current classification of factories are as follows:—

### CLASSIFICATION OF FACTORIES.

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

Coke Works.  
Briquetting and Pulverized Coal.  
Carbide.  
Lime, Plaster of Paris, Asphalt.  
Fibrous Plaster and Products.  
Marble, Slate, etc.  
Cement.  
Asbestos Cement Sheets, etc.  
Other Cement Goods.  
Other.

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

Bricks and Tiles, Fire Bricks and Fire-clay Goods.  
Earthenware, China, Porcelain, Terra-cotta.  
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.  
White Lead, Paints, 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 and Rolling of Iron and Steel.  
Foundries—Ferrous.  
Plant, Equipment and Machinery.  
Other Engineering.  
Extracting and Refining of other Metals, Alloys.  
Electrical Machinery, Cables and Apparatus.  
Construction and Repair of Vehicles (no groups).  
Ship and Boat Building and Repairing, Marine Engineering.  
Cutlery and Small Hand Tools.  
Agricultural Machines and Implements.  
Non-Ferrous Metals—  
Rolling and Extrusion.  
Foundries, Casting, etc.  
Iron and Steel Sheets.  
Sheet Metal Working, Pressing, and Stamping.  
Pipes, Tubes and Fittings—Ferrous.  
Wire and Wire Netting (including Nails).  
Stoves, Ovens and Ranges.  
Gas Fittings and Meters.  
Lead Mills.

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

Sewing Machines.  
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).

#### CLASS VI.—TEXTILES AND TEXTILE GOODS (NOT DRESS).

Cotton Ginning.  
Cotton Spinning and Weaving.  
Wool—Carding, Spinning, Weaving.  
Hosiery and other Knitted Goods.  
Silk, Natural.  
Rayon, Nylon and other Synthetic Fibres.  
Flax Mills.  
Rope and Cordage.  
Canvas Goods, Tents, Tarpaulins, etc.  
Bags and Sacks.  
Other.

#### CLASS VII.—SKINS AND LEATHER (NOT CLOTHING OR FOOTWEAR).

Furriers and Fur Dressing.  
Woolscouring and Fellmongery.  
Tanning, Currying, and Leather Dressing.  
Saddlery, Harness, Whips.  
Machine Belting.  
Bags, Trunks, etc.

#### CLASS VIII.—CLOTHING (EXCEPT KNITTED).

Tailoring and Ready-made Clothing.  
Waterproof and Oilskin Clothing.  
Dressmaking.  
Millinery.  
Shirts, Collars, Underclothing.  
Foundation Garments.  
Handkerchiefs, Ties, 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.  
Other.

#### CLASS IX.—FOOD, DRINK AND TOBACCO.

Flour Milling.  
Cereal Foods and Starch.  
Animal and Bird Foods.  
Chaffcutting and Corn Crushing.  
Bakeries (including Cakes and Pastry).  
Biscuits.  
Sugar Mills.

CLASS IX.—FOOD, DRINK AND TOBACCO—  
*continued.*

Sugar Refining.  
Sugar Confectionery (including Chocolate).  
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, etc.  
Ice and Refrigerating.  
Salt Refining.  
Aerated Waters, Cordials, etc.  
Breweries.  
Distilleries.  
Wine Making.  
Cider and Perry Making.  
Malting.  
Bottling.  
Tobacco, Cigars, Cigarettes, Snuff.  
Dehydrated Fruit and Vegetables.  
Ice-cream.  
Sausage Skins.  
Arrowroot.  
Other.

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

Sawmills.  
Plywood and Veneer Mills.  
Bark Mills.  
Joinery.  
Cooperage.  
Boxes and Cases.  
Basketware and Wickerware (including Sea-grass and Bamboo Furniture).  
Perambulators.  
Wall and Ceiling Boards (not Plaster or Cement).  
Other.

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

Billiard Tables, Cabinet and Furniture Making and Upholstery.  
Bedding and Mattresses.  
Furnishing Drapery, etc.

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

Picture Frames.  
Blinds.  
Other.

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

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

CLASS XIII.—RUBBER.

Rubber Goods and Tyres Made.  
Tyre Retreading and Repairing.

CLASS XIV.—MUSICAL INSTRUMENTS.

Gramophones and Gramophone Records.  
Pianos, Piano-Players, Organs.  
Other.

CLASS XV.—MISCELLANEOUS PRODUCTS.

Linoleum, Leather Cloth, Oil Cloth, etc.  
Bone, Horn, Ivory and Shell.  
Plastic Moulding and Products.  
Brooms and Brushes.  
Optical Instruments and Appliances.  
Surgical and other Scientific Instruments and Appliances.  
Photographic Materials, including Developing and Printing.  
Toys, Games and Sports Requisites.  
Artificial Flowers.  
Other.

CLASS XVI.—HEAT, LIGHT, AND POWER.

Electric Light and Power.  
Gas works.

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

FACTORIES : AUSTRALIA.

Year.	Fac-tories.	Employ-ment.(a)	Salaries and Wages Paid.(b)	Value of—				
				Materials and Fuel Used.	Output.	Pro-duction. (c)	Land and Build-ings.	Plant and Mach-inery.
	No.	'000.	£'000. (d)	£'000. (d)	£'000. (d)	£'000. (d)	£'000. (d)	£'000. (d)
1901 .. ..	11,143	198						
1911 .. ..	14,455	312	27,528	81,763	133,022	51,259	32,701	31,516
1920-21 .. ..	17,113	367	62,932	213,579	323,993	110,434	60,831	68,653
1930-41 .. ..	21,751	339	62,455	172,489	290,799	118,310	112,211	124,498
1938-39 .. ..	26,941	565	106,743	297,004	500,420	203,416	130,930	143,662
1945-46 .. ..	31,184	745	205,819	515,325	867,648	354,323	186,939	185,545
1946-47 .. ..	34,768	805	237,174	600,164	1,011,026	410,862	183,152	189,693
1947-48 .. ..	37,356	849	285,765	720,822	1,210,119	480,297	211,143	213,719
1948-49 .. ..	40,070	890	339,287	856,610	1,425,325	568,715	232,740	246,494
1949-50 .. ..	41,596	918	385,896	983,923	1,645,411	661,488	259,549	285,602
1950-51 .. ..	43,147	969	491,857	1,306,963	2,150,568	843,605	303,406	338,930

(a) 1901 and 1911—average employment during period of operation. Later years relate to average employment over whole year. Working proprietors included in all years. (b) Excludes drawings by working proprietors. (c) Value of output less value of materials and fuel, etc., used. (d) Not available.

Single year tables in this issue relate to the year 1950-51 and in the immediately preceding issue to the year 1949-50.

## § 2. Number of Factories.

1. Number of Factories in each State.—The following table shows the number of factories operating in each State in the years 1938-39, 1945-46 and 1947-48 to 1950-51 :—

### FACTORIES : NUMBER.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
1938-39 .. ..	9,464	9,250	3,087	2,067	2,129	944	26,941
1945-46 .. ..	12,287	10,195	2,945	2,395	2,280	1,082	31,184
1947-48 .. ..	15,194	11,642	3,642	2,865	2,788	1,225	37,356
1948-49 .. ..	16,087	12,702	4,083	2,927	2,925	1,346	40,070
1949-50 .. ..	16,346	13,231	4,494	3,046	3,023	1,456	41,596
1950-51 .. ..	17,129	13,504	4,776	3,141	3,111	1,486	43,147

2. Number of Factories in Industrial Classes.—(i) *Australia.* The next table shows the number of factories in Australia during 1938-39, 1945-46 and 1947-48 to 1950-51 classified in the industrial classes agreed upon by the Conference of Statisticians in 1930. This classification, which was introduced during 1930-31, superseded the grouping which had been in use since 1902. Details of some of the principal industries included in the table will be found in § 11 hereunder.

### FACTORIES : NUMBER IN INDUSTRIAL CLASSES, AUSTRALIA.

Class of Industry.	1938-39.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
I. Treatment of Non-metalliferous Mine and Quarry Products .. ..	564	591	933	1,025	1,126	1,235
II. Bricks, Pottery, Glass, etc. .. ..	471	410	517	544	561	583
III. Chemicals, Dyes, Explosives, Paints, Oils and Grease .. ..	666	886	975	1,010	1,006	1,020
IV. Industrial Metals, Machines, Conveyances .. ..	7,255	8,816	10,910	11,801	12,362	13,106
V. Precious Metals, Jewellery and Plate .. ..	290	337	555	623	619	629
VI. Textiles and Textile Goods (not Dress) .. ..	611	383	982	1,065	1,155	1,190
VII. Skins and Leather (not Clothing or Footwear) .. ..	533	651	727	746	751	761
VIII. Clothing (except Knitted) .. ..	4,314	5,215	6,069	6,533	6,620	6,684
IX. Food, Drink and Tobacco .. ..	5,202	5,865	6,475	6,659	6,796	6,865
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving .. ..	2,822	3,148	4,001	4,530	4,893	5,165
XI. Furniture of Wood, Bedding, etc. .. ..	1,149	1,140	1,568	1,726	1,820	1,936
XII. Paper, Stationery, Printing, Book-binding, etc. .. ..	1,816	1,703	1,852	1,942	1,981	2,010
XIII. Rubber .. ..	299	308	371	391	404	411
XIV. Musical Instruments .. ..	34	41	56	64	59	66
XV. Miscellaneous Products .. ..	413	714	899	947	985	1,032
Total, Classes I. to XV. .. ..	26,439	30,708	36,890	39,606	41,138	42,693
XVI. Heat, Light and Power .. ..	502	476	466	464	458	454
Grand Total .. ..	26,941	31,184	37,356	40,070	41,596	43,147

Although not the best index of manufacturing activity, the number of factories affords some indication of the development of secondary industries. Except for the two war years 1941-42 and 1942-43, when there were decreases, the number of factories increased each year from 1931-32 to 1950-51; in the latter year the number of factories in Australia reached the record total of 43,147 or 60.2 per cent. greater than in 1938-39.

(ii) *States, 1950-51.* The following table shows the number of factories in each State classified according to the nature of the industry :—

**FACTORIES : NUMBER IN INDUSTRIAL CLASSES, 1950-51.**

Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metalliferous Mine and Quarry Products ..	438	399	90	140	111	57	1,235
II. Bricks, Pottery, Glass, etc. ..	277	138	49	59	43	17	583
III. Chemicals, Dyes, Explosives, Paints, Oils and Grease ..	513	303	63	69	49	23	1,020
IV. Industrial Metals, Machines, Conveyances ..	5,297	3,966	1,459	1,013	994	377	13,106
V. Precious Metals, Jewellery and Plate ..	265	218	38	52	50	6	629
VI. Textiles and Textile Goods (not Dress) ..	435	630	32	46	35	12	1,190
VII. Skins and Leather (not Clothing or Footwear) ..	346	272	53	44	36	10	761
VIII. Clothing (except Knitted) ..	2,965	2,360	469	397	427	66	6,684
IX. Food, Drink and Tobacco ..	2,376	1,961	1,028	648	552	300	6,865
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving ..	1,942	1,268	874	272	338	471	5,165
XI. Furniture of Wood, Bedding, etc. ..	643	624	273	150	158	88	1,936
XII. Paper, Stationery, Printing, Book-binding, etc. ..	833	725	179	122	123	28	2,010
XIII. Rubber ..	152	122	57	41	23	16	411
XIV. Musical Instruments ..	30	20	4	7	5	..	66
XV. Miscellaneous Products ..	488	393	47	44	50	10	1,032
Total Classes I. to XV. ..	17,000	13,399	4,715	3,104	2,994	1,481	42,693
XVI. Heat, Light and Power ..	129	105	61	37	117	5	454
Grand Total ..	17,129	13,504	4,776	3,141	3,111	1,486	43,147

**§ 3. Classification of Factories according to Number of Persons Employed.**

1. *General.*—The size classification of factories is based on the average weekly number of persons employed during the period of operation (including working proprietors). Prior to 1945-46 there was no dissection of the "over 100 employees" group, but for that and subsequent years this group was subdivided into the seven size groups as shown in the table below.

2. *States, 1950-51.*—The following table shows, for each State, the number of factories classified according to the average number of persons employed :—

**FACTORIES : CLASSIFICATION ACCORDING TO SIZE OF FACTORY, 1950-51.**

Size of Factory (Persons employed).	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Aust.
NUMBER OF FACTORIES.							
Under 4 ..	5,129	4,087	1,469	852	1,251	605	13,393
4 ..	1,438	1,159	454	284	198	162	3,695
5 to 10 ..	4,776	3,372	1,349	859	828	372	11,556
11 to 20 ..	2,525	2,020	658	493	392	153	6,241
21 to 50 ..	1,953	1,723	514	374	278	118	4,960
51 to 100 ..	658	593	153	154	102	45	1,705
101 to 200 ..	362	308	102	68	44	18	902
201 to 300 ..	101	103	46	20	11	4	285
301 to 400 ..	53	50	11	14	3	1	132
401 to 500 ..	25	28	4	5	2	1	65
501 to 750 ..	54	36	9	6	..	3	108
751 to 1,000 ..	19	8	4	4	1	1	37
Over 1,000 ..	36	17	3	8	1	3	68
Total ..	17,129	13,504	4,776	3,141	3,111	1,486	43,147

The relative importance of large and small factories is illustrated by a classification of the average number of persons employed according to the size of factory in which they work :—

**FACTORIES : CLASSIFICATION OF PERSONS EMPLOYED ACCORDING TO SIZE OF FACTORY, 1950-51.**

Size of Factory (Persons employed).	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
AVERAGE NUMBER EMPLOYED DURING PERIOD WORKED.							
Under 4 .. ..	10,543	8,346	3,145	1,812	2,556	1,331	27,733
4 .. ..	5,752	4,636	1,816	1,136	792	648	14,780
5 to 10 .. ..	33,323	23,615	9,322	5,911	5,557	2,570	80,298
11 to 20 .. ..	37,066	29,567	9,625	7,165	5,620	2,190	91,233
21 to 50 .. ..	61,556	53,883	15,558	11,520	8,777	3,721	155,015
51 to 100 .. ..	45,944	42,202	10,865	10,624	6,873	3,098	119,606
101 to 200 .. ..	49,867	42,917	14,347	9,727	6,036	2,468	125,362
201 to 300 .. ..	24,339	25,131	11,052	4,834	2,603	1,088	69,107
301 to 400 .. ..	18,074	17,610	3,622	4,814	1,012	365	45,497
401 to 500 .. ..	11,237	12,413	1,822	2,052	902	493	28,919
501 to 750 .. ..	32,795	21,908	5,601	3,414	..	1,835	65,553
751 to 1,000 .. ..	16,654	6,692	3,443	3,658	858	903	32,208
Over 1,000 .. ..	63,406	29,094	5,358	17,101	2,751	4,064	121,774
Total .. ..	410,556	318,014	95,576	83,768	44,397	24,774	977,085
Average per Factory .. ..	23.97	23.55	20.01	26.67	14.27	16.67	22.65

3. Australia, 1938-39, 1945-46 and 1947-48 to 1950-51.—In the following table factories in Australia are classified according to the number of persons employed in conformity with the practice prior to 1945-46.

**FACTORIES : CLASSIFICATION ACCORDING TO NUMBER OF PERSONS EMPLOYED, AUSTRALIA.**

Year.	Establishments Employing on the Average—							
	20 and under.		21 to 100.		101 and upwards.		Total.	
	Es- tablish- ments.	Persons em- ployed.	Es- tablish- ments.	Persons em- ployed.	Es- tablish- ments.	Persons em- ployed.	Es- tablish- ments.	Persons em- ployed.
1938-39—								
Number .. ..	21,982	129,505	4,013	170,971	946	272,022	26,941	572,498
Average per establish- ment .. ..	5.89	..	42.60	..	287.55	..	21.25	..
Proportion of total %	81.59	22.62	14.90	29.86	3.51	47.52	100	100
1945-46—								
Number .. ..	24,819	154,242	5,080	211,781	1,285	390,538	31,184	756,561
Average per establish- ment .. ..	6.21	..	41.69	..	303.92	..	24.26	..
Proportion of total %	79.59	20.39	16.29	27.99	4.12	51.62	100	100
1947-48—								
Number .. ..	29,947	187,085	6,014	249,858	1,395	419,725	37,356	856,668
Average per establish- ment .. ..	6.25	..	41.55	..	300.88	..	22.93	..
Proportion of total %	80.17	21.84	16.09	29.16	3.74	49.00	100	100
1948-49—								
Number .. ..	32,394	200,889	6,226	257,204	1,450	439,710	40,070	897,803
Average per establish- ment .. ..	6.20	..	41.31	..	303.25	..	22.41	..
Proportion of total %	80.84	22.38	15.54	28.65	3.62	48.97	100	100
1949-50—								
Number .. ..	33,673	207,600	6,442	266,476	1,481	454,900	41,596	928,976
Average per establish- ment .. ..	6.17	..	41.37	..	307.16	..	22.33	..
Proportion of total %	80.95	22.35	15.49	28.68	3.56	48.97	100	100
1950-51—								
Number .. ..	34,885	214,044	6,665	274,621	1,597	488,420	43,147	977,085
Average per establish- ment .. ..	6.14	..	41.20	..	305.84	..	22.65	..
Proportion of total %	80.85	21.91	15.45	28.11	3.70	49.98	100	100



### § 4. Power Equipment in Factories.

1. **General.**—In 1936-37 statistics of power equipment in factories were collected on a basis different from that previously in use. Information now obtained relates to the "rated horse-power" of engines ordinarily in use and of engines in reserve or idle, omitting obsolete engines. In addition, particulars of the power equipment of Central Electric Stations are collected in greater detail. To avoid duplication it is essential that some distinction should be made between Central Electric Stations and other classes of industries. In the following tables Central Electric Stations have been treated separately from other factories.

In par. 2 below, 883 factories are shown in 1950-51 as using no power other than hand-power, the distribution of these factories among the various industries being as follows: Lime, Plaster and Asphalt, 10; Industrial and Heavy Chemicals and Acids and Pharmaceutical and Toilet Preparations, 11; Galvanized Ironworking, Tinsmithing, 39; Tailoring and Ready-made Clothing, 246; Dressmaking, 59; Millinery, 20; Bakeries, 89; Cabinet and Furniture Making, 25; all other industries, 384.

2. **Rated Horse-power of Engines in Factories other than Central Electric Stations.**—The following table shows the number of factories using power-driven machinery, those using manual labour only, and the total rated horse-power of engines and electric motors ordinarily in use and in reserve or idle during 1950-51:—

#### FACTORIES(a): TOTAL RATED HORSE-POWER OF ENGINES AND ELECTRIC MOTORS, 1950-51.

State.	Number of Establishments.(a)			Rated Horse-power of Engines and Motors.	
	Using Power.	Others.	Total.	Ordinarily in use.	In Reserve or Idle (omitting obsolete)
New South Wales ..	16,980	59	17,039	1,451,191	186,003
Victoria ..	13,153	282	13,435	928,163	134,884
Queensland ..	4,518	213	4,731	338,836	40,232
South Australia ..	2,964	143	3,107	251,764	33,336
Western Australia ..	2,840	158	2,998	130,200	20,610
Tasmania ..	1,455	28	1,483	150,804	21,722
Australia ..	41,910	883	42,793	3,250,958	436,787

(a) Excludes Central Electric Stations.

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

#### FACTORIES(a): TOTAL RATED HORSE-POWER OF ENGINES AND ELECTRIC MOTORS ORDINARILY IN USE, 1950-51.

State.	Steam.		Internal Combustion.			Water.	Motors driven by electricity.		Total. (b)
	Reciprocating.	Turbine.	Gas.	Light Oils.	Heavy Oils.		Purchased.	Own Generation. (c)	
N.S.W. ..	106,218	77,445	2,704	53,159	68,765	172	1,142,728	66,779	1,451,191
Victoria ..	23,210	39,442	2,917	12,703	17,096	1,508	831,287	34,541	928,163
Queensland ..	83,451	15,100	6,618	10,080	20,338	..	203,249	56,309	338,836
S. Australia ..	5,723	6,011	1,676	3,922	13,920	10	220,502	18,066	251,764
W. Australia ..	9,660	144	1,963	5,354	12,687	..	100,392	6,053	130,200
Tasmania ..	2,402	2,003	1	6,197	2,454	192	137,555	40	150,804
Australia ..	230,664	140,145	15,879	91,415	135,260	1,882	2,635,713	181,788	3,250,958

(a) Excludes Central Electric Stations.

(b) Excludes particulars in column (c).

(ii) *According to Type, Australia.* In the following table details of the total rated horse-power of the various types of engines in use are given for Australia for the years 1938-39, 1945-46 and 1947-48 to 1950-51.

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

Year.	Steam.		Internal Combustion.			Water.	Motors driven by electricity.		Total (b)
	Reciprocating.	Turbine.	Gas.	Light Oils.	Heavy Oils.		Purchased.	Own Generation (c)	
1938-39 ..	268,409	84,149	32,914	17,970	55,800	1,616	1,017,911	179,889	1,478,769
1945-46 ..	236,378	117,736	20,481	23,876	56,189	1,737	1,755,036	226,692	2,211,433
1947-48 ..	235,116	110,646	17,182	33,656	63,728	1,830	2,073,409	177,598	2,535,567
1948-49 ..	229,953	120,289	16,024	55,158	72,165	1,515	2,249,360	177,296	2,744,464
1949-50 ..	232,047	135,217	15,035	67,986	92,151	1,703	2,421,174	186,566	2,965,313
1950-51 ..	230,664	140,145	15,879	91,415	135,260	1,882	2,635,713	181,788	3,250,958

(a) Excludes Central Electric Stations.

(b) Excludes particulars in column (c).

(iii) *In Classes of Industry, 1950-51.* 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, 1950-51.**

Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metallic Mine and Quarry Products	74,027	39,004	10,753	12,279	7,316	13,350	156,729
II. Bricks, Pottery, Glass, etc.	43,365	26,413	6,001	6,760	5,745	1,792	90,076
III. Chemicals, Dyes, Explosives, Paints, Oils and Grease	87,762	70,860	5,490	13,686	9,346	2,288	189,432
IV. Industrial Metals, Machines, Conveyances	685,905	267,972	75,363	115,013	34,640	44,360	1,223,253
V. Precious Metals, Jewellery and Plate	4,375	5,605	380	970	488	58	11,876
VI. Textiles and Textile Goods (not Dress)	55,195	82,026	4,958	6,650	2,009	4,704	155,542
VII. Skins and Leather (not Clothing or Footwear)	18,372	17,981	4,207	4,648	2,117	1,436	48,761
VIII. Clothing (except Knitted)	27,756	26,970	2,968	2,558	1,728	498	62,478
IX. Food, Drink and Tobacco	171,552	145,016	136,618	44,624	29,596	13,657	541,063
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving	136,707	98,093	70,497	22,348	27,195	25,790	380,630
XI. Furniture of Wood, Bedding, etc.	17,645	15,610	7,143	5,745	3,697	1,713	51,553
XII. Paper, Stationery, Printing, Bookbinding, etc.	57,463	67,386	6,715	11,096	4,278	40,484	187,422
XIII. Rubber	38,910	38,900	5,489	2,230	364	224	86,117
XIV. Musical Instruments	2,422	352	43	13	7	..	2,837
XV. Miscellaneous Products	16,128	16,163	358	1,584	412	339	34,984
Total, Classes I. to XV. ..	1,437,584	918,351	336,983	250,204	128,938	150,693	3,222,753
XVI. Gas Works .. ..	13,607	9,812	1,853	1,560	1,262	111	28,205
Grand Total .. ..	1,451,191	928,163	338,836	251,764	130,200	150,804	3,250,958

(a) Excludes 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 1950–51 are given in the following table :—

CENTRAL ELECTRIC STATIONS : POWER EQUIPMENT, AUSTRALIA, 1950–51.

Particulars.		Capacity of Engines and Generators.						
		Steam.		Internal Combustion.			Water.	Total.
		Recipro- cating.	Turbine.	Gas.	Light Oils.	Heavy Oils.		
Engines installed	Rated H.P.	17,362	2,703,225	19,374	7,116	236,620	393,742	3,377,439
Generators installed—								
Kilowatt capacity—								
Total installed	K.W.	11,291	2,008,583	14,793	4,343	155,199	283,520	2,477,729
Effective capacity	„	10,914	1,725,808	11,357	3,083	143,385	288,862	2,183,409
Horse-power equivalent—								
Total installed	H.P.	15,135	2,692,465	19,830	5,822	208,041	380,053	3,321,346
Effective capacity	„	14,630	2,313,411	15,224	4,133	192,204	387,214	2,926,816

(ii) *States.* Details of the capacity of engines and generators installed in Central Electric Stations in each State in 1950–51 are given in the next table.

CENTRAL ELECTRIC STATIONS : POWER EQUIPMENT, 1950–51.

Particulars.		N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Engines installed	Rated H.P.	1,353,272	919,345	348,247	281,623	203,902	271,050	3,377,439
Generators installed—								
Kilowatt capacity—								
Total installed	K.W.	1,042,039	642,788	245,776	206,925	145,721	194,480	2,477,729
Effective capacity	„	895,775	585,324	160,573	205,769	135,846	200,122	2,183,409
Horse-power equivalent—								
Total installed	H.P.	1,396,833	861,644	329,458	277,379	195,335	260,697	3,321,346
Effective capacity	„	1,200,768	784,616	215,244	275,829	182,099	268,260	2,926,816

## § 5. Employment in Factories.

1. *Number Employed.*—(i) *General.* All persons employed in the manufacturing activities of a factory, including proprietors who work in their own business and “outworkers” (see par. 4 (ii) hereinafter), are counted as factory employees, while those employed in selling and distributing, such as salesmen, travellers, collectors, carters employed solely on outward delivery of manufactured goods and retailing storemen are excluded. Prior to 1945–46 the occupational grouping collected was (i) working proprietors; (ii) managers and overseers; (iii) accountants and clerks; (iv) enginedrivers and firemen; (v) workers in factory, skilled and unskilled; (vi) carters and messengers; and (vii) persons working regularly at home for the establishment. This grouping did not record separate details for technical staff (e.g., chemists, draftsmen, etc.) and supervisory staff and in 1945–46 the set-up on the collection form was amended to obtain the following groupings :—(i) Working proprietors; (ii) managerial and clerical staff including salaried managers and working directors; (iii) chemists, draftsmen and other laboratory and research staff; (iv) foremen and overseers; (v) skilled and unskilled workers; (vi) carters (excluding delivery only), messengers and persons working regularly at home.

Prior to the year 1928-29 average employment in factories was computed by dividing the sum of the number employed each week by the number of weeks worked. The figures therefore, represented the average number employed over the period worked, which, for many factories, was less than a full year. Commencing with the year 1928-29 the figures represent the equivalent average number employed over a full year of fifty-two weeks. The classification of factories according to the number of persons employed (*see* § 3 *ante*), however, is still based on the old method, but for all other purposes the average number engaged over the full year is used.

(ii) *Australia.* Particulars of the numbers employed, the increase in employment and the rate per cent. of such increase are given for years 1938-39, 1945-46 and 1947-48 to 1950-51 in the following table:—

#### FACTORIES : EMPLOYMENT, AUSTRALIA.

Year.	Males.			Females.			Persons.		
	Number Employed.	Increase on Preceding Year.		Number Employed.	Increase on Preceding Year.		Number Employed.	Increase on Preceding Year.	
		Number.	Per Cent.		Number.	Per Cent.		Number.	Per Cent.
1938-39 ..	412,591	3,989	0.98	152,515	1,957	1.30	565,106	5,946	1.06
1945-46 ..	548,888	12,995	2.42	196,370	-18,316	-8.53	745,258	-5,321	-0.71
1947-48 ..	640,925	36,625	6.06	207,951	7,322	3.65	848,876	43,947	5.46
1948-49 ..	670,076	29,151	4.55	220,156	12,205	5.87	890,232	41,356	4.87
1949-50 ..	689,508	19,432	2.90	228,153	7,997	3.63	917,661	27,429	3.08
1950-51 ..	726,226	36,718	5.33	242,867	14,714	6.45	969,093	51,432	5.60

NOTE.—Minus sign (-) indicates decrease.

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

#### FACTORIES : EMPLOYMENT.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
AVERAGE NUMBER EMPLOYED DURING FULL YEAR (52 WEEKS).							
1938-39 ..	228,781	201,831	54,110	43,371	23,211	13,802	565,106
1945-46 ..	310,870	256,249	65,460	63,188	30,256	19,235	745,258
1947-48 ..	363,365	278,271	76,754	73,346	35,967	21,173	848,876
1948-49 ..	378,380	292,006	82,945	75,945	38,354	22,602	890,232
1949-50 ..	382,385	303,476	88,963	78,598	40,733	23,506	917,661
1950-51 ..	406,965	316,792	94,579	83,169	43,761	23,827	969,093

#### PERCENTAGE OF AUSTRALIAN TOTAL.

1938-39 ..	40.48	35.72	9.58	7.67	4.11	2.44	100.00
1945-46 ..	41.72	34.38	8.78	8.48	4.06	2.58	100.00
1947-48 ..	42.81	32.78	9.04	8.64	4.24	2.49	100.00
1948-49 ..	42.50	32.80	9.32	8.53	4.31	2.54	100.00
1949-50 ..	41.67	33.07	9.69	8.57	4.44	2.56	100.00
1950-51 ..	41.99	32.69	9.76	8.58	4.52	2.46	100.00

FACTORIES: EMPLOYMENT—*continued.*

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
PER 10,000 OF POPULATION.							
1938-39 .. .. .	836	1,078	537	729	497	581	815
1945-46 .. .. .	1,060	1,272	604	1,002	617	769	1,003
1947-48 .. .. .	1,209	1,345	690	1,124	707	809	1,111
1948-49 .. .. .	1,235	1,382	731	1,142	734	843	1,141
1949-50 .. .. .	1,206	1,398	765	1,144	746	847	1,140
1950-51 .. .. .	1,243	1,416	793	1,170	766	829	1,166

2. Rates of Increase, 1938-39, 1945-46 and 1947-48 to 1950-51.—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.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
1938-39 .. .. .	1.74	0.02	3.82	-1.62	0.34	4.80	1.06
1945-46 .. .. .	-1.21	-0.54	2.07	-3.49	3.81	-1.41	-0.71
1947-48 .. .. .	5.90	4.71	7.20	3.73	6.39	6.20	5.46
1948-49 .. .. .	4.13	4.94	8.07	3.54	6.64	6.75	4.87
1949-50 .. .. .	1.06	3.93	7.26	3.49	6.20	4.00	3.08
1950-51 .. .. .	6.43	4.39	6.31	5.82	7.43	1.37	5.60

NOTE.—Minus sign (-) indicates decrease.

3. Persons Employed in Classes of Industry.—(i) *Australia.* The following table shows the average number of persons employed in factories in each industrial class in Australia for the years 1938-39, 1945-46 and 1947-48 to 1950-51:—

## FACTORIES: PERSONS EMPLOYED IN INDUSTRIAL CLASSES, AUSTRALIA.

Class of Industry.	1938-39.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
I. Treatment of Non-metalliferous Mine and Quarry Products .. .. .	10,343	9,929	14,263	15,572	16,598	18,436
II. Bricks, Pottery, Glass, etc. .. .	15,709	13,466	17,536	18,702	19,241	20,449
III. Chemicals, Dyes, Explosives, Paints, Oils and Grease .. .. .	19,816	31,471	31,808	33,355	34,525	36,323
IV. Industrial Metals, Machines, Conveyances .. .. .	177,677	292,477	320,948	333,313	344,313	373,798
V. Precious Metals, Jewellery and Plate .. .	3,726	3,240	6,069	6,414	6,638	6,344
VI. Textiles and Textile Goods (not Dress)	46,082	55,008	61,911	64,855	65,528	68,280
VII. Skins and Leather (not Clothing or Footwear) .. .. .	10,767	14,492	15,624	15,902	16,277	15,801
VIII. Clothing (except Knitted) .. .. .	86,092	93,370	111,693	118,133	118,757	122,464
IX. Food, Drink and Tobacco .. .. .	83,846	105,878	113,595	118,259	122,783	124,350
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving .. .. .	30,739	38,346	47,052	51,206	53,169	56,300
XI. Furniture of Wood, Bedding, etc. .. .	15,287	13,107	18,546	20,024	21,021	22,818
XII. Paper, Stationery, Printing, Book-binding, etc. .. .. .	39,913	39,905	47,813	50,571	53,002	55,328
XIII. Rubber .. .. .	7,502	8,699	10,753	11,808	12,382	13,526
XIV. Musical Instruments .. .. .	451	459	887	1,250	1,456	1,614
XV. Miscellaneous Products .. .. .	7,727	14,838	18,235	18,123	18,561	19,401
Total, Classes I. to XV. .. .. .	555,677	734,685	836,733	877,487	904,251	955,232
XVI. Heat, Light and Power .. .. .	9,429	10,573	12,143	12,745	13,410	13,861
Grand Total .. .. .	565,106	745,258	848,876	890,232	917,661	969,093

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

**FACTORIES : PERSONS EMPLOYED IN INDUSTRIAL CLASSES, 1950-51.**

Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metalliferous Mine and Quarry Products	7,600	5,418	1,642	1,479	1,584	713	18,436
II. Bricks, Pottery, Glass, etc.	11,106	4,856	1,046	1,922	1,208	311	20,449
III. Chemicals, Dyes, Explosives, Paints, Oils and Grease	17,409	12,619	1,385	2,982	1,628	300	36,323
IV. Industrial Metals, Machines, Conveyances	172,256	105,354	31,496	41,435	15,971	7,286	373,798
V. Precious Metals, Jewellery and Plate	2,138	3,265	315	360	247	19	6,344
VI. Textiles and Textile Goods (not Dress)	25,299	35,320	1,997	2,592	816	2,256	68,280
VII. Skins and Leather (not Clothing or Footwear)	6,252	5,626	1,396	1,451	711	365	15,801
VIII. Clothing (except Knitted)	49,947	49,186	9,999	7,230	5,144	958	122,464
IX. Food, Drink and Tobacco	40,342	38,821	23,570	10,757	6,051	4,809	124,350
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving	19,705	14,279	10,388	3,990	4,864	3,074	56,300
XI. Furniture of Wood, Bedding, etc.	8,574	6,503	3,440	2,131	1,500	670	22,818
XII. Paper, Stationery, Printing, Bookbinding, etc.	24,332	18,039	4,704	3,422	2,267	2,564	55,328
XIII. Rubber	6,431	4,948	1,155	733	138	121	13,526
XIV. Musical Instruments	1,320	187	35	50	22	..	1,614
XV. Miscellaneous Products	8,790	8,527	567	905	404	208	19,401
Total, Classes I. to XV.	401,501	312,948	93,135	81,439	42,555	23,654	955,232
XVI. Heat, Light and Power	5,464	3,844	1,444	1,730	1,206	173	13,861
Grand Total	406,965	316,792	94,579	83,169	43,761	123,827	969,093

4. *Persons Employed According to Occupational Status.*—(i) *General.* In the following table the average number of persons employed in each State during 1950-51 are classified according to their occupational status. As mentioned previously, persons employed in factories are now classified on a basis different from that adopted prior to 1945-46. The nature of this change is indicated in § 5, par. 1.

**FACTORIES : PERSONS EMPLOYED—OCCUPATIONAL STATUS, 1950-51.**

State.	Average Number of Persons Employed.						Total.
	Working Proprietors.	Managerial and Clerical Staff, etc.(a)	Chemists, Draftsmen, etc.	Foremen and Overseers.	Workers in Factory (Skilled and Unskilled).	Carters (excluding Delivery only) and Messengers, etc. (b)	
New South Wales ..	13,503	42,258	5,001	16,258	327,454	2,491	406,965
Victoria ..	11,526	31,089	3,745	13,343	254,555	2,534	316,792
Queensland ..	4,169	8,308	764	3,133	77,386	819	94,579
South Australia ..	2,217	8,814	1,034	3,346	67,397	361	83,169
Western Australia	2,302	3,175	285	1,606	36,254	139	43,761
Tasmania ..	980	2,238	292	974	19,223	120	23,827
Australia ..	34,697	95,882	11,121	38,660	782,269	6,464	969,093

(a) Includes salaried managers and working directors.

(b) Includes persons working regularly at home.

(ii) *Outworkers.* The term "outworker" or "homeworker" has acquired a special meaning in connexion with manufacturing industries, and embraces only persons to whom work is given out by factories to be done at home. Owing to the amended employment groupings adopted in 1945-46 (see § 5. 1.) persons working regularly at home for factories are now included with carters, messengers and others and separate details are no longer available. The number of "outworkers" employed by factories in 1944-45 was 1,049.

5. *Monthly Employment, 1938-39, 1945-46 and 1948-49 to 1950-51.*—The following table shows the number of persons (excluding working proprietors) employed in factories on the pay-day nearest to the 15th of each month for years up to 1949-50 and on the last pay-day of the month thereafter.

**FACTORIES : MONTHLY EMPLOYMENT, AUSTRALIA.**  
(EXCLUDING WORKING PROPRIETORS.)

Month.	1938-39.	1945-46.	1948-49.	1949-50.	1950-51.
<b>MALES.</b>					
July .. .. .	387,693	518,734	627,384	584,355	682,982
August .. .. .	389,979	519,122	628,814	622,254	685,939
September .. .. .	391,576	511,909	629,426	647,097	686,058
October .. .. .	393,977	505,753	629,671	652,632	687,683
November .. .. .	395,192	503,296	632,557	655,266	692,800
December .. .. .	394,438	489,040	631,782	655,475	690,750
January .. .. .	385,742	513,396	632,979	658,251	692,863
February .. .. .	392,056	533,761	637,181	664,716	694,787
March .. .. .	395,146	543,347	641,432	669,505	696,447
April .. .. .	391,005	547,253	640,693	669,558	700,339
May .. .. .	393,609	553,980	644,806	674,432	702,813
June .. .. .	390,973	558,428	646,383	677,682	704,710
<b>FEMALES.</b>					
July .. .. .	147,282	204,705	209,489	195,017	229,987
August .. .. .	149,294	204,150	210,574	211,520	232,090
September .. .. .	151,159	199,331	212,656	219,868	233,914
October .. .. .	152,473	193,587	214,062	222,681	236,282
November .. .. .	152,806	191,689	215,239	225,064	238,740
December .. .. .	151,165	183,899	214,158	223,895	237,141
January .. .. .	141,853	184,810	211,131	223,214	236,018
February .. .. .	151,883	188,632	215,994	228,233	242,902
March .. .. .	154,854	192,699	218,429	231,239	243,181
April .. .. .	152,614	192,084	218,007	230,355	243,011
May .. .. .	150,693	192,215	218,705	231,346	243,768
June .. .. .	148,601	192,137	219,652	231,207	244,268
<b>PERSONS.</b>					
July .. .. .	534,975	723,439	836,873	779,372	912,969
August .. .. .	539,273	723,272	839,388	833,774	918,029
September .. .. .	542,735	711,240	842,082	866,965	919,972
October .. .. .	546,450	699,340	843,733	875,313	923,965
November .. .. .	547,998	694,985	847,796	880,330	931,540
December .. .. .	545,603	672,939	845,940	879,370	927,891
January .. .. .	527,595	698,206	844,110	881,465	928,881
February .. .. .	543,939	722,393	853,175	892,949	937,689
March .. .. .	550,000	736,046	859,861	900,744	939,628
April .. .. .	543,619	739,337	858,700	899,913	943,350
May .. .. .	544,302	746,195	863,511	905,778	946,581
June .. .. .	539,574	750,565	866,035	908,889	948,978

6. **Distribution of Employees According to Age.**—(i) *States.* The extension of statistics of employment in factories, decided upon at the Conference of Australian Statisticians held in 1945, permits of a distribution of employees (excluding working proprietors) into seven age-groups from 1945-46 onwards, instead of three as in previous years. The particulars are collected as at June. The numbers employed in each age-group in June, 1951, are given below :—

**FACTORIES : DISTRIBUTION OF EMPLOYEES ACCORDING TO AGE, JUNE, 1951.**

(EXCLUDING WORKING PROPRIETORS.)

Age Groups.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
<b>MALES.</b>							
Under 16 years ..	2,184	2,700	1,667	721	755	102	8,219
16 years ..	4,403	2,868	1,581	810	847	328	10,837
17 " ..	5,103	3,295	1,510	927	887	404	12,126
18 " ..	5,670	3,345	1,549	1,003	840	413	12,820
19 " ..	5,408	3,253	1,444	949	763	384	12,201
20 " ..	5,722	3,513	1,527	1,057	733	383	12,935
21 " and over ..	26,441	198,053	65,980	60,253	30,251	16,624	635,572
<b>Total ..</b>	<b>292,901</b>	<b>217,117</b>	<b>75,258</b>	<b>65,720</b>	<b>35,076</b>	<b>18,638</b>	<b>704,710</b>

**FEMALES.**

Under 16 years ..	1,767	2,139	1,178	733	378	41	6,236
16 years ..	3,377	2,527	948	620	490	201	8,163
17 " ..	3,743	2,859	998	653	494	253	9,000
18 " ..	4,474	3,136	1,033	705	582	252	10,182
19 " ..	4,417	3,073	882	642	537	253	9,804
20 " ..	4,362	2,955	902	608	525	257	9,699
21 " and over ..	84,014	75,508	11,477	12,268	4,512	3,405	191,184
<b>Total ..</b>	<b>106,154</b>	<b>92,197</b>	<b>17,418</b>	<b>16,319</b>	<b>7,518</b>	<b>4,662</b>	<b>244,268</b>

**PERSONS.**

Under 16 years ..	3,951	4,929	2,845	1,454	1,133	143	14,455
16 years ..	7,780	5,395	2,529	1,430	1,337	529	19,000
17 " ..	8,846	6,154	2,508	1,580	1,381	657	21,126
18 " ..	10,144	6,481	2,582	1,708	1,422	665	23,002
19 " ..	9,825	6,326	2,326	1,591	1,300	637	22,005
20 " ..	10,084	6,468	2,429	1,755	1,258	640	22,634
21 " and over ..	348,425	273,561	77,457	72,521	34,763	20,029	826,756
<b>Total ..</b>	<b>399,055</b>	<b>309,314</b>	<b>92,676</b>	<b>82,039</b>	<b>42,594</b>	<b>23,300</b>	<b>948,978</b>

(ii) *Australia.* As comparative details based on the new age grouping are not available for the years prior to 1945-46, the following table shows the age distribution in sexes for Australia in June, 1939, 1946 and 1948 to 1951 on the old basis.



**FACTORIES : DISTRIBUTION OF EMPLOYEES ACCORDING TO AGE, AUSTRALIA.**  
(EXCLUDING WORKING PROPRIETORS.)

In June—	Under 16 Years.		16 and under 21 Years.		21 Years and Over.		Total.	
	No.	Per Cent.	No.	Per Cent.	No.	Per Cent.	No.	Per Cent.
<b>MALES.</b>								
1939 ..	16,109	4.12	76,418	19.55	298,446	76.33	390,973	100.00
1946 ..	9,016	1.61	69,413	12.43	479,999	85.96	558,428	100.00
1948 ..	7,734	1.24	68,818	11.01	548,467	87.75	625,019	100.00
1949 ..	7,791	1.20	66,035	10.22	572,557	88.58	646,383	100.00
1950 ..	7,812	1.15	63,316	9.34	606,554	89.51	677,682	100.00
1951 ..	8,219	1.17	60,919	8.64	635,572	90.19	704,710	100.00
<b>FEMALES.</b>								
1939 ..	15,497	10.43	56,273	37.87	76,831	51.70	148,601	100.00
1946 ..	7,881	4.10	53,018	27.59	131,238	68.31	192,137	100.00
1948 ..	6,549	3.15	52,201	25.09	149,291	71.76	208,041	100.00
1949 ..	6,326	2.88	51,562	23.47	161,764	73.65	219,652	100.00
1950 ..	6,055	2.62	48,021	20.77	177,131	76.61	231,207	100.00
1951 ..	6,236	2.55	46,848	19.18	191,184	78.27	244,268	100.00
<b>PERSONS.</b>								
1939 ..	31,606	5.86	132,691	24.59	375,277	69.55	539,574	100.00
1946 ..	16,897	2.25	122,431	16.31	611,237	81.44	750,565	100.00
1948 ..	14,283	1.71	121,019	14.53	697,758	83.76	833,060	100.00
1949 ..	14,117	1.63	117,597	13.58	734,321	84.79	866,035	100.00
1950 ..	13,867	1.53	111,337	12.25	783,685	86.22	908,889	100.00
1951 ..	14,455	1.52	107,767	11.36	826,756	87.12	948,978	100.00

**§ 6. Sex Distribution in Factories.**

1. *Distribution According to Sex of Persons Employed.*—(i) *General.* In New South Wales the ratio of the number of females engaged in factories to the number of males during 1886 was about one to seven; in 1891 one to six; in 1903 it became about one to four; and in 1950-51 was one to three. In Victoria the ratio of females to males during the year 1886 was about one to five. Five years later (1891) it was somewhat less, but in 1896 had increased to about one to three, and in 1950-51 was about two to five. For Australia as a whole the ratio of females employed in factories was highest in 1943-44 at about two females to five males but by 1946-47 the ratio had declined to the level of one female to three males, where it has since remained.

(ii) *Average Number of Males and Females Employed.* The following table shows the average number of males and females employed in factories in each State for 1938-39, 1945-46 and 1947-48 to 1950-51 :—

**FACTORIES : MALES AND FEMALES EMPLOYED.**

State.	1938-39.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
<b>MALES.</b>						
New South Wales ..	167,172	227,454	272,600	282,312	284,055	301,307
Victoria ..	136,218	178,951	199,003	208,184	216,198	224,919
Queensland ..	43,941	53,587	63,526	68,385	72,948	77,182
South Australia ..	35,406	49,523	59,071	61,005	63,294	67,015
Western Australia ..	18,704	24,268	29,517	31,682	33,711	36,349
Tasmania ..	11,150	15,105	17,208	18,508	19,302	19,454
Australia ..	412,591	548,888	640,925	670,076	689,508	726,226
<b>FEMALES.</b>						
New South Wales ..	61,609	83,416	90,765	96,068	98,330	105,658
Victoria ..	65,613	77,298	79,268	83,822	87,278	91,873
Queensland ..	10,169	11,873	13,228	14,560	16,015	17,397
South Australia ..	7,965	13,665	14,275	14,940	15,304	16,154
Western Australia ..	4,507	5,988	6,450	6,672	7,022	7,412
Tasmania ..	2,652	4,130	3,965	4,094	4,204	4,373
Australia ..	152,515	196,370	207,951	220,156	228,153	242,867

2. **Rate of Variation for each Sex.**—The percentages of increase or decrease on the average numbers of males and females employed in the preceding year are shown below for the years 1938-39, 1945-46 and 1947-48 to 1950-51 :—

**FACTORIES : ANNUAL PERCENTAGE INCREASES OF MALES AND FEMALES EMPLOYED.**

State.	1938-39.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
<b>MALES.</b>						
New South Wales ..	1.69	1.65	6.60	3.56	6.17	6.07
Victoria ..	0.04	2.60	5.43	4.61	3.85	4.03
Queensland ..	3.79	4.09	7.11	7.65	6.67	5.80
South Australia ..	-2.39	0.95	4.11	3.27	3.75	5.88
Western Australia ..	-0.30	8.32	7.04	7.33	6.40	7.83
Tasmania ..	4.40	2.37	6.31	7.55	4.29	0.79
Total ..	0.98	2.42	6.06	4.55	2.90	5.33
<b>FEMALES.</b>						
New South Wales ..	1.88	- 8.24	3.87	5.84	2.35	7.45
Victoria ..	-0.03	- 7.11	2.95	5.75	4.12	5.26
Queensland ..	3.96	- 6.16	7.63	10.07	9.99	8.63
South Australia ..	1.98	-16.76	2.17	4.66	2.44	5.55
Western Australia ..	3.06	-11.18	3.51	3.44	5.25	5.55
Tasmania ..	6.51	-13.14	5.71	3.25	2.72	4.02
Total ..	1.30	- 8.53	3.65	5.87	3.63	6.45

NOTE.—The minus sign (—) indicates decrease.

3. **Masculinity of Persons Employed in Factories.**—The extent to which females are employed in the factories of Australia may perhaps be more clearly shown by giving the masculinity of persons employed in each State. The following table shows particulars for the years 1938-39, 1945-46 and 1947-48 to 1950-51 :—

**FACTORIES : MASCULINITY<sup>(a)</sup> OF PERSONS EMPLOYED.**

Year.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
1938-39 .. ..	271	208	432	445	415	420	271
1945-46 .. ..	273	232	451	362	405	366	280
1947-48 .. ..	300	251	480	414	458	434	308
1948-49 .. ..	294	248	470	408	475	452	304
1949-50 .. ..	289	248	455	414	480	459	302
1950-51 .. ..	285	245	444	415	490	445	299

(a) Number of males per 100 females.

For a number of years prior to 1926-27 there were on the average 300 males employed in factories for every 100 females, but by 1932-33, as a result of the particularly severe effect of the depression on the heavier industries where males predominate in number, there were only 239 males employed to every 100 females. With the subsequent recovery of employment in the heavier industries the proportion of males per 100 females increased to 271 in 1937-38 and 1938-39. The enlistment of men in the armed services and the expansion of industry and the consequential absorption of women brought about by the 1939-45 War caused a decrease in masculinity from 1938-39 to 1943-44. However, following the cessation of hostilities in 1945 and the return of servicemen to civilian life, the number of females employed in factories declined and masculinity increased, and in 1950-51 there were 299 males to every 100 females employed in factories.

4. **Employment of Females in Particular Industries.**—(i) *General.* The greater number 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 1950-51 these industries accounted for 80.44 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 125 females to every 100 males and in Class VIII., Clothing, with 251 females per 100 males. The following tables show the average number of males and females employed in each of these classes in 1950-51 :—

**MALES AND FEMALES EMPLOYED IN PARTICULAR INDUSTRIES, 1950-51.**

Class.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
<b>MALES.</b>							
IV. Industrial Metals, etc.	153,165	93,535	29,749	37,348	15,296	6,951	336,044
VI. Textiles and Textile Goods (not Dress)	11,039	15,885	727	1,389	408	920	30,368
VIII. Clothing (except Knitted)	13,363	14,937	2,602	2,082	1,543	366	34,893
IX. Food, Drink and Tobacco	27,937	28,257	19,979	8,023	4,661	3,371	92,228
All Other Classes	95,803	72,305	24,125	18,173	14,441	7,846	232,693
<b>Total</b>	<b>301,307</b>	<b>224,919</b>	<b>77,182</b>	<b>67,015</b>	<b>36,349</b>	<b>19,454</b>	<b>726,226</b>
<b>FEMALES.</b>							
IV. Industrial Metals, etc.	19,091	11,819	1,747	4,087	675	335	37,754
VI. Textiles and Textile Goods (not Dress)	14,260	19,435	1,270	1,203	408	1,336	37,912
VIII. Clothing (except Knitted)	36,584	34,249	7,397	5,148	3,601	592	87,571
IX. Food, Drink and Tobacco	12,405	10,564	3,591	2,734	1,390	1,438	32,122
All Other Classes	23,318	15,806	3,392	2,982	1,338	672	47,508
<b>Total</b>	<b>105,658</b>	<b>91,873</b>	<b>17,397</b>	<b>16,154</b>	<b>7,412</b>	<b>4,373</b>	<b>242,867</b>

(ii) *Females Employed in Clothing Manufacture.* The employment of females in the several industries of Class VIII., Clothing—in which class 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 :—

**FEMALES EMPLOYED IN CLOTHING INDUSTRIES, 1950-51.**

Industry.	New South Wales.			Victoria.			Other States.		
	Males.	Fe-males.	Femi-ninity. (a)	Males.	Fe-males.	Femi-ninity. (a)	Males.	Fe-males.	Femi-ninity. (a)
Tailoring and Ready-made Clothing	3,499	16,327	467	3,268	7,634	234	1,829	5,978	327
Waterproof and Oilskin Clothing	119	725	609	155	434	280	15	116	773
Dressmaking, Hemstitching	196	2,661	1,358	1,541	10,686	693	190	3,860	2,032
Millinery	234	1,439	615	217	907	418	43	583	1,356
Shirts, Collars and Under-clothing	553	4,727	855	589	4,602	781	194	2,205	1,137
Foundation Garments	124	1,582	1,276	190	1,204	634	22	212	964
Handkerchiefs, Ties and Scarves	173	983	568	87	408	469	2	6	300
Hats and Caps	657	676	103	399	272	68	25	134	536
Gloves	107	372	348	116	376	324	38	176	463
Boots and Shoes	3,903	4,208	108	5,587	5,718	102	2,333	1,974	85
Boot and Shoe Repairing	1,401	88	6	624	29	5	705	34	5
Boot and Shoe Accessories	235	249	106	389	284	73	28	4	14
Umbrellas and Walking Sticks	49	93	190	26	62	238	18	49	272
Dyeworks and Cleaning (including Renovating and Repairing)	2,063	2,169	105	1,676	1,435	86	1,151	1,407	122
Other	50	285	570	73	198	271	..	..	..
<b>Total</b>	<b>13,363</b>	<b>36,584</b>	<b>274</b>	<b>14,937</b>	<b>34,249</b>	<b>229</b>	<b>6,593</b>	<b>16,738</b>	<b>254</b>

(a) Number of females per 100 males.

### § 7. Child Labour in Factories.

1. *Conditions of Child Labour.*—The employment of young persons in factories in the States is regulated by Acts of Parliament, as is the case with the employment of female labour. The object of the restrictions imposed is to ensure, amongst other things, that a proper period shall be devoted to primary education, and that the early years of labour shall not exhaust the worker before the attainment of full growth.

2. *Number of Children Employed, 1939, 1946 and 1948 to 1951.*—In the returns for the various States, the term "child" denotes any person under sixteen years of age. The decline in the number of children employed from the peak of 33,553 reached in June, 1940 to 14,455 in June, 1951, which is most marked in all States excepting Western Australia, was probably caused by several factors, including (i) the raising of the school leaving age in New South Wales and Tasmania, (ii) fewer children available for employment owing to the decline in the birth rate which occurred about 1929, and (iii) the high level of employment which enabled parents to keep their children at school beyond the statutory leaving age.

The following table shows the number of children of each sex employed in manufacturing industries in June of the years mentioned.

#### FACTORIES : CHILDREN(a) EMPLOYED, JUNE.

State.	1939.	1946.	1948.	1949.	1950.	1951.
MALES.						
New South Wales .. ..	5,759	2,451	2,125	2,115	2,088	2,184
Victoria .. ..	6,167	3,449	2,743	2,806	2,670	2,790
Queensland .. ..	1,790	1,237	1,265	1,336	1,495	1,667
South Australia .. ..	1,296	829	732	722	724	721
Western Australia.. ..	705	739	704	665	716	755
Tasmania .. ..	392	311	165	147	119	102
Australia .. ..	16,109	9,016	7,734	7,791	7,812	8,219
FEMALES.						
New South Wales .. ..	7,084	2,265	1,831	1,736	1,584	1,767
Victoria .. ..	5,005	3,007	2,564	2,354	2,181	2,139
Queensland .. ..	1,334	1,020	955	1,068	1,140	1,178
South Australia .. ..	1,053	885	722	683	716	733
Western Australia.. ..	521	478	357	390	362	378
Tasmania .. ..	500	226	120	95	72	41
Australia .. ..	15,497	7,881	6,549	6,326	6,055	6,236
TOTAL.						
New South Wales .. ..	12,843	4,716	3,956	3,851	3,672	3,951
Victoria .. ..	11,172	6,456	5,307	5,160	4,851	4,929
Queensland .. ..	3,124	2,257	2,220	2,404	2,635	2,845
South Australia .. ..	2,349	1,714	1,454	1,405	1,440	1,454
Western Australia.. ..	1,226	1,217	1,061	1,055	1,078	1,133
Tasmania .. ..	892	537	285	242	191	143
Australia .. ..	31,606	16,897	14,283	14,117	13,867	14,455

(a) Under sixteen years of age.

3. *Proportion of Children Employed to Total Employees.*—The following table shows the proportion of children to total employees (excluding working proprietors) employed in factories in the various States in June of each of the years 1939, 1946 and 1948 to 1951. In 1951 the proportion was highest in Queensland and lowest in Tasmania.

**FACTORIES : PROPORTION OF CHILDREN EMPLOYED TO TOTAL EMPLOYEES,  
JUNE.**

(Per Cent.)

(EXCLUDING WORKING PROPRIETORS.)

State.	1939.	1946.	1948.	1949.	1950.	1951.
New South Wales .. ..	5.85	1.48	1.11	1.06	0.96	0.99
Victoria .. ..	5.81	2.53	1.95	1.82	1.64	1.59
Queensland .. ..	6.01	3.63	2.88	2.91	2.98	3.07
South Australia .. ..	5.78	2.64	2.01	1.87	1.82	1.77
Western Australia .. ..	5.61	3.99	3.04	2.85	2.69	2.66
Tasmania .. ..	6.78	2.77	1.35	1.08	0.83	0.61
<b>Australia .. ..</b>	<b>5.86</b>	<b>2.25</b>	<b>1.71</b>	<b>1.63</b>	<b>1.53</b>	<b>1.52</b>

4. Industries Employing Child Labour.—The distribution of children employed in factories in June, 1951, and the proportion of children employed to total employees is given in the following table according to the class of industry :—

**FACTORIES : CHILDREN EMPLOYED, BY CLASSES, AUSTRALIA, JUNE, 1951.**

Class of Industry.	Children Employed.		Total Employees. (a)		Proportion of Children Employed to Total Employees. (a)	
	Males.	Females.	Males.	Females.	Males.	Females.
I. Treatment of Non-metalliferous Mine and Quarry Products ..	100	15	17,126	702	%	%
II. Bricks, Pottery, Glass, etc. ..	102	25	18,858	1,682	0.58	2.14
III. Chemicals, Dyes, Explosives, Paints, Oils and Grease ..	191	177	27,934	9,152	0.68	1.93
IV. Industrial Metals, Machines, Conveyances .. ..	3,629	644	330,318	39,134	1.10	1.65
V. Precious Metals, Jewellery and Plate .. ..	78	41	4,549	1,208	1.71	3.39
VI. Textiles and Textile Goods (not Dress) .. ..	490	987	30,636	38,818	1.60	2.54
VII. Skins and Leather (not Clothing or Footwear) .. ..	99	42	11,126	3,640	0.89	1.15
VIII. Clothing (except Knitted) ..	496	3,006	30,343	87,608	1.63	3.43
IX. Food, Drink and Tobacco ..	922	609	87,880	31,038	1.05	1.96
X. Sawmills, Joinery, Boxes, etc.; Wood Turning and Carving ..	564	58	50,891	2,374	1.11	2.44
XI. Furniture of Wood, Bedding, etc.	653	65	17,972	3,532	3.63	1.84
XII. Paper, Stationery, Printing, Bookbinding, etc. .. ..	633	410	39,112	15,246	1.62	2.69
XIII. Rubber .. ..	60	41	10,700	3,022	0.56	1.36
XIV. Musical Instruments .. ..	31	3	1,204	357	2.57	0.84
XV. Miscellaneous Products .. ..	136	112	11,948	6,639	1.14	1.69
<b>Total, Classes I. to XV. ..</b>	<b>8,184</b>	<b>6,235</b>	<b>690,597</b>	<b>244,152</b>	<b>1.19</b>	<b>2.55</b>
XVI. Heat, Light and Power ..	35	1	14,113	116	0.25	0.86
<b>Grand Total .. ..</b>	<b>8,219</b>	<b>6,236</b>	<b>704,710</b>	<b>244,268</b>	<b>1.17</b>	<b>2.55</b>

(a) Excludes working proprietors.

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

### § 8. Salaries and Wages Paid and Value of Production.

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

1. **General.**—The importance of the manufacturing industries of Australia is indicated by the fact that the total value of the output for 1950–51 was £2,151,000,000, of which amount £1,235,000,000 represented the value of the materials used, including containers, etc., tools replaced and repairs to plant and buildings, and £72,000,000 the value of the power, fuel and light used. The difference between the sum of the last two amounts and the value of the output, namely £344,000,000, represents the value of production as defined by the Conference of Statisticians at Sydney in 1925, i.e. “the value of consumable commodities produced during the year, deducting, so far as possible, the value of goods consumed in process of production.” The total amount of salaries and wages paid in factories in 1950–51 was £492,000,000. This figure, which excludes amounts drawn by working proprietors, was the highest ever recorded and shows an increase of £106,000,000 or 27.5 per cent. on that for the previous year.

2. **Salaries and Wages Paid.**—(i) *In Classes of Industry, 1950–51.* 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, 1950-51.

(£'000.)

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metalliferous Mine and Quarry Products	4,447	2,921	805	793	709	347	10,022
II. Bricks, Pottery, Glass, etc.	6,299	2,664	507	1,038	597	149	11,254
III. Chemicals, Dyes, Explosives, Paints, Oils and Grease	9,543	7,256	694	1,569	926	184	20,172
IV. Industrial Metals, Machines, Conveyances	98,474	59,462	14,855	23,309	7,518	3,824	207,442
V. Precious Metals, Jewellery and Plate	972	1,741	112	165	106	7	3,103
VI. Textiles and Textile Goods (not Dress)	11,403	16,660	753	1,304	328	997	31,445
VII. Skins and Leather (not Clothing or Footwear)	3,261	2,985	680	803	339	191	8,259
VIII. Clothing (except Knitted)	18,394	19,826	3,166	2,466	1,594	324	45,790
IX. Food, Drink and Tobacco	19,677	20,245	11,723	5,138	2,883	2,282	61,948
X. Sawmills, Joinery, Boxes, etc.; Wood Turning and Carving	9,212	6,981	4,435	1,882	2,110	1,353	25,973
XI. Furniture of Wood, Bedding, etc.	4,048	2,912	1,347	894	589	254	10,044
XII. Paper, Stationery, Printing, Bookbinding, etc.	12,967	9,877	2,154	1,708	1,021	1,575	29,302
XIII. Rubber	4,034	3,115	540	382	65	58	8,194
XIV. Musical Instruments	586	94	15	23	7	..	725
XV. Miscellaneous Products	4,238	4,027	205	407	144	82	9,103
Total, Classes I. to XV.	207,555	160,766	41,991	41,901	18,936	11,627	482,776
XVI. Heat, Light and Power	3,784	2,441	846	1,178	722	110	9,081
Grand Total	211,339	163,207	42,837	43,079	19,658	11,737	491,857

(ii) *Totals and Averages, 1938–39, 1945–46 and 1947–48 to 1950–51.* The following statement shows the total amount of salaries and wages paid, and the average amount paid per employee in each State, for each of the years indicated. The figures exclude working proprietors and the amounts drawn by them

FACTORIES : TOTAL AND AVERAGE SALARIES AND WAGES PAID.

Year.	Particulars.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
1938-39	Total amount paid £'000	44,606	36,027	10,887	8,169	4,574	2,480	106,743
	Average per employee £	201.77	185.64	210.78	195.57	207.90	188.31	196.31
1945-46	Total amount paid £'000	87,647	70,499	18,012	16,770	7,884	5,007	205,819
	Average per employee £	290.75	284.09	285.00	272.71	273.01	269.85	285.17
1947-48	Total amount paid £'000	125,346	93,802	24,163	24,853	10,736	6,865	285,765
	Average per employee £	357.03	349.36	327.72	348.42	316.26	337.45	348.95
1948-49	Total amount paid £'000	146,536	112,410	29,447	29,510	12,928	8,456	339,287
	Average per employee £	401.06	399.86	371.11	399.22	357.18	389.57	395.60
1949-50	Total amount paid £'000	162,147	130,255	34,748	33,807	15,293	9,646	385,896
	Average per employee £	439.04	446.05	408.67	442.05	397.13	428.30	436.59
1950-51	Total amount paid £'000	211,339	163,207	42,837	43,079	19,658	11,737	491,857
	Average per employee £	537.13	534.64	473.80	532.15	474.15	513.74	526.39

In comparing the figures in the preceding table, regard should be paid to the nature of certain industries which are carried on to a greater extent in some States than in others. In Victoria, for instance, there is a large number of hands employed in Class VIII., Clothing, comprising a relatively high percentage of women and children. The highest average wages per employee in 1950-51 were paid in New South Wales, Victoria and South Australia, in that order.

The average earnings per employee rose annually from 1938-39 to 1943-44 when a record high level of £291 was attained as a result of war-time conditions. In 1944-45 the average dropped to £285 and remained at this level in 1945-46. From 1945-46 average earnings rose each year and in 1950-51 reached a new record level of over £526.

(iii) *Earnings of Males and Females, 1950-51.* The following table shows the amount of salaries and wages paid to males and females in each class of industry in each State :—

FACTORIES : SALARIES AND WAGES PAID—MALES AND FEMALES, 1950-51.  
(£'000.)

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
<b>MALES.</b>							
I. Treatment of Non-metalliferous Mine and Quarry Products	4,360	2,835	786	775	698	342	9,796
II. Bricks, Pottery, Glass, etc.	5,971	2,518	498	1,000	577	146	10,710
III. Chemicals, Dyes, Explosives, Paints, Oils and Grease	7,982	6,131	603	1,386	876	175	17,153
IV. Industrial Metals, Machines, Conveyances	91,768	55,102	14,355	21,889	7,331	3,725	194,170
V. Precious Metals, Jewellery and Plate	812	1,537	106	156	95	7	2,713
VI. Textiles and Textile Goods (not Dress)	6,460	9,815	380	851	218	529	18,253
VII. Skins and Leather (not Clothing or Footwear)	2,629	2,567	625	724	305	137	7,037
VIII. Clothing (except Knitted)	6,487	7,754	1,066	959	599	155	17,020
IX. Food, Drink and Tobacco	15,553	16,571	10,729	4,291	2,500	1,809	51,453
X. Sawmills, Joinery, Boxes, etc.; Wood Turning and Carving	8,929	6,785	4,310	1,819	2,094	1,337	25,274
XI. Furniture of Wood, Bedding, etc.	3,486	2,622	1,246	786	553	240	8,933
XII. Paper, Stationery, Printing, Bookbinding, etc.	10,589	8,364	1,747	1,420	876	1,451	24,447
XIII. Rubber	3,485	2,760	390	348	61	56	7,100
XIV. Musical Instruments	489	91	15	22	7	..	624
XV. Miscellaneous Products	3,269	3,038	171	323	113	69	6,983
<b>Total, Classes I. to XV.</b>	<b>172,269</b>	<b>128,490</b>	<b>37,027</b>	<b>36,749</b>	<b>16,903</b>	<b>10,228</b>	<b>401,666</b>
XVI. Heat, Light and Power	3,762	2,433	843	1,176	717	108	9,039
<b>Grand Total</b>	<b>176,031</b>	<b>130,923</b>	<b>37,870</b>	<b>37,925</b>	<b>17,620</b>	<b>10,336</b>	<b>410,705</b>

FACTORIES: SALARIES AND WAGES PAID—MALES AND FEMALES,  
1950-51—continued.  
(£'000.)

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
FEMALES.							
I. Treatment of Non-metalliferous Mine and Quarry Products ..	87	86	19	18	11	5	226
II. Bricks, Pottery, Glass, etc. . .	328	146	9	39	19	2	543
III. Chemicals, Dyes, Explosives, Paints, Oils and Grease ..	1,561	1,125	90	184	50	9	3,019
IV. Industrial Metals, Machines, Conveyances ..	6,707	4,360	500	1,419	187	100	13,273
V. Precious Metals, Jewellery and Plate ..	161	204	6	8	12	..	391
VI. Textiles and Textile Goods (not Dress) ..	4,943	6,845	373	453	111	468	13,193
VII. Skins and Leather (not Clothing or Footwear) ..	632	418	56	79	34	4	1,223
VIII. Clothing (except Knitted) ..	11,907	12,072	2,100	1,527	995	169	28,770
IX. Food, Drink and Tobacco ..	4,124	3,674	994	847	383	473	10,495
X. Sawmills, Joinery, Boxes, etc.; Wood Turning and Carving ..	283	196	125	63	15	16	698
XI. Furniture of Wood, Bedding, etc. ..	562	290	101	108	36	13	1,110
XII. Paper, Stationery, Printing, Bookbinding, etc. ..	2,377	1,513	407	287	145	125	4,854
XIII. Rubber ..	549	354	150	34	4	3	1,094
XIV. Musical Instruments ..	96	4	..	1	..	..	101
XV. Miscellaneous Products ..	969	989	34	84	31	13	2,120
Total, Classes I. to XV. ..	35,286	32,276	4,964	5,151	2,033	1,400	81,110
XVI. Heat, Light and Power ..	22	8	3	3	5	1	42
Grand Total ..	35,308	32,284	4,967	5,154	2,038	1,401	81,152

(iv) Total and Average Earnings of Males and Females, 1938-39, 1945-46 and 1947-48 to 1950-51. Particulars for these years are given in the table hereunder:—

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

Particulars.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
MALES.							
1938-39. Amount paid .. £'000	38,272	29,006	9,920	7,488	4,129	2,234	91,049
Proportion of total .. %	85.80	80.51	91.12	91.66	90.28	90.10	85.30
Average per employee .. £	239.24	224.47	238.59	220.95	235.49	212.09	231.84
1945-46. Amount paid .. £'000	73,380	56,773	16,178	14,654	7,038	4,353	172,376
Proportion of total .. %	83.72	80.53	89.82	87.39	89.27	86.96	83.75
Average per employee .. £	335.34	330.86	314.56	305.70	306.74	301.35	326.99
1947-48. Amount paid .. £'000	105,027	76,312	21,659	22,035	9,630	6,009	241,732
Proportion of total .. %	84.58	81.35	89.66	88.60	89.70	88.39	84.59
Average per employee .. £	405.77	401.32	357.14	385.31	349.33	369.39	394.24
1948-49. Amount paid .. £'000	123,263	90,765	26,331	26,140	11,555	7,503	285,557
Proportion of total .. %	84.12	80.74	89.42	88.58	89.38	88.73	84.16
Average per employee .. £	455.88	457.85	405.20	442.11	390.29	425.20	446.20
1949-50. Amount paid .. £'000	135,875	105,135	30,948	29,907	13,692	8,538	324,005
Proportion of total .. %	83.80	80.71	89.06	88.47	89.53	88.51	83.99
Average per employee .. £	499.33	510.86	446.87	447.71	433.40	465.44	492.23
1950-51. Amount paid .. £'000	176,031	130,923	37,870	37,925	17,620	10,336	410,705
Proportion of total .. %	83.29	80.22	88.41	88.04	89.63	88.06	83.50
Average per employee .. £	609.05	610.44	516.83	583.93	515.67	558.67	591.46



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

Particulars.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
FEMALES.							
1938-39. Amount paid .. £'000	6,334	7,021	967	681	445	246	15,694
Proportion of total %	14.20	19.49	8.88	8.34	9.72	9.90	14.70
Average per employee £	103.66	108.25	96.00	86.44	99.58	93.19	103.92
1945-46. Amount paid .. £'000	14,267	13,726	1,834	2,116	846	654	33,443
Proportion of total %	16.28	19.47	10.18	12.61	10.73	13.04	16.25
Average per employee £	172.65	179.26	155.85	156.05	142.62	159.02	171.88
1947-48. Amount paid .. £'000	19,319	17,490	2,504	2,818	1,106	796	44,033
Proportion of total %	15.42	18.65	10.36	11.34	10.30	11.61	15.41
Average per employee £	215.16	222.98	191.38	199.25	173.38	202.32	213.99
1948-49. Amount paid .. £'000	23,273	21,645	3,116	3,370	1,373	953	53,730
Proportion of total %	15.88	19.26	10.58	11.42	10.62	11.27	15.84
Average per employee £	245.02	261.17	216.90	227.81	208.35	234.25	246.83
1949-50. Amount paid .. £'000	26,272	25,120	3,800	3,900	1,601	1,108	61,801
Proportion of total %	16.20	19.29	10.94	11.53	10.47	11.49	16.01
Average per employee £	270.27	291.35	240.93	257.30	231.50	265.32	274.12
1950-51. Amount paid .. £'000	35,308	32,284	4,967	5,154	2,038	1,401	81,152
Proportion of total %	16.71	19.78	11.59	11.96	10.37	11.94	16.50
Average per employee £	338.08	355.57	289.82	322.04	279.55	322.46	338.12

(v) *Managers, Clerical Staff and Other Employees.* A further analysis of salaries and wages paid is given in the following table for 1950-51 and shows the amounts paid to managerial and clerical staff including salaried managers and working directors, chemists, draftsmen and other laboratory and research staff, and those paid to other employees. As previously mentioned, amounts drawn by working proprietors are excluded in all cases:—

FACTORIES: SALARIES AND WAGES PAID TO MANAGERS, CLERICAL STAFF, ETC., AND OTHER EMPLOYEES, AUSTRALIA, 1950-51.,  
(£'000.)

Class of Industry.	Managers, Clerical Staff, Chemists, Draftsmen, etc.		All Other Employees.	
	Males.	Females.	Males.	Females.
I. Treatment of Non-metalliferous Mine and Quarry Products .. .. .	1,136	159	8,660	67
II. Bricks, Pottery, Glass, etc. .. .. .	868	206	9,843	337
III. Chemicals, Dyes, Explosives, Paints, Oils and Grease .. .. .	3,621	881	13,532	2,138
IV. Industrial Metals, Machines, Conveyances .. .. .	25,431	5,302	168,740	7,970
V. Precious Metals, Jewellery and Plate .. .. .	300	107	2,413	283
VI. Textiles and Textile Goods (not Dress) .. .. .	2,375	916	15,878	12,277
VII. Skins and Leather (not Clothing or Footwear) .. .. .	858	149	6,178	1,074
VIII. Clothing (except Knitted) .. .. .	2,567	1,291	14,453	27,479
IX. Food, Drink and Tobacco .. .. .	7,506	1,882	43,946	8,614
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving .. .. .	2,362	439	22,913	259
XI. Furniture of Wood, Bedding, etc. .. .. .	753	239	8,180	871
XII. Paper, Stationery, Printing, Bookbinding, etc. .. .. .	3,397	1,149	21,051	3,706
XIII. Rubber .. .. .	1,072	213	6,028	880
XIV. Musical Instruments .. .. .	88	27	535	74
XV. Miscellaneous Products .. .. .	1,123	371	5,859	1,750
Total, Classes I. to XV. .. .. .	53,457	13,331	348,209	67,779
XVI. Heat, Light and Power .. .. .	843	36	8,196	6
Grand Total .. .. .	54,300	13,367	356,405	67,785
Average paid per employee .. .. .	784.19	354.00	570.12	335.16

3. Power, Fuel and Light Used.—(i) *In Classes of Industry, 1950-51.* The expenditure by factories on power, fuel and light, including the value of lubricants and water, is of considerable importance; in 1950-51 it amounted to a new high level of £71,682,000, an increase of £16,852,000 as compared with the previous year and approximately four and one half times the corresponding value in 1938-39. The following table shows the value of power, fuel and light, etc., used in the different classes of industry:—

FACTORIES : VALUE OF POWER, FUEL AND LIGHT USED(a), 1950-51.  
(£'000.)

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metalliferous Mine and Quarry Products .. .. .	998	722	276	262	261	136	2,655
II. Bricks, Pottery, Glass, etc. . . . .	2,349	1,075	143	295	242	66	4,170
III. Chemicals, Dyes, Explosives, Paints, Oils and Grease .. . . .	1,925	1,218	126	433	174	45	3,921
IV. Industrial Metals, Machines, Conveyances .. . . .	12,123	2,547	717	2,593	427	524	18,931
V. Precious Metals, Jewellery and Plate .. . . .	52	65	6	14	5	..	142
VI. Textiles and Textile Goods (not Dress) .. . . .	823	1,195	37	138	25	58	2,276
VII. Skins and Leather (not Clothing or Footwear) .. . . .	270	332	50	99	39	38	828
VIII. Clothing (except Knitted) .. . . .	463	516	79	68	46	17	1,189
IX. Food, Drink and Tobacco .. . . .	3,435	3,041	1,655	894	578	257	9,860
X. Sawmills, Joinery, Boxes, etc.; Wood Turning and Carving .. . . .	662	353	250	75	133	74	1,547
XI. Furniture of Wood, Bedding, etc. .. . . .	86	51	26	24	12	4	203
XII. Paper, Stationery, Printing, Bookbinding, etc. .. . . .	653	640	69	121	37	375	1,895
XIII. Rubber .. . . .	473	533	51	38	7	9	1,111
XIV. Musical Instruments .. . . .	30	3	..	..	..	..	33
XV. Miscellaneous Products .. . . .	233	204	13	26	5	3	484
Total, Classes I. to XV. .. . . .	24,575	12,495	3,498	5,080	1,991	1,606	49,245
XVI. Heat, Light and Power .. . . .	10,806	4,876	2,797	2,187	1,768	3	22,437
Grand Total .. . . .	35,381	17,371	6,295	7,267	3,759	1,609	71,682

(a) Includes value of lubricants and water.

(ii) *Values of Items, 1950-51.* 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), 1950-51.  
(£'000.)

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Coal, Black .. . . .	12,641	2,828	3,363	(b) 2,247	1,135	396	(b) 22,610
"    Brown .. . . .	..	2,701	..	..	..	..	2,701
Brown Coal Briquettes .. . . .	..	1,336	..	..	..	..	1,336
Coke .. . . .	6,301	752	94	(c) 1,313	97	144	(c) 8,701
Wood .. . . .	371	742	354	299	580	172	2,518
Fuel Oil .. . . .	5,007	3,041	645	1,227	850	224	10,994
Tar (Fuel) .. . . .	349	170	5	62	14	9	609
Electricity .. . . .	7,292	4,025	1,244	1,563	723	563	15,410
Gas .. . . .	1,521	357	72	107	41	13	2,111
Other (Charcoal, etc.) .. . . .	77	372	107	151	102	1	810
Water .. . . .	1,132	622	165	167	106	33	2,225
Lubricating Oils .. . . .	690	425	246	131	111	54	1,637
Total .. . . .	35,381	17,371	6,295	7,267	3,759	1,609	71,682

(a) Includes value of lubricants and water. (b) Includes £507,000, the value of 263,000 tons of Leigh Creek coal. (c) Includes £13,000, the value of 15,000 tons of coke breeze.

(iii) *Quantities of Fuel Used, 1950-51.* The following table shows the quantities of fuel used in factories in each State during the year:—

**FACTORIES : QUANTITIES OF FUEL USED, 1950-51.**

Particulars.	Unit.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Coal, Black .. .. .	'000 tons	4,569	622	1,149	(a) 699	459	141	(a) 7,639
"   Brown .. .. .	"	"	5,779	"	"	"	"	5,779
Brown Coal Briquettes	"	"	505	"	"	"	"	505
Coke .. .. .	"	1,734	150	24	(b) 244	22	16	(b) 2,190
Wood .. .. .	"	194	657	249	181	435	126	1,842
Fuel Oil .. .. .	'000 gals.	86,368	51,590	8,226	21,974	11,210	3,043	182,411
Tar (Fuel) .. .. .	"	20,893	4,665	158	1,971	862	405	28,934

(a) Includes 263,000 tons of Leigh Creek coal. (b) Includes 15,000 tons of coke breeze.

(iv) *Total Value, 1938-39, 1945-46 and 1947-48 to 1950-51.* The next table shows the amounts expended on power, fuel and light during these years:—

**FACTORIES : VALUE OF POWER, FUEL AND LIGHT USED.(a)**  
(£'000.)

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
1938-39 .. .. .	7,652	4,000	1,423	1,018	1,169	438	15,700
1945-46 .. .. .	12,207	6,941	2,298	2,851	1,836	904	27,937
1947-48 .. .. .	17,314	9,015	3,184	4,281	2,285	1,015	37,094
1948-49 .. .. .	21,611	11,337	4,086	5,123	2,745	1,160	46,062
1949-50 .. .. .	25,536	13,695	5,119	5,942	3,184	1,354	54,830
1950-51 .. .. .	35,381	17,371	6,295	7,267	3,759	1,609	71,682

(a) Includes value of lubricants and water.

4. *Value of Materials Used.—(i) In Classes of Industry, 1950-51.* 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 1950-51 reached £1,235,281,000, representing 57.4 per cent. of the value of the final output (see par. 5). The following table shows the value of the materials used in various classes of industry in each State:—

**FACTORIES : VALUE OF MATERIALS USED, 1950-51.**  
(£'000.)

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metalliferous Mine and Quarry Products .. .. .	11,998	5,316	1,714	1,528	1,126	667	22,349
II. Bricks, Pottery, Glass, etc. .. .. .	4,578	2,137	345	879	370	89	8,398
III. Chemicals, Dyes, Explosives, Paints, Oils and Grease .. .. .	46,735	27,348	3,826	6,413	4,933	604	89,859
IV. Industrial Metals, Machines, Conveyances .. .. .	191,880	81,707	21,323	51,862	10,165	9,884	366,821
V. Precious Metals, Jewellery and Plate .. .. .	1,034	2,342	61	119	65	4	3,625
VI. Textiles and Textile Goods (not Dress) .. .. .	39,183	60,151	3,750	4,722	2,550	4,416	114,772
VII. Skins and Leather (not Clothing or Footwear) .. .. .	18,685	14,031	2,977	14,773	2,057	1,961	54,484
VIII. Clothing (except Knitted) .. .. .	33,537	34,103	4,770	2,833	2,143	265	77,651
IX. Food, Drink and Tobacco .. .. .	92,339	90,040	79,233	22,204	16,206	9,319	309,341
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving .. .. .	22,944	14,483	7,723	4,959	3,168	2,564	55,841
XI. Furniture of Wood, Bedding, etc. .. .. .	8,433	6,541	2,697	1,932	1,295	362	21,260
XII. Paper, Stationery, Printing, Bookbinding, etc. .. .. .	24,547	18,896	3,127	2,648	1,441	1,926	52,585
XIII. Rubber .. .. .	13,748	13,731	1,473	712	141	119	29,924
XIV. Musical Instruments .. .. .	947	65	5	4	3	"	1,024
XV. Miscellaneous Products .. .. .	6,437	7,253	328	990	105	71	15,184
Total, Classes I. to XV. .. .. .	517,025	378,144	133,352	116,578	45,768	32,251	1,223,118
XVI. Heat, Light and Power .. .. .	5,397	3,858	1,105	969	684	150	12,163
Grand Total .. .. .	522,422	382,002	134,457	117,547	46,452	32,401	1,235,281

(ii) *Total Amount, 1938-39, 1945-46 and 1947-48 to 1950-51.* The following table shows the values of materials used in factories for these years:—

**FACTORIES : VALUE OF MATERIALS USED.**  
(£'000.)

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
1938-39 .. ..	120,502	82,971	42,596	20,309	9,604	5,321	281,303
1945-46 .. ..	201,706	159,798	58,633	37,770	18,361	12,019	488,287
1947-48 .. ..	292,557	209,896	79,174	61,620	24,957	15,525	683,729
1948-49 .. ..	336,914	252,741	97,045	75,227	29,199	19,422	810,548
1949-50 .. ..	384,467	293,528	108,682	83,277	34,750	24,390	929,094
1950-51 .. ..	522,422	382,002	134,457	117,547	46,452	32,401	1,235,281

5. *Value of Output.*—(i) *In Classes of Industry, 1950-51.* The value of the output of factories in the various classes in each State in 1950-51 is shown in the following table. It represents the selling value at the factory of goods made or processed during the year, including by-products. In addition, it includes the amount received for other work done such as repair work, assembling and making up for customers. The difference between the sum of the values of the materials and of the power, fuel and light used, and the value of output is the real value of factory production (*see par. 6*).

**FACTORIES : VALUE OF OUTPUT, 1950-51.**  
(£'000.)

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metalliferous Mine and Quarry Products .. ..	20,285	11,457	3,371	3,127	2,639	1,450	42,329
II. Bricks, Pottery, Glass, etc. .. ..	15,971	7,286	1,226	2,783	1,612	357	29,235
III. Chemicals, Dyes, Explosives, Paints, Oils and Grease .. ..	77,359	45,720	5,340	10,119	6,874	1,072	146,484
IV. Industrial Metals, Machines, Conveyances .. ..	356,042	175,170	49,938	89,340	22,596	19,658	712,744
V. Precious Metals, Jewellery and Plate .. ..	2,701	5,126	256	397	248	17	8,745
VI. Textiles and Textile Goods (not Dress) .. ..	59,927	90,126	5,098	6,674	3,419	6,413	171,657
VII. Skins and Leather (not Clothing or Footwear) .. ..	24,493	19,859	4,102	16,240	2,723	2,616	70,033
VIII. Clothing (except Knitted) .. ..	63,385	65,834	9,604	6,344	4,682	748	150,597
IX. Food, Drink and Tobacco .. ..	137,066	130,329	101,334	32,026	22,945	13,823	437,523
X. Sawmills, Joinery, Boxes, etc.; Wood Turning and Carving .. ..	39,938	26,849	15,361	8,276	6,892	4,952	102,268
XI. Furniture of Wood, Bedding, etc. .. ..	15,196	11,898	4,936	3,494	2,315	761	38,600
XII. Paper, Stationery, Printing, Bookbinding, etc. .. ..	49,904	37,372	7,004	5,983	3,428	5,514	109,205
XIII. Rubber .. ..	19,081	20,772	2,342	1,364	296	245	44,100
XIV. Musical Instruments .. ..	2,050	188	34	31	14	..	2,317
XV. Miscellaneous Products .. ..	14,084	14,146	675	1,741	331	205	31,182
Total, Classes I. to XV. .. ..	897,482	662,132	210,621	187,939	81,014	57,831	2,097,019
XVI. Heat, Light and Power .. ..	26,430	12,901	5,591	4,417	3,417	793	53,549
Grand Total .. ..	923,912	675,033	216,212	192,356	84,431	58,624	2,150,568

(ii) *Total, 1938-39, 1945-46 and 1947-48 to 1950-51.* The following table shows the value of output in each State during these years:—

**FACTORIES : VALUE OF OUTPUT.**  
(£'000.)

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
1938-39 .. ..	218,419	152,968	63,321	35,005	19,549	11,158	500,420
1945-46 .. ..	367,092	286,990	91,201	66,223	34,023	22,119	867,648
1947-48 .. ..	528,482	377,412	125,244	104,571	45,626	28,784	1,210,119
1948-49 .. ..	609,724	446,838	154,670	124,018	53,418	36,657	1,425,325
1949-50 .. ..	693,203	526,466	175,156	141,528	63,978 <sup>3</sup>	45,080	1,645,411
1950-51 .. ..	923,912	675,033	216,212	192,356	84,431	58,624	2,150,568

6. Value of Production.—(i) *In Classes of Industry, 1950-51.* The value of production for any industry was defined at the Conference of Statisticians at Sydney in 1925 as "the value of consumable commodities produced during the year, deducting, so far as possible, the value of goods consumed in process of production".

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

The figure thus calculated is, however, not the net value of production. The deduction for depreciation, particulars of which are shown in § 9, par. 4, was estimated at £37,014,000 for 1950-51. Many miscellaneous expenses, such as taxation, insurance, advertising and other sundry charges have not been taken into account. Therefore, it must not be inferred that when wages and salaries are deducted from the value of production the whole of the "surplus" is available for interest and profit.

The value of factory production therefore approximates "net value added" in the manufacturing process. It amounted in 1950-51 to £843.6 million to which Class IV., Industrial Metals, etc., with £327 million or more than five times the value of production of this class in 1938-39, made the greatest contribution. This total value of production in 1950-51 represented an increase of £182.1 million over the figure for 1949-50 and £640 million (315 per cent.) over the value of production recorded in 1938-39.

The following table shows the value of production in 1950-51 in each State for the various classes of industry:—

FACTORIES : VALUE OF PRODUCTION, 1950-51.  
(£'000.)

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metalliferous Mine and Quarry Products .. .. .	7,289	5,419	1,381	1,337	1,252	647	17,325
II. Bricks, Pottery, Glass, etc. . . . .	9,045	4,076	737	1,609	999	201	16,667
III. Chemicals, Dyes, Explosives, Paints, Oils and Grease .. . . .	28,698	17,155	1,388	3,274	1,767	421	52,703
IV. Industrial Metals, Machines, Conveyances .. . . .	152,038	90,916	27,898	34,886	12,005	9,250	326,993
V. Precious Metals, Jewellery and Plate .. . . .	1,616	2,720	189	263	177	13	4,978
VI. Textiles and Textile Goods (not Dress) .. . . .	19,921	28,780	1,311	1,813	844	1,939	54,608
VII. Skins and Leather (not Clothing or Footwear) .. . . .	5,538	5,496	1,075	1,368	627	617	14,721
VIII. Clothing (except Knitted) .. . . .	29,385	31,214	4,756	3,442	2,494	4,667	71,757
IX. Food, Drink and Tobacco .. . . .	41,292	37,248	20,447	8,928	6,161	4,246	118,322
X. Sawmills, Joinery, Boxes, etc.; Wood Turning and Carving .. . . .	16,332	12,012	7,389	3,242	3,591	2,315	44,881
XI. Furniture of Wood, Bedding, etc. .. . . .	6,678	5,304	2,213	1,539	1,008	395	17,137
XII. Paper, Stationery, Printing, Bookbinding, etc. .. . . .	24,705	17,836	3,807	3,213	1,950	3,214	54,725
XIII. Rubber .. . . .	4,859	6,508	818	614	148	118	13,065
XIV. Musical Instruments .. . . .	1,073	121	28	27	11	..	1,260
XV. Miscellaneous Products .. . . .	7,413	6,689	334	725	221	132	15,514
Total, Classes I. to XV. . . . .	355,882	271,494	73,771	66,280	33,255	23,974	824,656
XVI. Heat, Light and Power .. . . .	10,227	4,166	1,689	1,262	965	640	18,949
Grand Total .. . . .	366,109	275,660	75,460	67,542	34,220	24,614	843,605

(ii) *Total and Averages, 1938-39, 1945-46 and 1947-48 to 1950-51.* The value of production and the amount per person employed and per head of population are shown in the following table. For Australia as a whole the value of production per head of population increased from £29.41 per head in 1938-39 to £101.5 per head in 1950-51. For value per person employed, the increase was not quite so pronounced (from £360 per head in 1938-39 to £871 in 1950-51) owing to the considerable increase in the numbers of persons employed in 1950-51 as compared with 1938-39.

**FACTORIES : VALUE OF PRODUCTION.**

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
VALUE. (£'000.)							
1938-39 .. ..	90,266	65,996	19,301	13,679	8,776	5,399	203,417
1945-46 .. ..	153,179	120,250	30,270	25,002	13,826	9,196	352,323
1947-48 .. ..	218,611	158,501	42,886	38,670	18,384	12,245	489,297
1948-49 .. ..	251,199	182,760	53,540	43,668	21,474	16,074	568,715
1949-50 .. ..	283,201	219,244	61,354	52,309	26,044	19,336	661,488
1950-51 .. ..	366,109	275,660	75,460	67,542	34,220	24,614	843,605

**PER PERSON EMPLOYED. (£.)**

1938-39 .. ..	395	327	357	315	378	391	360
1945-46 .. ..	493	469	462	405	457	478	473
1947-48 .. ..	602	570	559	527	511	578	576
1948-49 .. ..	664	626	645	575	560	711	639
1949-50 .. ..	741	722	690	666	639	823	721
1950-51 .. ..	900	870	798	812	782	1,033	871

**PER HEAD OF POPULATION. (£.)**

1938-39 .. ..	32.99	35.25	19.15	22.99	18.79	22.72	29.41
1945-46 .. ..	52.23	59.66	27.92	40.57	28.21	36.74	47.42
1947-48 .. ..	72.71	76.60	38.54	59.28	36.13	46.77	64.04
1948-49 .. ..	81.98	86.48	47.18	65.65	41.12	59.92	72.92
1949-50 .. ..	89.28	101.02	52.75	76.16	47.72	69.70	82.18
1950-51 .. ..	111.82	123.24	63.26	94.99	59.89	85.59	101.50

7. *Value of Output and Cost of Production.*—As the total value of the output for Australia for 1950-51 was estimated at £2,150,568,000, there remained, after payment of £1,235,281,000 for the value of the materials used, £491,857,000 for salaries and wages, and £71,682,000 for power, fuel and light, a balance of £351,748,000 to provide for all other costs and overhead expenses such as rent, interest, insurance, pay-roll tax, income tax, depreciation, etc., as well as drawings by working proprietors and profit. The following table gives corresponding particulars for each State expressed absolutely and as percentages of the total value of the output for the year 1950-51 :—

**FACTORIES : VALUE OF OUTPUT AND COST OF PRODUCTION, 1950-51.**

State.	Materials Used. (a)	Power, Fuel and Light. (b)	Salaries and Wages.	Balance (Output less Materials, Fuel and Wages.)(c)	Total Value of Output.
VALUE AND COST, ETC. (£'000.)					
New South Wales .. ..	522,422	35,381	211,339	154,770	923,912
Victoria .. ..	382,002	17,371	163,207	112,453	675,033
Queensland .. ..	134,457	6,295	42,837	32,623	216,212
South Australia .. ..	117,547	7,267	43,079	24,463	192,356
Western Australia .. ..	46,452	3,759	19,658	14,562	84,431
Tasmania .. ..	32,401	1,609	11,737	12,877	58,624
Australia .. ..	1,235,281	71,682	491,857	351,748	2,150,568

(a) Includes the value of containers, packing, etc., also the cost of tools replaced and repairs to plant.  
 (b) Includes lubricants and water. (c) See paragraph preceding this table.

FACTORIES: VALUE OF OUTPUT AND COST OF PRODUCTION, 1950-51—  
*continued.*

State.	Materials Used. (a)	Power, Fuel and Light. (b)	Salaries and Wages.	Balance (Output less Materials, Fuel and Wages.)(c)	Total Value of Output.
PROPORTION OF COSTS, ETC., TO TOTAL VALUE. (Per Cent.)					
New South Wales ..	56.54	3.83	22.88	16.75	100.00
Victoria ..	56.60	2.57	24.18	16.65	100.00
Queensland ..	62.19	2.91	19.81	15.09	100.00
South Australia ..	61.10	3.78	22.40	12.72	100.00
Western Australia ..	55.02	4.45	23.28	17.25	100.00
Tasmania ..	55.27	2.75	20.02	21.96	100.00
Australia ..	57.44	3.33	22.87	16.36	100.00

(a) Includes the value of containers, packing, etc., also the cost of tools replaced and repairs to plant.  
(b) Includes lubricants and water. (c) See paragraph preceding this table.

§ 9. Value of Land, Buildings, Plant and Machinery.

1. *General.*—The following statement shows the value of land and buildings and of plant and machinery used in connexion with manufacturing industries during the year 1950-51:—

FACTORIES: VALUE OF LAND, BUILDINGS, PLANT AND MACHINERY(a), 1950-51.  
(£'000.)

Value of—	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
Land and buildings	130,468	101,326	23,958	23,303	13,380	10,971	303,406
Plant and machinery	136,492	107,261	34,235	26,759	14,713	19,470	338,930
Total ..	266,960	208,587	58,193	50,062	28,093	30,441	642,336

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

The values recorded in this section are generally the values apportioned in the books of the individual firms after allowance has been made for depreciation, but they include estimates of the capital value of premises and plant rented. The totals shown in the table consequently do not represent the actual amount of capital invested in the items specified.

2. *Value of Land and Buildings.*—(i) *Total for Australia.* The following table shows for Australia as a whole the approximate value of land and buildings occupied in connexion with manufacturing industries for 1938-39, 1945-46 and 1947-48 to 1950-51.

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

Class of Industry.	1938-39.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
I. Treatment of Non-metalliferous Mine and Quarry Products ..	2,779	3,020	3,860	4,331	4,851	6,281
II. Bricks, Pottery, Glass, etc. . .	2,953	3,331	3,952	4,246	4,719	5,883
III. Chemicals, Dyes, Explosives, Paints, Oils and Grease ..	7,377	18,461	18,624	20,254	22,076	20,920
IV. Industrial Metals, Machines, Conveyances ..	34,841	59,530	64,868	73,247	81,682	97,021
V. Precious Metals, Jewellery and Plate ..	633	752	1,279	1,515	1,614	1,688
VI. Textiles and Textile Goods (not Dress) ..	6,000	9,112	10,603	11,905	14,838	18,004
VII. Skins and Leather (not Clothing or Footwear) ..	2,096	2,966	3,441	3,777	4,158	4,764
VIII. Clothing (except Knitted) ..	10,624	13,994	16,917	18,440	19,763	22,128
IX. Food, Drink and Tobacco ..	33,273	40,129	45,451	48,075	52,197	60,217
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving ..	4,107	5,441	6,912	8,072	9,442	11,680
XI. Furniture of Wood, Bedding, etc. ..	2,533	2,829	3,835	4,235	4,828	5,776
XII. Paper, Stationery, Printing, Bookbinding, etc. . .	10,639	11,605	13,023	14,517	16,234	20,828
XIII. Rubber ..	1,676	1,865	2,152	2,476	3,038	3,792
XIV. Musical Instruments ..	105	133	234	268	325	387
XV. Miscellaneous Products ..	1,433	2,965	3,680	3,929	4,360	5,035
Total, Classes I. to XV. . .	121,069	176,133	198,831	219,287	244,125	284,404
XVI. Heat, Light and Power ..	9,851	10,806	12,312	13,453	15,424	19,002
Grand Total ..	130,920	186,939	211,143	232,740	259,549	303,406

(a) Includes estimated value of rented premises.

(ii) *In Classes of Industry in States, 1950-51.* The following table gives particulars of the various classes of industry in each State.

**FACTORIES : VALUE OF LAND AND BUILDINGS(a), 1950-51.**  
(£'000.)

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metalliferous Mine and Quarry Products ..	2,766	1,899	409	383	314	510	6,281
II. Bricks, Pottery, Glass, etc. . .	3,427	1,440	241	411	259	105	5,883
III. Chemicals, Dyes, Explosives, Paints, Oils and Grease ..	9,774	7,830	433	1,633	1,015	235	20,920
IV. Industrial Metals, Machines, Conveyances ..	45,596	30,160	6,901	7,919	3,714	2,731	97,021
V. Precious Metals, Jewellery and Plate ..	555	870	62	104	86	11	1,688
VI. Textiles and Textile Goods (not Dress) ..	6,619	9,985	440	495	205	260	18,004
VII. Skins and Leather (not Clothing or Footwear) ..	1,772	1,863	238	509	165	217	4,764
VIII. Clothing (except Knitted) ..	9,842	8,644	1,276	1,251	940	175	22,128
IX. Food, Drink and Tobacco ..	21,408	19,256	8,616	5,129	3,648	2,160	60,217
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving ..	4,917	3,410	1,241	873	791	448	11,680
XI. Furniture of Wood, Bedding, etc. ..	2,096	1,997	725	442	361	155	5,776
XII. Paper, Stationery, Printing, Bookbinding, etc. . .	8,490	6,692	1,265	1,109	669	2,603	20,828
XIII. Rubber ..	1,249	1,857	382	175	74	55	3,792
XIV. Musical Instruments ..	296	66	3	15	7	..	387
XV. Miscellaneous Products ..	2,445	2,037	125	253	111	64	5,035
Total, Classes I. to XV. . .	121,252	98,006	22,357	20,701	12,359	9,729	284,404
XVI. Heat, Light and Power ..	9,216	3,320	1,601	2,602	1,021	1,242	19,002
Grand Total ..	130,468	101,326	23,958	23,303	13,380	10,971	303,406

(a) Includes estimated value of rented premises.



(iii) *Totals in each State.* The following table shows the value of land and buildings in each State for the years 1938-39, 1945-46 and 1947-48 to 1950-51 :—

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

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
1938-39..	57,353	42,026	12,299	8,711	6,814	3,717	130,920
1945-46..	80,308	60,265	14,331	18,447	8,283	5,305	186,939
1947-48..	91,860	66,229	16,609	20,691	9,483	6,271	211,143
1948-49..	101,241	73,384	18,508	22,218	10,054	7,335	232,740
1949-50..	110,597	84,124	20,806	24,317	11,055	8,650	259,549
1950-51..	130,468	101,326	23,958	23,303	13,380	10,971	303,406

(a) Includes estimated value of rented premises.

Prior to 1929-30 the increase in the value of land and buildings was uninterrupted, rising from £23 million in 1903 to £118 million in 1929-30, a growth of £95 million in 27 years. During the three years ended 1932-33, there was a decline of £12 million to £105.8 million, but since that year the value has risen annually and stood at £303.4 million in 1950-51.

3. *Value of Plant and Machinery.*—(i) *Total for Australia, 1938-39, 1945-46 and 1947-48 to 1950-51.* The following table shows for Australia the approximate value of plant and machinery used in factories.

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

Class of Industry.	1938-39.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
I. Treatment of Non-metalliferous Mine and Quarry Products ..	7,028	4,916	6,061	7,342	8,055	9,239
II. Bricks, Pottery, Glass, etc. ..	3,145	2,968	3,700	4,333	4,991	6,057
III. Chemicals, Dyes, Explosives, Paints, Oils and Grease ..	6,754	17,792	17,516	19,255	23,518	26,247
IV. Industrial Metals, Machines, Conveyances ..	33,938	53,902	61,080	70,155	77,597	90,801
V. Precious Metals, Jewellery and Plate ..	197	253	581	721	770	808
VI. Textiles and Textile Goods (not Dress) ..	6,657	7,737	10,201	12,797	17,485	21,218
VII. Skins and Leather (not Clothing or Footwear) ..	973	1,584	1,864	2,063	2,535	2,994
VIII. Clothing (except Knitted) ..	2,557	4,135	5,905	6,923	7,792	9,294
IX. Food, Drink and Tobacco ..	32,101	33,234	37,999	42,796	48,318	56,489
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving ..	3,908	5,023	6,991	8,481	10,377	12,614
XI. Furniture of Wood, Bedding, etc. ..	728	741	1,190	1,427	1,679	2,035
XII. Paper, Stationery, Printing, Bookbinding, etc. ..	9,188	8,556	11,517	15,027	19,193	27,616
XIII. Rubber ..	1,368	1,219	1,855	2,244	2,754	3,456
XIV. Musical Instruments ..	12	23	80	134	154	227
XV. Miscellaneous Products ..	758	1,856	2,356	2,806	3,275	4,008
Total, Classes I. to XV. ..	108,412	143,939	168,896	196,504	228,493	273,103
XVI. Heat, Light and Power ..	35,250	41,606	44,823	49,990	57,109	65,827
Grand Total ..	143,662	185,545	213,719	246,494	285,602	338,930

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

Except for the years 1930-31 to 1933-34, when decreases were recorded, there has been a continuous increase in the value of plant and machinery in Australia. The increase in 1950-51 of £53.3 million over 1949-50 extended over all industrial classes. The greatest increase occurred in Class IV., Industrial Metals, Machines, Implements and Conveyances.

(ii) *Totals in each State.* The following table shows the value of plant and machinery in each State during the years 1938-39, 1945-46 and 1947-48 to 1950-51. During 1950-51 increases occurred in all States, New South Wales showing the largest increase, £22.6 million.

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

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
1938-39 ..	62,693	38,627	18,095	9,750	8,095	6,402	143,662
1945-46 ..	72,561	58,537	18,690	19,018	8,508	8,231	185,545
1947-48 ..	86,714	65,829	21,831	20,239	9,190	9,976	213,719
1948-49 ..	99,812	76,080	25,757	22,792	9,800	12,253	246,494
1949-50 ..	113,864	92,748	28,904	24,901	11,457	13,728	285,602
1950-51 ..	136,492	107,261	34,235	26,759	14,713	19,470	338,930

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

(iii) *Value according to Class of Industry, 1950-51.* The following table shows the value of plant and machinery used in factories in each State during 1950-51 according to class of industry.

FACTORIES : VALUE OF PLANT AND MACHINERY(a), 1950-51.  
(£'000.)

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metalliferous: Mine and Quarry Products ..	4,832	2,151	555	1,009	390	302	9,239
II. Bricks, Pottery, Glass, etc. ..	3,440	1,432	265	393	340	187	6,057
III. Chemicals, Dyes, Explosives, Paints, Oils and Grease ..	11,595	9,867	485	2,472	1,389	439	26,247
IV. Industrial Metals, Machines, Conveyances ..	46,697	25,367	5,633	8,567	2,488	2,049	90,801
V. Precious Metals, Jewellery and Plate ..	251	462	25	41	25	4	808
VI. Textiles and Textile Goods (not Dress) ..	8,003	11,521	721	353	173	447	21,218
VII. Skins and Leather (not Clothing or Footwear) ..	1,116	1,066	234	302	139	137	2,994
VIII. Clothing (except Knitted) ..	3,794	3,913	579	531	383	94	9,294
IX. Food, Drink and Tobacco ..	16,964	15,723	14,660	4,290	3,243	1,609	56,489
X. Sawmills, Joinery, Boxes, etc.; Wood Turning and Carving ..	4,795	3,238	2,195	599	1,066	721	12,614
XI. Furniture of Wood, Bedding, etc. ..	763	578	271	195	171	57	2,035
XII. Paper, Stationery, Printing, Bookbinding, etc. ..	8,474	9,228	1,476	1,142	698	6,598	27,616
XIII. Rubber ..	1,179	1,636	406	175	34	26	3,456
XIV. Musical Instruments ..	184	38	3	1	1	..	227
XV. Miscellaneous Products ..	1,732	1,937	77	190	46	26	4,008
Total, Classes I. to XV.	113,819	88,157	27,585	20,260	10,586	12,696	273,103
XVI. Heat, Light and Power ..	22,673	19,104	6,650	6,499	4,127	6,774	65,827
Grand Total ..	136,492	107,261	34,235	26,759	14,713	19,470	338,930

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

4. *Depreciation of Land and Buildings and Plant and Machinery, 1950-51.*—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, 1950-51.

( £'000.)

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metalliferous Mine and Quarry Products ..	764	259	109	83	47	31	1,293
II. Bricks, Pottery, Glass, etc. . .	625	240	32	55	46	14	1,012
III. Chemicals, Dyes, Explosives, Paints, Oils and Grease ..	1,273	759	82	232	192	135	2,673
IV. Industrial Metals, Machines, Conveyances ..	5,099	2,975	733	1,244	1,085	717	11,853
V. Precious Metals, Jewellery and Plate ..	39	73	3	7	4	1	127
VI. Textiles and Textile Goods (not Dress) ..	946	1,789	62	111	36	78	3,022
VII. Skins and Leather (not Clothing or Footwear) ..	124	164	25	58	20	39	430
VIII. Clothing (except Knitted) ..	605	498	67	56	44	13	1,283
IX. Food, Drink and Tobacco ..	1,614	2,194	1,385	612	313	195	6,613
X. Sawmills, Joinery, Boxes, etc.; Wood Turning and Carving ..	637	436	254	112	168	69	1,676
XI. Furniture of Wood, Bedding, etc. ..	139	99	40	33	30	6	347
XII. Paper, Stationery, Printing, Bookbinding, etc. ..	1,104	1,022	182	152	98	460	3,018
XIII. Rubber ..	300	295	136	38	6	6	781
XIV. Musical Instruments ..	24	3	..	..	..	..	27
XV. Miscellaneous Products ..	265	289	13	26	5	3	601
Total, Classes I. to XV.	13,858	11,095	3,123	2,819	2,094	1,767	34,756
XVI. Heat, Light and Power ..	919	232	315	507	182	103	2,258
Grand Total ..	14,777	11,327	3,438	3,326	2,276	1,870	37,014

5. Land and Buildings, Plant and Machinery—Values, Additions and Replacements, Depreciation, 1938-39, 1945-46 and 1947-48 to 1950-51.—The following table summarizes the recorded totals for Australia, in this section, and also includes particulars of additions and replacements.

FACTORIES : VALUE OF LAND AND BUILDINGS, PLANT AND MACHINERY, AUSTRALIA.

( £'000.)

Year.	Book Values as at 30th June.(a)		Additions and Replacements during year.		Depreciation allowed during year.	
	Land and Buildings.	Plant and Machinery.	Land and Buildings.	Plant and Machinery.	Land and Buildings.	Plant and Machinery.
1938-39 ..	130,920	143,662	5,578	17,781	1,911	8,736
1945-46 ..	186,939	185,545	6,245	21,766	2,537	14,597
1947-48 ..	211,143	213,719	9,739	35,616	2,537	18,054
1948-49 ..	232,740	246,494	15,030	47,227	2,826	21,880
1949-50 ..	259,549	285,602	18,551	59,562	2,942	26,161
1950-51 ..	303,406	338,930	27,293	83,219	3,775	33,239

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

## § 10. Principal Factory Products.

The monthly factory production of certain commodities is shown in the monthly and quarterly publications of this Bureau and in the *Secondary Industries Bulletin*.

The following table shows the total recorded production of some of the principal articles manufactured in Australia during the years ended 30th June, 1949 to 1951. A more complete list, together with values, where available, is published in the *Secondary Industries Bulletin*.

## QUANTITY OF PRINCIPAL ARTICLES PRODUCED IN FACTORIES: AUSTRALIA.

Article.	Unit of Quantity.	1948-49.	1949-50.	1950-51.
Acid—				
Nitric .. .. .	Ton	3,292	6,361	7,367
Sulphuric .. .. .	"	585,298	612,245	639,856
Aerated and Carbonated Waters .. .. .	'ooo gal.	44,339	50,190	55,000
Asbestos Cement Building Sheets .. .. .	'ooo sq. yd.	18,559	18,345	21,247
Bacon and Ham .. .. .	'ooo lb.	92,491	89,946	81,863
Bags—				
Leather, Fibre, etc.—				
Handbags—				
Leather .. .. .	No.	1,070,849	1,060,057	903,333
Plastic .. .. .	"	344,218	502,666	565,945
Other .. .. .	"	59,104	88,462	128,498
Kitbags .. .. .	"	94,978	109,246	(a)
School Bags .. .. .	"	73,328	107,222	118,712
Suitcases .. .. .	"	661,592	683,682	(b) 1,185,115
Trunks .. .. .	"	31,768	4,690	4,032
All other .. .. .	"	457,164	611,749	324,877
Textile, Hessian, etc. .. .. .	Doz.	1,597,732	1,594,822	1,895,236
Baking Powder .. .. .	lb.	1,004,984	929,326	951,839
Bath Heaters—				
Electric .. .. .	No.	12,803	13,313	28,361
Gas .. .. .	"	32,954	28,285	33,007
Solid Fuel and Oil .. .. .	"	56,084	70,007	73,291
Bathing Suits .. .. .	Doz.	106,710	97,731	125,334
Baths, all types .. .. .	No.	157,801	172,197	181,103
Batteries, Wet Cell type .. .. .	"	872,224	1,113,875	1,091,830
Beer (excluding Waste Beer) .. .. .	'ooo gal.	144,452	154,189	170,635
Biscuits .. .. .	'ooo lb.	107,088	117,904	130,116
Blankets .. .. .	Fair	689,154	895,586	972,576
Boots, Shoes and Slippers—				
Boots .. .. .	'ooo pair	1,828	1,813	16,902
Shoes .. .. .	"	13,619	13,597	2,004
Sandals .. .. .	"	1,773	1,789	8,641
Slippers .. .. .	"	8,832	6,582	8,641
Bran (Wheaten) .. .. .	Ton (2,000 lb.)	318,705	273,335	302,222
Brassieres .. .. .	Doz.	264,808	318,827	369,583
Bricks, Clay .. .. .	'ooo	617,391	604,066	689,431
Brooms .. .. .	Gross	17,368	19,079	21,757
Brushes .. .. .	"	124,733	126,565	155,861
Butter .. .. .	Ton	161,090	168,075	159,631
Candles .. .. .	Cwt.	15,692	21,245	12,871
Cardigans, Sweaters, etc. .. .. .	Doz.	568,876	604,632	710,141
Cement, Portland .. .. .	Ton	1,031,489	1,167,189	1,234,626
Cheese .. .. .	"	43,160	44,777	44,300
Cigarettes .. .. .	'ooo lb.	9,701	10,341	10,679
Cleansing and Scouring Powders .. .. .	Cwt.	73,062	62,380	90,650
Cloth—				
Cotton .. .. .	'ooo sq. yd.	24,670	32,739	32,357
Woollen .. .. .	"	40,430	36,908	37,026
Coke—				
Metallurgical .. .. .	Ton	1,150,039	1,182,773	1,515,782
Other .. .. .	"	1,181,516	1,094,982	1,111,854
Colours—				
Dry .. .. .	Cwt.	54,153	58,130	81,828
Ground in Oil (c) .. .. .	"	9,934	20,857	11,819
Confectionery—				
Chocolate .. .. .	'ooo lb.	67,612	78,742	69,122
Other .. .. .	"	69,941	70,744	73,429
Coppers—				
Electric .. .. .	No.	24,517	29,995	47,759
Gas .. .. .	"	29,980	36,861	43,394
Inserts (including Oil Coppers) .. .. .	"	105,092	110,670	125,409
Cordials and Syrups .. .. .	'ooo gal.	4,268	4,523	5,349
Corsets and Corsetslets .. .. .	Doz.	133,996	109,814	122,248

(a) Included with Suitcases.

(b) Includes Kitbags.

(c) Excludes Zinc Oxide Paste.

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

Article.	Unit of Quantity.	1948-49.	1949-50.	1950-51.
<b>Cosmetic Creams and Lotions—</b>				
Face Cream .. .. .	Cwt.	5,010	4,136	5,166
Hand Lotion .. .. .	"	2,326	2,251	1,884
Other Skin Creams .. .. .	"	5,270	6,767	6,945
Custard Powder .. .. .	'000 lb.	8,557	7,135	6,673
Cycles, Assembled .. .. .	No.	91,514	96,282	112,076
<b>Dynamos—</b>				
Alternators .. .. .	"	135	273	334
Generators .. .. .	"	9,563	9,461	14,134
<b>Electricity .. .. .</b>				
Enamels, Natural and Synthetic .. .. .	Mill. k.w.h.	9,053	9,509	10,503
Engines—	'000 gal.	1,717	2,236	1,889
Diesel, other than Marine .. .. .	No.	4,425	4,598	4,200
Petrol, Marine .. .. .	"	3,081	2,470	2,296
Other (a) .. .. .	"	21,598	23,406	27,190
<b>Essences, Flavouring—</b>				
Domestic .. .. .	Gal.	84,002	102,443	97,512
Industrial .. .. .	"	144,605	179,802	278,807
<b>Face Powder .. .. .</b>				
Fans, Electric .. .. .	Cwt.	2,741	2,723	3,268
Fats, Edible—	No.	59,934	48,338	63,629
Dripping .. .. .	Cwt.	219,022	295,744	369,069
Other .. .. .	"	388,234	405,175	312,748
Fibrous Plaster Sheets .. .. .	'000 sq. yd.	13,234	13,258	15,184
Fish, Tinned .. .. .	'000 lb.	10,886	7,079	7,000
<b>Floorboards—</b>				
Australian Timber .. .. .	'000 super. ft.	70,538	71,584	66,997
Imported Timber .. .. .	"	8,781	11,562	11,854
Flour, Wheaten (b) .. .. .	Ton (2,000 lb.)	1,679,190	1,509,023	1,695,559
Flour, Self-raising .. .. .	Cwt.	1,160,981	1,113,203	1,059,968
Fruit Juices .. .. .	Gal.	1,738,759	1,573,689	1,846,047
<b>Gas .. .. .</b>				
Gloves—	Mill. cubic ft.	36,733	34,898	37,875
Dress—				
Leather .. .. .	Doz. pairs	42,199	35,684	28,855
Other .. .. .	"	23,612	35,754	50,178
Work, All types .. .. .	"	157,230	171,611	207,606
Golf Clubs .. .. .	Doz.	16,509	15,378	14,041
<b>Handkerchiefs—</b>				
Men's .. .. .	"	877,873	818,475	881,532
Women's .. .. .	"	922,241	827,118	1,104,526
Hats and Caps .. .. .	"	574,317	480,789	515,818
Rose, Rubber .. .. .	'000 lin. ft.	18,323	17,499	18,167
<b>Ice .. .. .</b>				
Ice Cream .. .. .	Ton	1,039,379	1,061,862	1,083,472
Iron and Steel—	'000 gal.	14,524	15,786	17,385
Pig Iron .. .. .	Ton	1,044,957	1,097,635	1,313,332
Ingot Steel .. .. .	"	1,178,010	1,217,971	1,443,831
Blooms and Billets .. .. .	"	1,101,063	1,103,784	1,297,260
Irons, Electric .. .. .	No.	208,999	178,283	232,206
<b>Jams and Preserves—</b>				
Jams .. .. .	'000 lb.	132,951	134,577	125,288
Fruit, Preserved (c) .. .. .	"	187,145	211,428	233,538
Vegetables, Preserved .. .. .	"	51,279	73,534	79,510
Jelly Crystals .. .. .	"	11,414	14,002	13,999
Kalsomine .. .. .	"	8,645	9,334	8,860
<b>Lacquer, Clear and Colours .. .. .</b>				
Lard .. .. .	Gal.	829,971	944,725	1,158,465
Lawn Mowers—	'000 lb.	5,838	5,466	5,108
Electric .. .. .	No.	8,935	23,461	29,877
Petrol .. .. .	"	594	1,070	696
Hand .. .. .	"	64,557	88,425	118,437
<b>Leather—</b>				
Sole and Belting .. .. .	'000 lb.	38,716	38,650	38,107
Harness, Skirt, etc. .. .. .	"	1,956	1,966	1,724
Upholstery .. .. .	'000 sq. ft.	9,672	10,318	10,980
Dressed from Hides .. .. .	"	40,443	43,110	43,860
Dressed from Skins .. .. .	"	31,857	29,319	26,675

(a) Excludes Motor Car, Motor Cycle, Tractor and Aero Engines.  
 Baking. (c) Includes Canned Apple, all types.

(b) Includes Wheatmeal for

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

Article.	Unit of Quantity.	1948-49.	1949-50.	1950-51.
Lime—Quick .. .. .	ton	77,238	87,501	115,857
Hydrated .. .. .	"	25,943	26,891	26,908
Agricultural .. .. .	"	68,960	70,415	75,315
Linseed Oil .. .. .	'000 gal.	3,488	3,658	4,456
Lubricating Oil .. .. .	"	5,825	9,765	19,849
Malt, Barley .. .. .	'000 bus.	4,989	5,438	5,550
Margarine—				
Table .. .. .	'000 lb.	19,104	14,044	8,542
Other .. .. .	"	46,566	54,261	49,953
Mattresses—Wire .. .. .	No.	171,506	219,923	250,070
Inner Spring .. .. .	"	154,625	206,850	286,856
Soft Filled, etc. .. .. .	"	456,100	501,409	506,265
Meat, Tinned .. .. .	'000 lb.	114,162	127,684	130,024
Milk—				
Condensed .. .. .	'000 lb.	107,012	111,477	113,135
Concentrated (Whole) .. .. .	"	29,517	38,685	41,106
Powdered (Whole) (a) .. .. .	"	59,042	65,347	57,597
Mops, Floor .. .. .	Gross	7,850	9,760	9,836
Motor Bodies .. .. .	No.	63,230	67,097	92,621
Motor Spirit (including Benzol) .. .. .	'000 gal.	71,138	81,329	92,509
Motors, Electric .. .. .	No.	298,854	397,338	523,585
Nails .. .. .	Ton	19,442	18,434	24,752
Neckties .. .. .	Doz.	486,659	430,758	521,065
Newsprint .. .. .	Ton	30,260	30,472	30,967
Oatmeal .. .. .	Cwt.	462,117	432,667	419,677
Paint—Water .. .. .	'000 lb.	11,018	16,209	19,506
Oil .. .. .	'000 gal.	3,606	3,960	5,290
Peanut Butter .. .. .	'000 lb.	3,864	3,737	3,574
Perambulators .. .. .	No.	106,711	107,420	118,824
Pickles .. .. .	'000 pint	8,464	9,427	10,864
Plywood, $\frac{1}{8}$ inch basis .. .. .	'000 sq. ft.	146,285	157,033	153,498
Pollard .. .. .	Ton (2,000 lb.)	354,957	316,795	339,074
Pyjamas—				
Men's .. .. .	Doz.	219,072	218,103	208,818
And Nightdresses, Women's .. .. .	"	270,214	275,617	320,784
Refrigerators—Commercial .. .. .	No.	4,086	5,016	3,901
Domestic .. .. .	"	145,607	162,341	203,928
Rice (Dressed) .. .. .	Cwt.	672,498	707,652	773,068
Ropes and Cables (excluding Wire) .. .. .	"	117,215	117,804	137,438
Sauce .. .. .	'000 pint	32,301	32,300	30,402
Sausage Casings .. .. .	Cwt.	83,786	88,901	89,443
Semolina .. .. .	"	248,984	275,013	131,865
Shirts .. .. .	Doz.	880,045	904,787	1,074,294
Sink Heaters .. .. .	No.	18,556	22,434	32,854
Soap—				
Household .. .. .	Cwt.	651,031	599,422	686,958
Flakes and Chips (b) .. .. .	"	59,484	60,250	86,616
Industrial .. .. .	"	99,235	79,927	118,078
Sand .. .. .	"	51,088	44,981	40,713
Toilet and Hand .. .. .	"	274,279	267,793	292,546
Shaving, including Sticks and Creams .. .. .	"	8,925	8,995	8,845
Soft .. .. .	"	20,199	19,561	23,061
Liquid .. .. .	"	88,274	84,503	100,860
Shampoo .. .. .	"	8,831	9,533	7,992
Soap Extracts and Powders .. .. .	"	609,631	697,848	754,758
Socks and Stockings—				
Men's .. .. .	Doz. pr.	1,275,403	1,192,065	1,536,318
Women's .. .. .	"	1,536,549	1,708,647	1,856,594
Children's .. .. .	"	705,059	656,936	563,093
Soup (Tinned) .. .. .	'000 pint	41,932	32,611	33,841
Spades and Shovels .. .. .	Doz.	31,472	33,394	35,701
Starch—Edible .. .. .	Cwt.	159,391	279,350	306,211
Inedible .. .. .	"	81,769	87,752	91,416
Steel, Structural, Fabricated .. .. .	Ton	77,942	74,909	98,211
Stoves, Ovens and Ranges—				
Domestic Cooking—				
Solid Fuel .. .. .	No.	61,434	61,857	75,010
Gas .. .. .	"	49,556	46,709	55,357
Electric(c) .. .. .	"	101,230	103,048	116,054
Sugar—Raw .. .. .	Ton	943,052	937,119	921,102
Refined .. .. .	"	428,269	422,675	451,170
Suphate of Ammonia .. .. .	"	53,247	48,736	57,893
Superphosphate .. .. .	"	1,423,137	1,483,458	1,547,823

(a) Includes Malted Milk and Infants' Milk Powder.  
(c) Includes Stovettes, Cookers, etc.

(b) Includes Industrial flakes and chips.

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

Article.	Unit of Quantity.	1948-49.	1949-50.	1950-51.
Talcum Powder .. .. .	Cwt.	23,015	25,112	23,425
Tallow—				
Raw .. .. .	"	710,532	742,425	673,181
Refined .. .. .	"	320,064	418,858	365,855
Tennis Racquet Frames .. .. .	Doz.	23,677	19,576	22,727
Tiles, Roofing—				
Cement .. .. .	'000	28,294	40,638	50,764
Terra Cotta .. .. .	"	44,162	45,415	47,012
Timber—				
From Native Logs—				
Hardwood .. .. .	'000 super. ft.	907,704	965,142	1,068,096
Softwood .. .. .	"	276,384	257,918	193,244
From Imported Logs—				
Hardwood .. .. .	"	1,028	1,820	4,996
Softwood .. .. .	"	10,362	18,629	13,924
Toasters, Electric .. .. .	No.	148,273	175,054	154,574
Tobacco .. .. .	'000 lb.	19,256	20,168	20,967
Tomato Juice .. .. .	Gal.	1,845,620	741,995	368,181
Towels .. .. .	Doz.	389,218	418,283	516,493
Transformers and Converters—				
Above 20 k.v.a. .. .. .	No.	1,940	2,560	1,940
Below 20 k.v.a. .. .. .	"	252,359	226,984	289,353
Twine (all types) .. .. .	Cwt.	82,190	85,570	98,578
Tyres, Pneumatic—				
Motor Car and Motor Cycle .. .. .	No.	1,133,893	1,339,072	1,587,201
Truck and Omnibus .. .. .	"	511,766	535,262	557,408
All Other .. .. .	"	1,144,346	1,022,204	1,235,548
Umbrellas .. .. .	"	206,399	262,655	362,820
Underwear .. .. .	'000 doz.	3,168	3,531	3,847
Vacuum Cleaners (Domestic) .. .. .	No.	65,721	70,604	70,096
Varnishes .. .. .	'000 gal.	2,920	3,266	3,634
Washing Machines, Household, Electric .. .. .	No.	6,528	31,638	72,627
Weatherboards—				
Australian Timber .. .. .	'000 super. ft.	17,897	21,116	20,283
Imported Timber .. .. .	"	2,479	2,847	6,600
Wheatmeal (a) .. .. .	Ton (2,000 lb.)	42,077	55,825	62,018
Wheelbarrows (Metal) .. .. .	No.	51,216	71,603	71,996
Wireless—				
Cabinets—				
Wood .. .. .	No.	81,922	75,895	86,352
Other .. .. .	"	174,452	260,719	349,914
Receiving Sets .. .. .	"	294,119	343,323	459,436
Wool Scoured—				
For Sale .. .. .	'000 lb.	42,752	50,559	46,673
For use in own works .. .. .	"	44,038	40,443	36,259
On Commission .. .. .	"	75,325	81,977	69,451
Wool Tops .. .. .	"	35,973	31,475	29,786
Yarn—				
Cotton .. .. .	"	27,095	30,233	35,261
Woollen .. .. .	"	22,392	22,943	21,726
Worsted .. .. .	"	28,292	26,129	24,839
Zinc Oxide .. .. .	Cwt.	254,797	239,462	238,690
Zinc Oxide Paste .. .. .	"	19,930	19,101	22,081

(a) Excludes Wheatmeal for Baking Included with Flour.

## § 11. Individual Industries.

1. General.—Particulars in pages 968-97, §§ 2-9 afford a general view of the magnitude of industries in the sixteen groups adopted by the Conference of Statisticians in 1930. While it is not possible, within the limits of this work, to give a detailed account of each industry, particular industries dealt with hereunder are of special importance because of the employment which they provide for labour and capital or for other features of special interest. Where there are only one or two establishments in a particular industry in the State or the Commonwealth, details of activities are not published, but are combined with some other factory group so that operations of individual concerns will not be disclosed.

The statistics in the following tables should be read in the light of the following definitions.

*Factory.* A factory is taken to be a manufacturing establishment in which four or more persons are employed or in which power other than hand is used.

*Average Number of Persons Employed.* All persons employed in the manufacturing activities of a factory are counted as factory employees, including working proprietors and "out-workers". The average number of persons employed, means in general the average number over the whole year and not the average over the period worked.

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

*Value of Fuel, etc., Used.* This item includes also the cost of power and light used, of lubricants and of water.

*Value of Output.* The amounts given under this heading represent the selling value at the factory of goods made or processed during the year, including by-products, also the value of other work done.

*Value of Production.* The value of production is obtained by deducting "Value of materials used" and "Value of fuel used", as defined above, from the "Value of output". This method of valuing factory production has been adopted by the Statistical offices throughout Australia.

*Rated Horse-power of Engines Used.* Statistics of power used in factories other than Central Electric Stations relate to the "rated horse-power" of engines ordinarily in use.

For more detailed definitions see § 1, par. 6 of this Chapter, page 965.

Details of some of the principal articles produced in factories in Australia during the years 1948-49 to 1950-51 are shown in the table in the preceding pages (§ 10).

2. **Portland Cement and Cement Goods.**—The manufacture of portland cement and cement goods is an important industry included in Class I. Particulars for the three industries under this general heading are shown for 1950-51 and for a selected number of years in the following table.

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

AUSTRALIA, 1950-51.

Items.	Portland Cement.	Asbestos Cement Sheets and Mouldings.	Other Cement Goods.	Total.
Number of factories .. .. .	11	14	501	526
Number of persons employed .. .. .	2,304	2,195	4,693	9,192
Salaries and wages paid .. .. .	£ 1,336,258	1,237,493	2,286,487	4,860,238
Value of power, fuel, etc., used .. .. .	£ 1,628,846	75,290	89,816	1,793,952
Value of materials used .. .. .	£ 2,277,881	2,588,290	4,159,292	9,025,463
Value of production .. .. .	£ 2,544,403	1,903,026	4,187,050	8,634,479
Total value of output .. .. .	£ 6,451,130	4,566,606	8,436,158	19,453,894
Value of land and buildings .. .. .	£ 1,282,981	746,050	1,221,385	3,250,416
Value of plant and machinery .. .. .	£ 2,617,255	683,440	1,390,697	4,691,392
Horse-power of engines ordinarily in use h.p.	56,960	7,483	11,141	75,584

### AUSTRALIA.

Items.	1938-39.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
Number of factories .. .. .	132	152	328	381	450	526
Number of persons employed .. .. .	3,932	4,582	6,756	7,301	8,033	9,192
Salaries and wages paid .. .. .	£'000 897	1,334	2,426	3,036	3,673	4,860
Value of power, fuel, etc., used .. .. .	£'000 562	593	950	1,192	1,444	1,794
Value of materials used .. .. .	£'000 1,542	2,498	4,373	5,372	6,671	9,025
Value of production .. .. .	£'000 2,385	2,577	4,739	5,394	6,540	8,635
Total value of output .. .. .	£'000 4,489	5,668	10,062	11,958	14,955	19,454
Value of land and buildings .. .. .	£'000 1,350	1,464	1,839	2,087	2,283	3,250
Value of plant and machinery .. .. .	£'000 2,516	2,005	2,918	3,689	3,970	4,691
Horse-power of engines ordinarily in use .. .. .	h.p. 39,617	42,578	57,553	69,975	71,000	75,584



3. **Chemicals, Drugs and Medicines.**—In 1945-46 the classification of factories was amended to provide for the separate tabulation of factories engaged in the production of Industrial and Heavy Chemicals and Acids and those engaged in producing Pharmaceutical and Toilet Preparations, which previously had been combined. Details for each of these industries are given in the next two tables for 1950-51 with comparisons with previous years. However, it should be noted that in order to avoid the publication of confidential information, particulars relating to Industrial and Heavy Chemicals include details for the Explosives industry.

## INDUSTRIAL AND HEAVY CHEMICALS AND ACIDS (INCLUDING EXPLOSIVES).

1950-51.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories .. ..	110	66	16	7	7	1	207
Number of persons employed ..	4,255	5,163	226	719	(a)	(a)	10,615
Salaries and wages paid .. £	2,554,886	3,020,228	120,606	401,214	(a)	(a)	6,243,097
Value of power, fuel, etc., used .. £	701,858	476,513	30,566	288,344	(a)	(a)	1,545,853
Value of materials used .. £	9,218,349	6,772,307	177,461	437,393	(a)	(a)	16,857,405
Value of production .. £	6,283,286	5,766,004	235,926	848,138	(a)	(a)	13,373,047
Total value of output .. £	16,203,493	13,014,824	443,953	1,573,875	(a)	(a)	31,776,307
Value of land and buildings .. £	2,637,011	4,315,897	74,820	626,850	(a)	(a)	7,769,887
Value of plant and machinery .. £	3,805,046	5,350,637	113,257	1,347,195	(a)	(a)	11,042,539
Horse-power of engines ordinarily in use .. .. h.p.	29,296	38,891	982	2,993	(a)	(a)	74,613

## AUSTRALIA.

Items.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
Number of factories .. ..	165	182	192	199	207
Number of persons employed ..	10,228	8,901	9,137	9,749	10,615
Salaries and wages paid .. £'000	3,450	3,614	4,143	4,890	6,243
Value of power, fuel, etc., used .. £'000	618	760	908	1,064	1,546
Value of materials used .. £'000	6,007	7,863	9,027	10,522	16,857
Value of production .. £'000	6,627	6,889	7,887	9,075	13,373
Total value of output .. £'000	13,252	15,512	17,822	20,661	31,776
Value of land and buildings .. £'000	11,697	10,930	10,199	10,696	7,770
Value of plant and machinery .. £'000	10,964	9,313	7,511	9,708	11,043
Horse-power of engines ordinarily in use h.p.	69,399	62,704	63,946	72,183	74,613

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

## PHARMACEUTICAL AND TOILET PREPARATIONS.

1950-51.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories .. ..	125	52	4	11	6	3	201
Number of persons employed ..	3,115	1,665	(a)	536	111	(a)	5,538
Salaries and wages paid .. £	1,356,077	767,745	(a)	216,719	42,288	(a)	2,423,108
Value of power, fuel, etc., used .. £	37,738	32,399	(a)	17,537	1,907	(a)	90,645
Value of materials used .. £	4,395,340	2,973,127	(a)	702,000	96,568	(a)	8,291,354
Value of production .. £	6,048,713	2,409,795	(a)	285,181	106,060	(a)	8,985,181
Total value of output .. £	10,481,791	5,415,321	(a)	1,004,718	204,535	(a)	17,367,180
Value of land and buildings .. £	1,192,082	572,373	(a)	132,206	34,965	(a)	1,963,486
Value of plant and machinery .. £	399,830	338,443	(a)	66,583	12,048	(a)	822,949
Horse-power of engines ordinarily in use .. .. h.p.	3,640	3,035	(a)	1,426	163	(a)	8,357

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

PHARMACEUTICAL AND TOILET PREPARATIONS—*continued.*

## AUSTRALIA.

Items.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
Number of factories .. ..	215	213	216	205	201
Number of persons employed .. ..	5,514	5,491	5,474	5,157	5,538
Salaries and wages paid .. .. £'000	1,699	1,556	1,801	1,840	2,423
Value of power, fuel, etc., used .. .. £'000	57	63	69	73	91
Value of materials used .. .. £'000	5,402	5,751	6,414	6,371	8,291
Value of production .. .. £'000	4,790	5,545	5,851	6,566	8,985
Total value of output .. .. £'000	10,249	11,359	12,334	13,010	17,367
Value of land and buildings .. .. £'000	1,534	1,635	1,718	1,706	1,963
Value of plant and machinery .. .. £'000	598	727	755	767	823
Horse-power of engines ordinarily in use h.p.	6,324	7,408	7,660	7,816	8,357

4. **White Lead, Paint and Varnish.**—The following table shows particulars of this industry for each State during 1950-51 and for Australia for a series of years :—

## WHITE LEAD, PAINTS AND VARNISH.

1950-51.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories .. ..	65	52	12	15	7	3	154
Number of persons employed .. ..	3,048	1,159	251	443	(a)	(a)	4,985
Salaries and wages paid .. .. £	1,715,030	667,741	123,853	234,539	(a)	(a)	2,783,516
Value of power, fuel, etc., used .. .. £	162,172	41,311	8,634	14,451	(a)	(a)	228,586
Value of materials used .. .. £	7,777,953	3,680,772	866,957	1,541,741	(a)	(a)	14,157,124
Value of production .. .. £	3,930,027	1,894,711	270,229	750,251	(a)	(a)	7,010,266
Total value of output .. .. £	11,870,152	5,616,794	1,145,820	2,306,443	(a)	(a)	21,395,976
Value of land and buildings .. .. £	1,556,514	830,639	63,635	327,881	(a)	(a)	2,830,711
Value of plant and machinery .. .. £	779,552	524,048	47,426	168,603	(a)	(a)	1,547,749
Horse-power of engines ordinarily in use .. .. h.p.	12,777	4,900	492	1,274	(a)	(a)	19,875

## AUSTRALIA.

Items.	1938-39.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
Number of factories .. ..	102	122	143	152	149	154
Number of persons employed .. ..	2,271	3,197	3,980	4,240	4,526	4,985
Salaries and wages paid .. .. £'000	535	1,005	1,566	1,797	2,097	2,784
Value of power, fuel, etc., used .. .. £'000	45	81	109	127	171	229
Value of materials used .. .. £'000	2,275	4,775	8,155	9,048	10,903	14,157
Value of production .. .. £'000	1,585	2,448	3,977	4,376	5,296	7,010
Total value of output .. .. £'000	3,905	7,304	12,241	13,551	16,370	21,396
Value of land and buildings .. .. £'000	761	973	1,474	1,595	2,038	2,831
Value of plant and machinery .. .. £'000	324	524	883	989	1,345	1,548
Horse-power of engines ordinarily in use .. .. h.p.	7,696	12,252	13,787	15,829	17,681	19,875

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

5. **Soap and Candle Factories.**—The following table shows particulars of factories in the soap and candle industry in each State for 1950-51 and for Australia for a series of years :—

## SOAP AND CANDLES.

1950-51.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories .. ..	51	20	10	5	4	3	93
Number of persons employed .. ..	2,099	792	321	198	(a)	(a)	3,502
Salaries and wages paid .. .. £	1,214,121	480,558	147,229	91,277	(a)	(a)	1,973,984
Value of power, fuel, etc., used .. .. £	146,903	180,345	11,655	10,216	(a)	(a)	353,257
Value of materials used .. .. £	3,722,359	1,895,233	336,469	206,657	(a)	(a)	6,329,593
Value of production .. .. £	2,822,026	1,320,319	290,212	82,225	(a)	(a)	4,609,265
Total value of output .. .. £	6,691,288	3,395,897	638,336	299,098	(a)	(a)	11,292,115
Value of land and buildings .. .. £	609,020	398,531	63,319	83,346	(a)	(a)	1,200,060
Value of plant and machinery .. .. £	571,962	633,776	41,256	72,071	(a)	(a)	1,340,917
Horse-power of engines ordinarily in use .. .. h.p.	4,161	2,183	551	381	(a)	(a)	7,447

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

SOAP AND CANDLES—*continued.*

## AUSTRALIA.

Items.	1938-39.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
Number of factories .. .. .	65	73	88	91	90	93
Number of persons employed ..	2,620	3,020	3,204	3,578	3,646	3,502
Salaries and wages paid .. £'000	501	860	1,124	1,461	1,605	1,974
Value of power, fuel, etc., used .. £'000	76	123	173	259	285	353
Value of materials used .. £'000	1,568	3,051	4,295	5,277	5,499	6,330
Value of production .. £'000	1,886	2,628	2,935	3,816	4,442	4,609
Total value of output .. £'000	3,530	5,802	7,403	9,352	10,226	11,292
Value of land and buildings .. £'000	666	676	709	715	1,115	1,200
Value of plant and machinery .. £'000	577	373	398	518	1,201	1,341
Horse-power of engines ordinarily in use .. .. . h.p.	5,267	6,630	7,173	7,569	7,515	7,447
Materials used—						
Tallow .. .. . cwt.	535,511	834,057	893,826	972,474	1,008,257	1,123,817
Alkali for Soap (a) .. .. . „	194,869	281,313	293,389	329,974	326,648	343,126
Coconut oil—refined and unrefined .. cwt.	138,954	86,576	80,518	98,751	78,261	90,738
Articles produced—						
Soap (b) .. .. . cwt.	978,113	1,065,439	1,150,774	1,149,868	1,174,605	1,365,669
Soap Extracts and Powders .. .. . „	191,232	469,865	529,971	609,631	697,848	754,758
Candles made .. .. . „	28,649	23,844	13,382	15,692	21,245	12,871

(a) Includes Soda Ash.

(b) Soap made in all factories including those not classified as " Soap and Candle " factories.

6. **Chemical Fertilizers.**—The following table shows particulars of the factories engaged in the manufacture of chemical fertilizers in each State during 1950-51 and for Australia for a series of years. Details of the consumption, imports and exports of fertilizers will be found in Chapter XX.—Agricultural Production.

## CHEMICAL FERTILIZERS.

1950-51.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories .. .. .	14	9	7	7	5	7	49
Number of persons employed ..	801	1,326	251	801	762	71	4,012
Salaries and wages paid .. £	506,658	910,039	133,513	478,105	459,958	51,321	2,539,594
Value of power, fuel, etc., used .. £	166,533	124,970	13,905	61,180	71,286	1,577	439,451
Value of materials used .. £	1,779,393	4,874,745	1,335,136	2,223,076	3,480,258	321,539	14,014,147
Value of production .. .. . £	694,063	1,654,394	204,444	865,947	723,109	110,160	4,312,117
Total value of output .. .. . £	2,639,989	6,654,109	1,613,485	3,150,203	4,274,653	433,276	18,765,715
Value of land and buildings .. £	2,035,513	734,031	91,217	339,037	586,287	113,728	3,899,813
Value of plant and machinery .. £	2,200,830	1,520,218	144,732	696,128	731,350	125,080	5,418,338
Horse-power of engines ordinarily in use .. .. . h.p.	11,945	11,324	1,688	6,510	4,326	481	36,274

## AUSTRALIA.

Items.	1938-39.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
Number of factories .. .. .	36	38	47	50	51	49
Number of persons employed ..	2,540	3,127	3,621	3,894	3,889	4,012
Salaries and wages paid .. .. . £'000	601	1,091	1,549	1,847	2,051	2,540
Value of power, fuel, etc., used .. £'000	114	181	270	372	407	440
Value of materials used .. .. . £'000	3,231	7,899	9,958	11,910	12,737	14,014
Value of production .. .. . £'000	1,600	1,967	2,880	3,400	3,998	4,312
Total value of output .. .. . £'000	4,945	10,047	13,108	15,682	17,142	18,766
Value of land and buildings .. £'000	1,449	1,572	1,722	3,511	3,633	3,900
Value of plant and machinery .. £'000	2,353	2,409	2,857	4,782	4,849	5,418
Horse-power of engines ordinarily in use .. .. . h.p.	18,165	22,574	25,952	29,164	30,855	36,274

7. **Iron and Steel Works and Engineering.**—(i) *General.* In 1945-46 the classification of factories was amended to provide for the tabulation in four separate groups of those industries previously included under Iron and Steel and Engineering. The first group (Smelting, Converting, Refining and Rolling of Iron and Steel) covers blast furnaces, steel works and rolling mills. The second group, Foundries (Ferrous), covers those engaged in the founding of iron and steel. The third group (Plant, Equipment and Machinery including Machine Tools) covers those industries engaged in the production

of boilers, engines, machines and machinery, machine tools, structural steel fabrications, steel furniture, etc. The fourth group (Other Engineering) includes jobbing and general engineers, not elsewhere included.

(ii) *Smelting, Converting, Refining and Rolling of Iron and Steel.* In the following table particulars are shown for 1950-51 for each State and for Australia in selected years for the group Smelting, Converting, Refining and Rolling of Iron and Steel.

### SMELTING, CONVERTING, REFINING AND ROLLING OF IRON AND STEEL.

1950-51.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	17	9	..	3	1	..	30
Number of persons employed ..	12,173	924	..	(a)	(a)	..	13,419
Salaries and wages paid ..	£ 8,369,530	675,078	..	(a)	(a)	..	9,245,432
Value of power, fuel, etc., used ..	£ 6,932,586	144,591	..	(a)	(a)	..	7,895,622
Value of materials used ..	£ 39,713,401	562,510	..	(a)	(a)	..	40,580,191
Value of production ..	£ 15,176,684	1,000,724	..	(a)	(a)	..	16,594,461
Total value of output ..	£ 61,822,671	1,707,825	..	(a)	(a)	..	65,070,274
Value of land and buildings ..	£ 3,029,589	162,805	..	(a)	(a)	..	3,259,007
Value of plant and machinery ..	£ 8,739,296	236,755	..	(a)	(a)	..	9,191,192
Horse-power of engines ordinarily in use ..	h.p. 207,218	6,848	..	(a)	(a)	..	216,617

#### AUSTRALIA.

Items.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
Number of factories ..	27	31	32	30	30
Number of persons employed ..	10,413	12,503	12,335	11,509	13,419
Salaries and wages paid ..	£'000 4,164	5,772	6,583	6,978	9,245
Value of power, fuel, etc., used ..	£'000 2,777	4,233	4,568	5,516	7,896
Value of materials used ..	£'000 19,134	25,419	26,550	29,747	40,580
Value of production ..	£'000 7,393	12,280	11,950	12,784	16,594
Total value of output ..	£'000 29,304	41,932	43,268	48,047	65,070
Value of land and buildings ..	£'000 2,197	2,379	2,697	2,812	3,259
Value of plant and machinery ..	£'000 5,669	5,670	6,375	7,185	9,191
Horse-power of engines ordinarily in use h.p.	198,317	198,223	202,332	213,529	216,617

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

(iii) *Foundries (Ferrous).* Particulars covering those industries classified as founding of iron and steel are shown for each State for 1950-51 and for Australia in selected years in the following table:—

### FOUNDRIES—FERROUS.

1950-51.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	96	201	22	21	18	..	358
Number of persons employed ..	3,137	2,445	574	536	506	..	7,198
Salaries and wages paid ..	£ 1,899,858	1,387,950	291,819	300,510	254,307	..	4,134,444
Value of power, fuel, etc., used ..	£ 190,381	173,818	25,992	35,304	49,252	..	474,747
Value of materials used ..	£ 1,413,956	1,223,409	224,957	181,815	217,754	..	3,261,891
Value of production ..	£ 2,626,123	2,160,184	456,841	433,047	347,593	..	6,023,788
Total value of output ..	£ 4,230,460	3,557,411	707,790	650,166	614,599	..	9,760,426
Value of land and buildings ..	£ 612,834	674,422	125,299	70,731	87,201	..	1,570,487
Value of plant and machinery ..	£ 538,418	482,851	158,823	108,250	69,008	..	1,357,350
Horse-power of engines ordinarily in use ..	h.p. 10,533	7,311	1,780	2,103	2,249	..	23,976

#### AUSTRALIA.

Items.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
Number of factories ..	312	349	374	353	358
Number of persons employed ..	5,344	6,597	6,910	6,346	7,198
Salaries and wages paid ..	£'000 1,612	2,597	2,986	2,985	4,134
Value of power, fuel, etc., used ..	£'000 161	246	295	341	475
Value of materials used ..	£'000 1,210	1,764	2,142	2,116	3,262
Value of production ..	£'000 2,341	3,667	4,041	4,648	6,024
Total value of output ..	£'000 3,712	5,677	6,478	7,105	9,761
Value of land and buildings ..	£'000 988	1,163	1,237	1,207	1,570
Value of plant and machinery ..	£'000 619	857	1,047	1,063	1,357
Horse-power of engines ordinarily in use h.p.	13,381	17,985	19,600	19,306	23,976

INDIVIDUAL INDUSTRIES.

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(iv) *Plant, Equipment and Machinery (including Machine Tools)*. The next table shows particulars for this group for each State during 1950-51 and for Australia for the years 1945-46 and 1947-48 to 1950-51:—

PLANT, EQUIPMENT AND MACHINERY (INCLUDING MACHINE TOOLS).

1950-51.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	770	503	101	114	67	..	1,555
Number of persons employed ..	27,982	18,479	5,264	7,248	2,017	..	60,990
Salaries and wages paid ..	£ 16,624,033	10,816,854	2,572,881	4,201,547	1,000,070	..	35,215,385
Value of power, fuel, etc., used ..	£ 648,423	420,293	106,885	206,174	52,352	..	1,434,127
Value of materials used ..	£ 25,718,418	16,085,863	3,189,407	6,762,385	1,284,261	..	53,040,426
Value of production ..	£ 26,599,215	17,599,248	3,684,587	6,474,837	1,575,557	..	55,933,444
Total value of output ..	£ 52,966,050	34,105,406	6,980,969	13,443,906	2,912,170	..	110,407,997
Value of land and buildings ..	£ 7,446,651	5,527,744	779,850	1,618,638	530,800	..	15,903,683
Value of plant and machinery ..	£ 7,445,158	4,738,827	834,800	1,415,298	534,001	..	14,968,084
Horse-power of engines ordinarily in use .. h.p.	111,145	55,837	13,231	18,510	7,013	..	205,736

AUSTRALIA.

Items.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
Number of factories ..	1,038	1,286	1,423	1,498	1,555
Number of persons employed ..	49,123	50,909	54,268	56,344	60,990
Salaries and wages paid ..	£ 14,259	19,315	23,096	26,493	35,215
Value of power, fuel, etc., used ..	£ 605	730	906	1,075	1,434
Value of materials used ..	£ 16,455	25,418	30,109	38,457	53,040
Value of production ..	£ 21,044	28,779	34,624	40,958	55,934
Total value of output ..	£ 38,104	54,927	65,639	80,490	110,408
Value of land and buildings ..	£ 7,227	9,106	10,428	12,680	15,904
Value of plant and machinery ..	£ 7,046	8,662	10,554	12,571	14,968
Horse-power of engines ordinarily in use h.p.	101,810	112,935	141,033	158,402	205,736

(v) *Other Engineering*. Details covering jobbing and general engineering works not elsewhere included are shown for each State for 1950-51 and for selected years for Australia in the following table:—

OTHER ENGINEERING.

1950-51.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	619	595	100	134	102	77	1,627
Number of persons employed ..	5,187	7,582	1,267	2,600	568	1,283	18,487
Salaries and wages paid ..	£ 2,603,641	4,114,032	560,560	1,316,004	220,886	679,380	9,494,509
Value of power, fuel, etc., used ..	£ 84,211	111,792	16,424	44,697	11,750	21,635	290,509
Value of materials used ..	£ 2,709,465	4,334,325	651,794	1,248,541	278,006	632,649	9,854,780
Value of production ..	£ 4,508,914	6,699,772	838,101	1,861,903	389,602	1,025,067	15,323,359
Total value of output ..	£ 7,392,590	11,145,889	1,506,319	1,555,141	679,358	1,679,351	25,468,648
Value of land and buildings ..	£ 1,647,034	2,121,683	305,240	455,401	150,247	409,515	5,089,120
Value of plant and machinery ..	£ 1,092,388	1,862,602	252,372	491,119	100,100	299,803	4,098,444
Horse-power of engines ordinarily in use .. h.p.	12,396	20,860	2,844	6,464	1,353	3,479	47,396

AUSTRALIA.

Items.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
Number of factories ..	963	1,267	1,358	1,495	1,627
Number of persons employed ..	13,112	14,232	14,844	16,798	18,487
Salaries and wages paid ..	£ 3,634	4,803	5,741	6,977	9,495
Value of power, fuel, etc., used ..	£ 162	172	193	241	291
Value of materials used ..	£ 3,599	4,507	5,217	6,537	9,855
Value of production ..	£ 5,432	7,425	8,950	11,086	15,323
Total value of output ..	£ 9,193	12,164	14,360	17,964	25,469
Value of land and buildings ..	£ 2,369	3,653	5,128	5,191	5,089
Value of plant and machinery ..	£ 2,091	2,899	3,128	3,515	4,098
Horse-power of engines ordinarily in use h.p.	26,095	31,804	41,577	41,668	47,396

8. **Extracting and Refining of Non-ferrous Metals ; Alloys.**—The following table shows particulars of establishments engaged in metal extraction and ore reduction including secondary recovery of metals, but excluding blast furnaces engaged in production of pig iron from iron ore, for each State during 1950–51 and for Australia for a series of years.

**EXTRACTING AND REFINING OF NON-FERROUS METALS ; ALLOYS.**

1950–51.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust. (a)	Tas.	Australia.
Number of factories ..	29	18	12	3	..	3	65
Number of persons employed ..	2,051	201	1,050	(b)	..	(b)	7,664
Salaries and wages paid .. £	1,554,265	137,370	596,760	(b)	..	(b)	5,267,948
Value of power, fuel, etc., used £	845,165	19,430	210,034	(b)	..	(b)	2,323,138
Value of materials used .. £	25,303,846	1,571,139	4,251,288	(b)	..	(b)	59,734,442
Value of production .. .. £	5,375,449	384,476	5,681,650	(b)	..	(b)	20,435,204
Total value of output .. .. £	31,524,460	1,975,045	10,142,972	(b)	..	(b)	82,492,784
Value of land and buildings .. £	566,132	107,668	389,286	(b)	..	(b)	2,017,095
Value of plant and machinery .. £	1,711,165	31,177	1,111,758	(b)	..	(b)	4,723,478
Horse-power of engines ordinarily in use .. .. h.p.	31,483	372	14,914	(b)	..	(b)	88,410

**AUSTRALIA.**

Items.	1938–39.	1945–46.	1947–48.	1948–49.	1949–50.	1950–51.
Number of factories .. ..	42	49	54	56	62	65
Number of persons employed ..	5,532	6,060	6,843	7,040	7,394	7,664
Salaries and wages paid .. £'000	1,613	2,280	3,379	3,919	4,324	5,268
Value of power, fuel, etc., used .. £'000	598	1,058	1,358	1,712	1,908	2,323
Value of materials used .. .. £'000	16,844	18,042	30,757	41,488	38,993	59,735
Value of production .. .. £'000	3,892	5,527	10,664	16,032	15,718	20,435
Total value of output .. .. £'000	21,334	24,627	42,779	59,232	56,619	82,493
Value of land and buildings .. £'000	1,177	1,385	1,461	1,649	1,861	2,017
Value of plant and machinery .. £'000	3,526	3,795	3,834	4,267	4,605	4,723
Horse-power of engines ordinarily in use .. .. h.p.	54,450	57,345	74,120	77,437	79,320	88,410

(a) In Western Australia the majority of the plants are worked at the mines and are therefore not included. (b) Not available for publication ; figures are included in the total for Australia.

9. **Electrical Machinery, Cables and Apparatus.**—The following table shows particulars of this industry for each State during 1950–51 and for Australia for a series of years :—

**ELECTRICAL MACHINERY, CABLES AND APPARATUS.**

1950–51.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories .. ..	423	249	52	61	66	16	867
Number of persons employed ..	23,753	8,027	1,415	1,378	821	100	35,494
Salaries and wages paid .. £	12,795,703	4,287,536	693,956	641,456	356,754	40,639	18,816,104
Value of power, fuel, etc., used .. £	454,114	133,267	10,503	21,265	10,583	1,335	637,067
Value of materials used .. .. £	21,731,366	7,470,035	1,121,584	810,413	493,940	52,292	31,679,650
Value of production .. .. £	21,308,072	6,700,026	1,232,970	983,924	570,763	71,515	30,867,270
Total value of output .. .. £	43,493,572	14,303,328	2,371,057	1,815,602	1,075,286	125,142	63,183,987
Value of land and buildings .. £	5,268,326	2,143,731	263,727	273,638	212,075	62,523	8,224,020
Value of plant and machinery .. £	3,358,303	1,821,891	305,787	143,677	68,782	20,629	5,719,069
Horse-power of engines ordinarily in use .. .. h.p.	37,123	12,787	3,560	1,358	809	217	55,854

**AUSTRALIA.**

Items.	1938–39.	1945–46.	1947–48.	1948–49.	1949–50.	1950–51.
Number of factories .. ..	360	551	732	791	811	867
Number of persons employed ..	10,666	22,825	27,579	29,961	30,956	35,494
Salaries and wages paid .. £'000	2,031	6,301	9,434	11,703	13,563	18,816
Value of power, fuel, etc., used .. £'000	105	209	291	366	453	637
Value of materials used .. .. £'000	3,195	8,085	14,310	16,510	21,149	31,680
Value of production .. .. £'000	3,655	9,496	13,290	17,834	21,154	30,867
Total value of output .. .. £'000	6,955	17,790	27,801	34,710	42,756	63,184
Value of land and buildings .. £'000	1,627	3,597	4,488	5,382	6,293	8,224
Value of plant and machinery .. £'000	897	2,084	2,988	3,664	4,127	5,719
Horse-power of engines ordinarily in use .. .. h.p.	12,043	26,244	34,661	39,382	43,995	55,854

10. **Railway and Tramway Workshops.**—The railway and tramway workshops, which form an important item in Class IV., are chiefly owned by State Governments and Local Authorities. Workshops (fourteen in 1950-51) controlled by non-public bodies are not included in the figures below :—

## TRAMCARS AND RAILWAY ROLLING STOCK(a).

1950-51.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	47	25	11	14	22	7	126
Number of persons employed ..	17,269	6,482	5,901	4,282	3,502	817	38,253
Salaries and wages paid ..	£ 9,955,429	£ 3,312,731	£ 3,062,802	£ 2,476,310	£ 1,694,253	£ 412,128	£ 20,913,653
Value of power, fuel, etc., used ..	£ 241,155	£ 115,286	£ 73,345	£ 114,115	£ 58,197	£ 14,329	£ 616,427
Value of materials used ..	£ 5,384,388	£ 2,054,035	£ 1,037,803	£ 1,412,651	£ 1,526,866	£ 149,041	£ 12,164,784
Value of production ..	£ 11,805,409	£ 4,352,469	£ 3,463,948	£ 2,861,702	£ 2,808,394	£ 449,416	£ 25,738,338
Total value of output ..	£ 17,430,952	£ 6,521,790	£ 5,175,096	£ 4,388,468	£ 4,393,457	£ 609,786	£ 38,519,549
Value of land and buildings ..	£ 4,290,052	£ 1,336,073	£ 566,775	£ 1,179,166	£ 182,036	£ 429,103	£ 7,983,205
Value of plant and machinery ..	£ 5,371,797	£ 519,207	£ 540,687	£ 1,222,666	£ 321,942	£ 300,607	£ 8,276,906
Horse-power of engines ordinarily in use ..	h.p. 38,062	15,079	13,417	16,642	7,255	3,112	95,507

## AUSTRALIA.

Items.	1938-39.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
Number of factories ..	117	115	128	128	127	126
Number of persons employed ..	27,310	36,962	37,496	37,993	38,432	38,253
Salaries and wages paid ..	£'000 6,721	£'000 11,657	£'000 14,497	£'000 16,357	£'000 18,057	£'000 20,914
Value of power, fuel, etc., used ..	£'000 226	£'000 372	£'000 372	£'000 450	£'000 500	£'000 617
Value of materials used ..	£'000 4,976	£'000 8,143	£'000 9,074	£'000 9,533	£'000 11,133	£'000 12,165
Value of production ..	£'000 8,021	£'000 13,794	£'000 17,387	£'000 19,265	£'000 21,643	£'000 25,738
Total value of output ..	£'000 13,223	£'000 22,309	£'000 26,833	£'000 29,248	£'000 33,270	£'000 38,520
Value of land and buildings ..	£'000 6,737	£'000 6,960	£'000 7,514	£'000 7,773	£'000 8,051	£'000 7,983
Value of plant and machinery ..	£'000 5,390	£'000 6,034	£'000 6,525	£'000 7,206	£'000 7,925	£'000 8,277
Horse-power of engines ordinarily in use ..	h.p. 53,671	75,532	82,441	87,391	89,864	93,567

(a) Government and Local Authority only.

A railway workshop in the Northern Territory is chiefly engaged in making repairs to rolling stock, etc., no new goods being manufactured. Particulars of this establishment are not included in any of the tables in this chapter.

11. **Motor Vehicles.**—The industries catering for the motor trade are included in Class IV., Industrial Metals, Machines and Conveyances. In the table below a summary is given of the principal statistics for 1950-51 for each branch of industry associated with the motor trade of Australia.

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

1950-51.

Items.	Construction and Assembly.	Motor Bodies.	Repairs.	Motor Accessories.	Total.
Number of factories ..	78	519	4,998	135	5,730
Number of persons employed ..	13,714	17,708	38,590	5,568	75,580
Salaries and wages paid ..	£ 8,811,236	£ 10,195,208	£ 16,731,975	£ 3,050,945	£ 38,789,364
Value of power, fuel, etc., used ..	£ 308,301	£ 274,550	£ 477,963	£ 154,179	£ 1,214,993
Value of materials used ..	£ 10,616,358	£ 15,967,334	£ 18,220,497	£ 3,737,713	£ 48,541,902
Value of production ..	£ 18,384,177	£ 13,991,133	£ 25,761,443	£ 5,254,874	£ 60,391,627
Total value of output ..	£ 26,508,836	£ 30,233,017	£ 44,459,903	£ 9,146,766	£ 110,348,522
Value of land and buildings ..	£ 2,645,535	£ 3,421,165	£ 14,887,729	£ 2,406,128	£ 23,360,557
Value of plant and machinery ..	£ 2,136,017	£ 2,542,379	£ 5,031,878	£ 1,784,893	£ 11,495,167
Horse-power of engines ordinarily in use ..	h.p. 20,704	34,375	38,167	16,461	109,707

In the next table similar details are shown on a State basis for 1950-51 and for Australia for selected years for these branches combined.

## MOTOR VEHICLES : CONSTRUCTION, ASSEMBLY, REPAIRS, ETC.

1950-51.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas. (a)	Australia.
Number of factories	2,205	1,510	860	400	527	228	5,730
Number of persons employed	23,282	25,166	8,443	12,040	5,019	1,630	75,580
Salaries and wages paid	£ 11,599,054	£ 13,967,809	£ 3,442,089	£ 6,827,417	£ 2,291,728	£ 661,267	£ 38,789,364
Value of power, fuel, etc., used	£ 347,747	£ 445,854	£ 109,666	£ 206,765	£ 91,088	£ 13,873	£ 1,214,993
Value of materials used	£ 15,002,314	£ 14,997,134	£ 3,532,028	£ 10,409,001	£ 3,931,930	£ 669,495	£ 48,541,902
Value of production	£ 17,877,315	£ 21,427,753	£ 6,985,457	£ 9,852,173	£ 3,425,667	£ 1,023,263	£ 60,591,627
Total value of output	£ 33,227,376	£ 36,870,741	£ 10,627,151	£ 20,467,939	£ 7,448,685	£ 1,706,630	£ 110,348,522
Value of land and buildings	£ 8,960,823	£ 7,625,326	£ 2,100,341	£ 2,127,434	£ 1,696,629	£ 850,064	£ 23,360,557
Value of plant and machinery	£ 3,705,007	£ 4,040,089	£ 937,165	£ 1,879,768	£ 754,830	£ 178,308	£ 11,495,167
Horse-power of engines ordinarily in use	h.p. 29,868	39,402	8,247	22,835	7,909	1,446	109,707

## AUSTRALIA.

Items.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
Number of factories	3,592	4,592	5,009	5,330	5,730
Number of persons employed	39,706	55,988	62,020	67,874	75,580
Salaries and wages paid	£'000 10,582	£ 18,884	£ 23,883	£ 28,685	£ 38,789
Value of power, fuel, etc., used	£'000 395	£ 598	£ 744	£ 895	£ 1,215
Value of materials used	£'000 12,143	£ 18,517	£ 23,672	£ 32,427	£ 48,542
Value of production	£'000 15,818	£ 28,751	£ 34,494	£ 45,091	£ 60,592
Total value of output	£'000 28,356	£ 47,866	£ 58,910	£ 78,413	£ 110,349
Value of land and buildings	£'000 9,878	£ 14,052	£ 16,271	£ 18,801	£ 23,361
Value of plant and machinery	£'000 3,758	£ 5,920	£ 8,301	£ 9,464	£ 11,495
Horse-power of engines ordinarily in use	h.p. 56,117	77,031	89,194	95,755	109,707

(a) Includes horse-drawn vehicles.

The table below shows the output of motor bodies and the imports of motor bodies and motor chassis for 1938-39, 1945-46 and 1947-48 to 1950-51 :—

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

Items.	1938-39.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
<b>Motor Bodies—</b>						
Number made	No. 79,436	19,473	58,354	68,230	67,097	92,621
Value	£'000 6,421	£ 2,357	£ 9,210	£ 12,145	£ 14,057	£ 18,441
Number imported	No. 532	223	13,724	34,728	115,484	92,791
Value	£'000 64	£ 34	£ 7,174	£ 5,568	£ 17,994	£ 14,328
<b>Motor Chassis—</b>						
Number imported	No. 76,094	10,113	66,832	101,664	187,363	185,751
Value	£'000 7,315	£ 1,879	£ 15,180	£ 23,636	£ 44,965	£ 46,919

(a) Excludes sidecars.

12. Agricultural Machines and Implements.—Owing to the extensive agricultural activities conducted in Australia and the demand for modern mechanized farm equipment, the manufacture of agricultural implements constitutes an important branch of Australian industry. The articles manufactured include a wide range of implements for tillage, seeding, and planting and the harvesting of crops. Other farm machinery made includes windmills, chaff-cutters and machinery used in the dairying industry.

The following table shows details of agricultural implement works in each State for 1950-51 and for Australia for a series of years :—

## AGRICULTURAL MACHINES AND IMPLEMENTS.

1950-51.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories	73	71	30	30	21	..	225
Number of persons employed	2,258	6,240	1,493	1,394	266	..	11,651
Salaries and wages paid	£ 1,376,891	£ 3,920,965	£ 720,418	£ 743,023	£ 133,144	..	£ 6,894,441
Value of power, fuel, etc., used	£ 45,835	£ 286,847	£ 37,821	£ 58,718	£ 3,943	..	£ 433,164
Value of materials used	£ 2,117,611	£ 6,042,755	£ 868,531	£ 803,760	£ 119,537	..	£ 9,952,194
Value of production	£ 1,940,163	£ 5,565,243	£ 1,007,594	£ 1,136,000	£ 204,833	..	£ 9,853,833
Total value of output	£ 4,103,609	£ 11,894,845	£ 1,913,946	£ 1,998,478	£ 328,313	..	£ 20,239,191
Value of land and buildings	£ 675,590	£ 1,430,135	£ 357,809	£ 187,067	£ 163,091	..	£ 2,813,692
Value of plant and machinery	£ 490,084	£ 1,789,330	£ 294,678	£ 262,081	£ 40,913	..	£ 2,877,086
Horse-power of engines ordinarily in use	h.p. 7,268	17,383	3,800	4,523	490	..	33,464



AGRICULTURAL MACHINES AND IMPLEMENTS—*continued.*  
AUSTRALIA.

Items.	1938-39.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
Number of factories .. .. .	161	172	186	196	208	225
Number of persons employed .. ..	6,563	9,510	9,185	9,629	10,454	11,651
Salaries and wages paid .. .. .	£'000 1,373	2,894	3,499	4,199	5,012	6,894
Value of power, fuel, etc., used ..	£'000 82	186	204	233	292	433
Value of materials used .. .. .	£'000 1,485	2,717	3,579	4,480	6,910	9,952
Value of production .. .. .	£'000 1,836	3,798	4,615	5,671	6,983	9,854
Total value of output .. .. .	£'000 3,403	6,701	8,398	10,384	14,185	20,239
Value of land and buildings .. ..	£,000 997	1,200	1,531	1,913	2,201	2,814
Value of plant and machinery .. ..	£'000 911	1,230	1,625	1,938	2,215	2,877
Horse-power of engines ordinarily in use .. .. .	h.p. 13,346	21,225	24,383	26,445	28,139	33,464

13. **Wireless and Amplifying Apparatus.**—The introduction of wireless broadcasting in 1923 gave rise to a new industry in Australia. Early statistical details of the industry are not available as they were grouped together with other electrical apparatus. In 1930-31 a new classification of factories was adopted and "Wireless Apparatus" was shown as a separate industry. The industry is confined mainly to New South Wales and Victoria, but is becoming increasingly important in South Australia. The number of broadcast listeners' licences increased from a third of a million in 1930-31 to about two millions at December, 1952, and this increase reflects the advancement of the industry during that period. During the war years considerable expansion took place in the industry to meet the requirements of the fighting services and apart from a slight drop in output in 1945-46, this expansion has continued.

WIRELESS AND AMPLIFYING APPARATUS : AUSTRALIA.

Items.	1938-39.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
Number of factories .. .. .	72	97	134	136	129	139
Number of persons employed .. ..	4,828	8,709	9,543	9,213	9,283	10,628
Salaries and wages paid .. .. .	£'000 754	2,296	3,071	3,362	3,745	5,140
Value of power, fuel, etc., used ..	£'000 23	58	91	103	101	147
Value of materials used .. .. .	£'000 1,356	3,446	4,920	5,197	6,409	9,229
Value of production .. .. .	£'000 1,123	3,011	4,225	4,612	5,252	7,219
Total value of output .. .. .	£'000 2,502	6,515	9,236	9,912	11,762	16,595
Value of land and buildings .. ..	£'000 558	969	1,115	1,106	1,205	1,339
Value of plant and machinery .. ..	£'000 305	712	644	688	770	946
Horse-power of engines ordinarily in use .. .. .	h.p. 2,710	4,949	6,813	7,230	10,357	13,565
Domestic receiving sets made .. ..	No. 163,821	93,048	335,203	294,119	343,323	459,436

14. **Cotton.**—(i) *General.* Cotton has been grown in Australia since 1860, but never on a very large scale. The average annual quantity of unginned cotton produced during the five years ended 1938-39 was 18 million lb. and slightly under 1½ million lb. in the five years ended 1950-51. Arising out of the development in the local manufacture of cotton materials and the further expansion following the outbreak of war in 1939, plans were completed for an extension of the area devoted to the cultivation of this crop, but the downward trend which commenced with the war in the Pacific has persisted. The growing of cotton, which is restricted to Queensland, is referred to in some detail in Chapter XX.—Agricultural Production.

(ii) *Ginning.* The ginning and marketing of cotton is controlled by the Queensland Cotton Board. The Board operates gineries and processes by-products. The production of raw cotton is insufficient for local factory requirements and is supplemented by imports from overseas, chiefly (1950-51) from India, Pakistan, Brazil, Egypt and the United States of America.

(iii) *Spinning and Weaving.* The recent expansion in the spinning and weaving section of the cotton industry marks an important event in its development. New factories have been established and Australia is now producing an extensive range of cotton goods, including duck and canvas from cotton or flax, denims, drill, etc., tyre

cord and tyre cord fabric. The number of establishments engaged in cotton spinning and weaving in Australia and other particulars of the industry are shown in the following table for the years 1938-39, 1945-46 and 1947-48 to 1950-51.

## COTTON SPINNING AND WEAVING: AUSTRALIA.

Items.	1938-39.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
Number of factories .. ..	33	78	79	91	93	91
Number of persons employed .. ..	3,589	7,253	7,702	8,246	8,377	9,233
Salaries and wages paid .. £'000	493	1,715	2,512	2,939	3,306	4,473
Value of power, fuel, etc., used .. £'000	50	150	209	251	308	441
Value of materials used .. .. £'000	1,357	4,560	6,076	7,857	9,889	16,873
Value of production .. .. £'000	979	3,227	4,087	4,788	5,991	7,534
Total value of output .. .. £'000	2,386	7,937	10,372	12,896	16,188	24,848
Value of land and buildings .. £'000	704	1,529	1,868	2,078	2,844	3,215
Value of plant and machinery .. £'000	736	1,914	2,042	2,748	4,118	4,020
Horse-power of engines ordinarily in use .. .. h.p.	9,128	21,195	23,112	26,078	29,118	31,468

15. Wool Carding, Spinning and Weaving.—The importance of this industry is emphasised by the fact that Australia is the world's chief source of wool and the development of the woollen industry since its establishment at an early period in Australian history is of singular interest. The production consists chiefly of woollen cloth and tweed worsted cloth, rugs, blankets and yarn, all of which have acquired a reputation for purity and durability.

## WOOL CARDING, SPINNING AND WEAVING.

1950-51.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories .. ..	62	99	4	3	3	5	176
Number of persons employed .. ..	8,225	12,239	898	626	341	2,004	24,333
Salaries and wages paid .. £	3,758,972	5,916,839	342,832	286,075	155,791	888,964	11,349,473
Value of power, fuel, etc., used .. £	293,713	540,066	25,300	29,391	15,828	48,258	952,496
Value of materials used .. .. £	15,590,001	29,181,087	1,886,459	1,472,986	1,759,340	3,981,644	53,871,517
Value of production .. .. £	5,887,337	9,569,533	524,929	432,200	498,315	1,697,457	18,609,771
Total value of output .. .. £	21,771,051	39,290,626	2,436,688	1,934,577	2,273,483	5,727,359	73,433,784
Value of land and buildings .. £	1,857,939	3,065,142	141,131	35,864	66,470	202,872	5,369,418
Value of plant and machinery .. £	2,164,676	4,008,096	282,105	65,610	89,314	288,411	6,898,212
Horse-power of engines ordinarily in use .. .. h.p.	21,115	38,571	2,419	1,814	850	4,301	69,070

## AUSTRALIA.

Items.	1938-39. (a)	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
Number of factories .. ..	90	114	142	153	168	176
Number of persons employed .. ..	19,608	21,536	23,480	24,893	24,354	24,333
Salaries and wages paid .. .. £'000	2,888	5,324	7,165	8,684	9,404	11,349
Value of power, fuel, etc., used .. £'000	393	511	672	787	831	952
Value of materials used .. .. £'000	7,331	12,315	16,072	23,643	32,741	53,872
Value of production .. .. £'000	4,791	8,951	12,287	13,598	16,426	18,610
Total value of output .. .. £'000	12,515	21,777	29,031	38,028	49,998	73,434
Value of land and buildings .. £'000	2,380	3,028	3,460	3,654	4,347	5,369
Value of plant and machinery .. £'000	3,170	2,926	3,527	4,246	5,235	6,898
Horse-power of engines ordinarily in use .. .. h.p.	42,944	52,739	56,254	58,083	63,669	69,070
Articles Produced—						
Woolen cloth and tweed (b) .. '000 sq. yds.	8,336	16,707	18,812	16,319	13,245	11,126
Worsted cloth .. ..	17,986	12,644	16,459	18,074	19,074	19,832
Serge (b) .. ..	792	1,022	828	1,573	817	1,043
Flannel—						
For outer clothing .. ..	2,144	2,193	3,227	2,937	1,856	2,614
For underwear (pure) .. ..	1,557	1,567	1,641	1,527	1,659	1,916
For underwear (mixtures) .. ..	814	656				
Blankets (b) .. .. '000 pr.	574	981	721	689	896	973

(a) Includes Woollscouring Works in Victoria and Tasmania and Woollscouring Works and Felmongeries in South Australia. (b) Includes production in other factories.

16. **Hosiery and Other Knitted Goods.**—Details for each State for 1950-51 and for Australia for a series of years are shown in the following table:—

**HOSIERY AND OTHER KNITTED GOODS.**

1950-51.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	154	328	6	9	9	4	510
Number of persons employed ..	7,095	14,234	551	99	199	90 (a)	22,268
Salaries and wages paid ..	£ 3,014,544	£ 6,254,383	£ 202,305	£ 37,496	£ 63,403	£ 32,623	£ 9,604,754
Value of power, fuel, etc., used ..	£ 110,697	£ 265,236	£ 5,074	£ 1,014	£ 2,598	£ 1,429	£ 386,048
Value of materials used ..	£ 7,822,029	£ 13,703,106	£ 959,732	£ 74,038	£ 192,408	£ 82,121	£ 22,833,434
Value of production ..	£ 5,097,067	£ 10,550,720	£ 401,812	£ 53,628	£ 107,474	£ 46,584	£ 16,257,277
Total value of output ..	£ 13,029,793	£ 24,519,062	£ 1,366,618	£ 128,672	£ 302,480	£ 130,134	£ 39,476,570
Value of land and buildings ..	£ 1,534,042	£ 3,022,222	£ 120,662	£ 25,930	£ 29,882	£ 22,365	£ 4,755,103
Value of plant and machinery ..	£ 1,222,988	£ 3,483,096	£ 148,615	£ 19,509	£ 16,807	£ 14,151	£ 4,905,160
Horse-power of engines ordinarily in use .. h.p.	6,517	9,761	399	43	132	73	16,925

**AUSTRALIA.**

Items.	1938-39.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
Number of factories ..	313	376	420	465	496	510
Number of persons employed ..	18,159	17,091	20,337	21,116	21,577	22,268
Salaries and wages paid ..	£'000 2,332	£'000 3,687	£'000 5,470	£'000 6,526	£'000 7,382	£'000 9,605
Value of power, fuel, etc., used ..	£'000 133	£'000 185	£'000 235	£'000 272	£'000 315	£'000 386
Value of materials used ..	£'000 4,284	£'000 7,203	£'000 10,898	£'000 14,137	£'000 16,637	£'000 22,834
Value of production ..	£'000 3,809	£'000 5,865	£'000 9,528	£'000 10,542	£'000 12,399	£'000 16,257
Total value of output ..	£'000 8,226	£'000 13,253	£'000 20,661	£'000 24,951	£'000 29,351	£'000 39,477
Value of land and buildings ..	£'000 1,962	£'000 2,444	£'000 2,754	£'000 3,210	£'000 3,877	£'000 4,755
Value of plant and machinery ..	£'000 1,931	£'000 1,358	£'000 1,965	£'000 2,763	£'000 3,815	£'000 4,905
Horse-power of engines ordinarily in use .. h.p.	8,884	11,465	12,569	13,011	14,625	16,925

(a) Includes 15,697 females.

The following quantities of yarn were used in these establishments during 1950-51, viz. :—Worsted, 8,282,599 lb. ; woollen, 124,838 lb. ; cotton, 8,850,834 lb. ; mercerised cotton, 650,967 lb. ; rayon, 8,271,091 lb. ; silk, 122,670 lb. ; nylon, 718,699 lb. ; other, including mixtures, 611,723 lb. Production of garments and stockings is shown in § 10.

17. **Tanning, Currying and Leather Dressing.**—(i) *Details of Industry.* In Class VII. the most import industry is tanning. Formerly the production of tanneries in Australia was confined to the coarser sorts of leathers, but there are now very few kinds which cannot be produced locally, and an export trade has been built up in some varieties.

**TANNING, CURRYING AND LEATHER DRESSING.**

1950-51.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	69	46	12	10	5	1	143
Number of persons employed ..	1,845	2,489	562	219	(a)	(a)	2,750
Salaries and wages paid ..	£ 1,173,258	£ 1,483,382	£ 294,763	£ 123,194	(a)	(a)	£ 3,200,479
Value of power, fuel, etc., used ..	£ 107,146	£ 127,264	£ 21,997	£ 10,317	(a)	(a)	£ 275,057
Value of materials used ..	£ 3,568,094	£ 3,302,225	£ 768,667	£ 285,032	(a)	(a)	£ 8,221,157
Value of production ..	£ 1,768,814	£ 2,243,598	£ 492,665	£ 218,806	(a)	(a)	£ 4,949,382
Total value of output ..	£ 5,444,054	£ 5,673,087	£ 1,283,329	£ 514,155	(a)	(a)	£ 13,445,596
Value of land and buildings ..	£ 658,360	£ 778,051	£ 82,134	£ 72,682	(a)	(a)	£ 1,638,382
Value of plant and machinery ..	£ 580,886	£ 555,182	£ 128,367	£ 113,113	(a)	(a)	£ 1,424,696
Horse-power of engines ordinarily in use .. h.p.	11,818	11,075	2,560	1,352	(a)	(a)	27,684

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

## TANNING, CURRYING AND LEATHER DRESSING—continued.

## AUSTRALIA.

Items.	1938-39.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
Number of factories .. ..	132	152	149	144	145	143
Number of persons employed ..	4,375	5,022	5,361	5,421	5,473	5,302
Salaries and wages paid .. £'000	920	1,062	2,183	2,502	2,755	3,200
Value of power, fuel, etc., used .. £'000	88	128	166	189	243	275
Value of materials used .. £'000	2,983	5,238	6,308	6,466	6,846	8,221
Value of production .. £'000	1,522	2,690	3,331	3,871	4,330	4,950
Total value of output .. £'000	4,593	8,056	9,805	10,526	11,419	13,446
Value of land and buildings .. £'000	814	1,048	1,154	1,271	1,355	1,638
Value of plant and machinery .. £'000	524	705	857	980	1,171	1,425
Horse-power of engines ordinarily in use .. h.p.	12,345	17,850	21,673	24,032	25,792	27,684

(ii) *Materials Used and Articles Produced.* The quantities of materials used and leather produced in tanneries in each State in 1950-51 are shown in the following table:—

## TANNERIES : MATERIALS USED AND PRODUCTION, 1950-51.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
<b>Materials Used—</b>							
Hides .. no.	856,708	1,107,561	293,141	(a)	139,465	(a)	2,538,673
Skins—							
Calf .. "	520,508	555,647	156,651	(a)	(a)	..	1,243,430
Goat .. "	775,245	(a)	(a)	..	..	..	818,878
Sheep, including Pelts .. "	62,706,305	469,073	(a)	(a)(b)	..	(a)	64,089,561
Marsupial .. "	31,017	11,587	(a)	(a)	..	..	65,240
Bark used—							
Wattle .. tons	3,506	4,911	950	(b) 931	(a)	(a)	(b) 10,382
Mallet and Other .. "	(a)	860	(a)	..	(a)	..	1,318
Tanning extract used .. "	3,971	3,007	1,637	(a)(b)	(b) 1,031	(a)	(b) 9,974
<b>Articles produced—</b>							
<b>Leather made—</b>							
Sole and Belting .. lb.	12,287,501	14,538,206	6,337,215	(a)	3,335,984	(a)	38,106,698
Harness .. "	345,449	417,718	849,842	62,300	49,089	..	1,724,398
Upholstery .. sq. ft.	4,460,108	6,119,337	(a)	(a)	10,231	..	10,980,389
Dressed and Upper from Hides—							
Sold by Measurement—							
Patent .. sq. ft.	(a)	(a)	..	..	..	..	1,404,668
All Other .. "	13,407,114	18,933,639	5,330,078	3,031,367	(a)	(a)	42,455,447
Sold by Weight (all kinds) .. lb.	(a)	104,491	(a)	(a)	9,546	(a)	291,786
Dressed from skins—							
Calf .. sq. ft.	3,826,326	4,021,070	1,039,328	42,930	33,612	..	8,963,266
Goat .. "	3,472,459	(a)	(a)	..	..	..	3,646,872
Sheep .. "	89,162,647	1,017,736	(a)	(a)(b)	..	..	613,431,141
Marsupial .. "	158,946	51,540	(a)	..	..	..	321,791

(a) Not available for publication; figures are included in the total for Australia. (b) Includes an amount produced or used in other works.

18. *Tailoring and Ready-made Clothing.*—Statistics showing the distribution of this industry between States in 1950-51 and for Australia for a series of years are shown in the following table:—

## TAILORING AND READY-MADE CLOTHING.

1950-51.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories .. ..	880	558	154	132	146	20	1,890
Number of persons employed ..	19,826	10,902	3,352	2,634	1,432	389	38,535
Salaries and wages paid .. £	7,311,482	4,429,034	1,003,572	896,317	432,211	133,474	14,206,090
Value of power, fuel, etc., used .. £	125,614	79,194	17,368	17,348	7,323	2,070	248,917
Value of materials used .. £	14,621,812	9,146,882	1,833,907	1,142,931	666,642	126,092	27,539,266
Value of production .. £	11,043,299	6,708,227	1,568,145	1,217,462	642,619	168,616	21,348,368
Total value of output .. £	25,791,725	15,934,303	3,419,420	2,377,741	1,316,584	296,778	49,136,551
Value of land and buildings .. £	3,428,458	1,900,984	391,325	492,681	268,119	55,995	6,537,562
Value of plant and machinery .. £	1,153,439	627,971	95,033	105,324	38,031	10,094	2,030,492
Horse-power of engines ordinarily in use .. h.p.	6,403	2,586	443	481	169	55	10,137

TAILORING AND READY-MADE CLOTHING—*continued.*

AUSTRALIA.

Items.	1938-39.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
Number of factories .. .. .	1,177	1,420	1,687	1,874	1,902	1,890
Number of persons employed ..	26,499	30,047	35,375	37,958	37,250	38,535
Salaries and wages paid .. .. .	£'000 3,168	5,507	8,186	10,323	11,246	14,206
Value of power, fuel, etc., used ..	£'000 72	116	150	187	204	249
Value of materials used .. .. .	£'000 4,947	9,617	15,233	19,344	20,187	27,539
Value of production .. .. .	£'000 4,812	8,881	12,490	15,668	17,085	21,349
Total value of output .. .. .	£'000 9,831	18,614	27,873	35,199	37,476	49,137
Value of land and buildings .. ..	£'000 3,176	4,142	4,915	5,550	5,872	6,538
Value of plant and machinery ..	£'000 356	829	1,215	1,461	1,666	2,030
Horse-power of engines ordinarily in use .. .. .	h.p. 2,607	5,148	6,341	7,375	8,895	10,137

19. Dressmaking and Millinery Establishments.—Particulars of dressmaking and millinery establishments in Australia for the years 1938-39, 1945-46 and 1947-48 to 1950-51 are shown in the following table :—

DRESSMAKING AND MILLINERY : AUSTRALIA.

Items.	1938-39.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
Number of factories .. .. .	869	998	1,175	1,270	1,313	1,328
Number of persons employed ..	16,398	18,051	20,893	21,934	22,384	22,557
Salaries and wages paid .. .. .	£'000 1,653	3,038	4,368	5,497	6,244	7,568
Value of power, fuel, etc., used ..	£'000 33	57	77	95	112	130
Value of materials used .. .. .	£'000 2,610	5,281	8,300	10,104	8,996	11,567
Value of production .. .. .	£'000 2,592	5,170	7,288	8,787	9,812	11,868
Total value of output .. .. .	£'000 5,235	10,508	15,665	18,986	18,920	23,565
Value of land and buildings .. ..	£'000 2,052	2,724	3,304	3,421	3,626	4,068
Value of plant and machinery ..	£'000 189	362	510	601	713	903
Horse-power of engines ordinarily in use .. .. .	h.p. 1,732	3,142	3,671	3,898	4,361	4,671

20. Shirts, Collars and Underclothing.—Particulars of this industry are shown below for each State for 1950-51 and for Australia for a series of years :—

SHIRTS, COLLARS AND UNDERCLOTHING.

1950-51.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories .. .. .	196	139	20	31	22	2	410
Number of persons employed ..	5,280	5,191	1,217	531	(a)	(a)	12,870
Salaries and wages paid .. .. .	£ 1,815,867	1,903,515	385,860	160,148	(a)	(a)	4,451,680
Value of power, fuel, etc., used ..	£ 28,725	32,950	5,653	2,670	(a)	(a)	72,437
Value of materials used .. .. .	£ 5,118,373	4,402,821	663,822	236,140	(a)	(a)	10,729,981
Value of production .. .. .	£ 2,932,594	3,479,081	574,762	234,145	(a)	(a)	7,502,681
Total value of output .. .. .	£ 8,079,692	7,914,852	1,244,237	472,955	(a)	(a)	18,305,099
Value of land and buildings .. ..	£ 864,688	1,020,447	128,564	70,555	(a)	(a)	2,154,856
Value of plant and machinery ..	£ 350,916	387,837	42,589	24,714	(a)	(a)	844,537
Horse-power of engines ordinarily in use .. .. .	h.p. 2,241	3,269	188	165	(a)	(a)	6,017

AUSTRALIA.

Items.	1938-39.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
Number of factories .. .. .	283	347	404	410	397	410
Number of persons employed ..	11,081	9,902	11,880	12,760	12,545	12,870
Salaries and wages paid .. .. .	£'000 1,143	1,729	2,622	3,299	3,515	4,452
Value of power, fuel, etc., used ..	£'000 23	32	46	55	60	72
Value of materials used .. .. .	£'000 2,651	4,446	7,066	9,199	8,915	10,730
Value of production .. .. .	£'000 1,761	2,601	4,354	5,482	5,978	7,503
Total value of output .. .. .	£'000 4,435	7,079	11,466	14,736	14,933	18,305
Value of land and buildings .. ..	£'000 946	1,311	1,632	1,790	1,833	2,155
Value of plant and machinery ..	£'000 231	397	548	608	693	845
Horse-power of engines ordinarily in use .. .. .	h.p. 1,874	2,676	3,346	3,521	3,795	6,017

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

21. **Boots and Shoes.**—(i) *Details of Industry.* The boot and shoe factories hold an important place both in regard to employment afforded and extent of output. The following tables refer to boot and shoe factories as distinct from those devoted to repairing. It has been necessary to include details of Boot and Shoe Repairing in Tasmania, in order to conceal confidential information for that State. Factories engaged in the manufacture of rubber boots and shoes are excluded, being classified under Rubber Goods, see par. 38.

### BOOTS AND SHOES.

1950-51.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.(a)	Australia.
Number of factories ..	201	242	29	21	12	16	521
Number of persons employed ..	8,111	11,305	1,777	1,540	887	163	23,783
Salaries and wages paid ..	£ 3,393,162	£ 5,045,218	£ 687,241	£ 659,959	£ 368,851	£ 60,175	£ 10,214,606
Value of power, fuel, etc., used ..	£ 50,219	£ 68,675	£ 7,303	£ 8,889	£ 5,323	£ 712	£ 141,121
Value of materials used ..	£ 4,706,199	£ 8,354,985	£ 1,006,042	£ 788,222	£ 459,806	£ 74,652	£ 15,389,906
Value of production ..	£ 5,006,455	£ 7,353,122	£ 846,478	£ 797,292	£ 525,885	£ 81,457	£ 14,610,689
Total value of output ..	£ 9,762,873	£ 15,776,782	£ 1,859,823	£ 1,594,403	£ 991,014	£ 156,821	£ 30,141,716
Value of land and buildings ..	£ 1,080,542	£ 1,304,517	£ 151,577	£ 175,758	£ 83,080	£ 26,563	£ 2,822,037
Value of plant and machinery ..	£ 663,791	£ 1,115,513	£ 137,087	£ 211,990	£ 120,146	£ 17,480	£ 2,265,107
Horse-power of engines ordinarily in use ..	h.p. 6,572	8,544	743	731	512	98	17,200

### AUSTRALIA.

Items.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
Number of factories ..	383	492	529	510	521
Number of persons employed ..	18,264	22,230	22,906	23,180	23,783
Salaries and wages paid ..	£'000 4,408	£'000 6,483	£'000 7,611	£'000 8,410	£'000 10,215
Value of power, fuel, etc., used ..	£'000 75	£'000 97	£'000 115	£'000 123	£'000 141
Value of materials used ..	£'000 7,520	£'000 9,829	£'000 10,918	£'000 12,353	£'000 15,390
Value of production ..	£'000 6,472	£'000 9,382	£'000 10,758	£'000 11,892	£'000 14,611
Total value of output ..	£'000 14,067	£'000 19,308	£'000 21,791	£'000 24,368	£'000 30,142
Value of land and buildings ..	£'000 1,518	£'000 1,941	£'000 2,087	£'000 2,328	£'000 2,822
Value of plant and machinery ..	£'000 1,222	£'000 1,460	£'000 1,684	£'000 1,877	£'000 2,265
Horse-power of engines ordinarily in use ..	h.p. 9,678	11,011	12,213	15,644	17,200

(a) Includes details of Boot and Shoe Repairing.

(ii) *Quantity and Value of Production.* The number and value of boots, shoes and slippers made in factories producing and repairing boots and shoes in each State are shown for 1950-51 in the following table. Particulars relating to the output of rubber boots and shoes are not included :—

### BOOT AND SHOE FACTORIES : OUTPUT, 1950-51.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Quantity—							
Boots, shoes and sandals pairs	6,287,640	9,091,473	1,359,142	1,341,830	729,983	95,337	18,905,405
Slippers ..	2,754,433	4,257,046	887,836	131,971	600,333	..	8,640,619
Uppers(b) ..	12,300	16,675	(a)	(a)	..	..	31,332
Value—							
Boots, shoes and sandals ..	£ 8,546,307	£ 12,889,480	£ 1,478,988	£ 1,519,259	£ 743,251	£ 108,845	£ 25,286,130
Slippers ..	£ 1,188,205	£ 2,229,455	£ 319,793	£ 55,021	£ 251,761	..	£ 4,044,295
Uppers(b) ..	£ 10,246	£ 8,896	(a)	(a)	..	..	£ 21,942

(a) Not available for publication ; figures are included in total for Australia. (b) Made for sale as such.

22. **Flour-milling.**—(i) *Details of Industry.* The following table shows the position of the grain-milling industry in each State for the year 1950-51 and for Australia for a series of years :—

### FLOUR-MILLING.

1950-51.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	56	38	10	30	20	11	165
Number of persons employed ..	1,881	1,279	(a)	532	546	(a)	4,842
Salaries and wages paid ..	£ 1,186,549	£ 777,049	(a)	£ 305,082	£ 346,395	(a)	£ 2,933,120
Value of power, fuel, etc., used ..	£ 218,109	£ 129,101	(a)	£ 72,925	£ 79,031	(a)	£ 544,520
Value of materials used ..	£ 13,948,914	£ 8,918,983	(a)	£ 3,729,131	£ 4,605,556	(a)	£ 34,349,960
Value of production ..	£ 2,433,274	£ 1,459,576	(a)	£ 594,049	£ 656,776	(a)	£ 5,636,588
Total value of output ..	£ 16,600,297	£ 10,507,660	(a)	£ 4,396,105	£ 5,341,363	(a)	£ 40,531,068
Value of land and buildings ..	£ 1,157,476	£ 829,834	(a)	£ 219,919	£ 636,778	(a)	£ 3,177,201
Value of plant and machinery ..	£ 1,477,271	£ 773,480	(a)	£ 330,712	£ 607,935	(a)	£ 3,408,243
Horse-power of engines ordinarily in use ..	h.p. 15,048	11,059	(a)	4,211	4,655	(a)	38,413

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

## FLOUR-MILLING—continued.

## AUSTRALIA.

Items.	1938-39.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
Number of factories .. .. .	172	170	167	164	161	165
Number of persons employed .. ..	3,783	4,099	4,623	4,768	4,541	4,842
Salaries and wages paid .. .. £'000	896	1,376	1,885	2,272	2,349	2,933
Value of power, fuel, etc., used .. .. £'000	231	300	365	427	444	545
Value of materials used .. .. £'000	10,573	14,180	24,043	29,800	27,837	34,350
Value of production .. .. £'000	2,091	2,367	3,705	4,539	4,277	5,636
Total value of output .. .. £'000	12,895	16,847	28,113	34,766	32,558	40,531
Value of land and buildings .. .. £'000	2,091	2,244	2,505	2,456	2,557	3,177
Value of plant and machinery .. .. £'000	1,814	1,835	2,034	2,330	2,593	3,408
Horse-power of engines ordinarily in use .. .. h.p.	27,795	32,132	34,976	35,573	36,081	38,413

(ii) *Production of Flour and By-products.* The production of flour by the mills in each State (including other than flour mills) for the years 1938-39, 1945-46 and 1947-48 to 1950-51 was as follows:—

## FLOUR-MILLING: PRODUCTION OF FLOUR.

(Tons of 2,000 lb.)

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
1938-39 ..	547,162	436,829	84,314	146,262	138,583	19,582	1,372,732
1945-46 ..	451,895	315,525	96,984	164,986	166,791	22,657	1,218,838
1947-48 (a)	552,784	501,325	108,022	215,155	197,104	23,753	1,598,143
1948-49 (a)	667,645	479,288	110,843	211,787	183,143	26,484	1,679,190
1949-50 (a)	597,491	447,784	112,995	162,259	161,251	27,243	1,509,023
1950-51 (a)	694,036	448,881	116,503	189,962	218,841	27,336	1,695,559

(a) Includes Wheatmeal for Baking.

In addition, 641,296 tons of bran and pollard were made. The quantity of wheat ground was 80,368,016 bushels.

23. *Bakeries.*—Information regarding establishments in which the manufacture of bread, cakes, etc., was carried on is given in the table below. It should be noted, however, that the details refer only to establishments coming within the definition of a factory as explained at the beginning of this section. For that reason the tables do not give complete details of the industry, as a large number of bakehouses not coming within the definition is excluded. This is true of all other industries covered by the statistics of manufacturing production, but, in view of the omission of such a large number of establishments in this instance, special mention is deemed necessary.

## BAKERIES (INCLUDING CAKES AND PASTRY).

1950-51.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.(a)	Australia.
Number of factories .. .. .	1,170	958	444	195	266	134	3,167
Number of persons employed .. ..	6,846	4,860	2,603	1,173	967	1,480	17,929
Salaries and wages paid .. .. £	2,745,354	1,873,498	879,988	492,733	320,177	630,668	6,942,418
Value of power, fuel, etc., used .. .. £	448,612	306,153	142,831	81,133	56,796	80,115	1,115,640
Value of materials used .. .. £	7,578,225	5,371,636	2,699,748	1,422,867	1,042,848	2,670,574	20,785,898
Value of production .. .. £	5,978,943	4,080,759	1,975,099	1,006,265	734,565	1,117,759	14,893,390
Total value of output .. .. £	14,005,780	9,758,548	4,817,678	2,510,265	1,834,209	3,868,448	36,794,928
Value of land and buildings .. .. £	4,030,803	2,634,362	845,879	648,145	469,056	571,011	9,199,256
Value of plant and machinery .. .. £	1,546,673	1,181,057	429,665	352,339	226,595	341,553	4,077,882
Horse-power of engines ordinarily in use .. .. h.p.	7,033	5,047	2,525	1,802	1,114	2,962	20,483

(a) Includes confectionery.

BAKERIES (INCLUDING CAKES AND PASTRY)—*continued.*

## AUSTRALIA.

Items.	1938-39.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
Number of factories .. ..	1,958	2,494	2,831	2,950	3,064	3,167
Number of persons employed ..	11,715	14,535	16,814	17,420	17,925	17,929
Salaries and wages paid .. £'000	1,993	3,314	4,460	5,182	5,891	6,942
Value of power, fuel, etc., used .. £'000	306	574	665	784	917	1,116
Value of materials used .. £'000	6,651	11,087	13,924	16,477	18,406	20,786
Value of production .. £'000	4,509	7,265	9,067	10,852	12,987	14,893
Total value of output .. £'000	11,466	18,926	23,656	28,113	32,310	36,795
Value of land and buildings .. £'000	4,960	6,222	7,525	7,973	8,817	9,199
Value of plant and machinery .. £'000	1,478	1,804	2,575	3,092	3,635	4,078
Horse-power of engines ordinarily in use .. .. h.p.	10,855	13,695	16,194	17,622	19,160	20,483

24. Sugar-mills.—(i) *General.* Sugar-cane is grown in New South Wales and Queensland and particulars of area, yield, etc., are given in extended detail in Chapter XX.—Agricultural Production.

The products of the sugar-mill are raw sugar and molasses, the former being sent to the refineries in different parts of Australia for further treatment. Particulars of cane crushed and sugar produced embodied in the following table refers to the quantities treated during the years ended 30th June, irrespective of the season in which the cane was grown; consequently the figures relating to cane crushed and sugar produced may differ slightly from those given in Chapter XX.—Agricultural Production, which relate to harvest years.

(ii) *Details for States.* The following table shows details of the operations of sugar mills in New South Wales and Queensland for the years 1938-39, 1945-46 and 1947-48 to 1950-51:—

## SUGAR-MILLS.

Items.	1938-39.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
NEW SOUTH WALES.						
Number of factories .. ..	3	3	3	3	3	3
Number of persons employed ..	212	283	236	223	227	282
Cane crushed .. .. tons	337,038	166,069	267,261	273,974	330,740	(a)
Raw sugar produced (94 net titre) .. .. tons	45,106	21,220	33,560	33,003	40,706	41,258
Molasses produced .. .. gals.	1,489,090	1,110,000	(u)	1,348,480	1,631,200	(a)
QUEENSLAND.						
Number of factories .. ..	33	32	32	32	32	32
Number of persons employed ..	4,419	4,665	4,762	5,531	5,898	6,394
Cane crushed .. .. tons	5,432,193	4,551,971	4,150,986	6,707,530	6,518,006	6,691,704
Raw sugar produced (94 net titre) .. .. tons	775,064	644,661	571,694	910,049	896,413	879,844
Molasses—						
Sold to distillers and others .. '000 gals	8,276	9,381	8,257	18,233	17,596	15,234
Used as fodder .. .. "	4,237	4,676	5,321	5,846	5,563	5,582
Used as manure .. .. "	3,293	3,075	3,558	5,282	7,517	5,555
Run to waste .. .. "	499	51	15	168	283	50
Burnt as fuel .. .. "	3,749	1,748	1,428	1,677	1,490	2,371
Sold or used for other purposes .. '000 gals.	232	423	313	402	727	581
Total molasses disposed of .. '000 gals	20,286	19,354	18,892	31,608	33,176	29,373

(a) Not available for publication.

25. Sugar-refining.—The establishment of the sugar-refining industry considerably antedates the establishment of the sugar-milling industry, the raw material operated on in the earlier years coming chiefly from Mauritius and the East. In 1950-51 there were two sugar refineries in Queensland and one each in New South Wales, Victoria, South Australia and Western Australia. The quantity of raw sugar treated amounted to 470,824 tons, for a yield of 451,170 tons of refined sugar.



26. Confectionery.—The figures for 1950-51 for each State and for Australia for a series of years are shown hereunder:—

## CONFECTIONERY.

1950-51.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.(b)
Number of factories ..	99	97	23	23	8	(a)	250
Number of persons employed ..	3,294	3,310	456	400	335	(a)	7,801
Salaries and wages paid .. £	1,534,465	1,510,630	123,910	144,533	117,958	(a)	3,431,496
Value of power, fuel, etc., used £	136,136	122,243	9,373	14,297	17,306	(a)	299,355
Value of materials used .. £	5,218,272	4,077,108	382,442	324,179	368,493	(a)	10,370,494
Value of production .. £	3,365,774	2,752,254	250,317	212,442	228,570	(a)	6,809,357
Total value of output .. £	8,720,182	6,951,605	642,132	550,918	614,369	(a)	17,479,206
Value of land and buildings .. £	994,500	925,754	112,845	214,140	81,452	(a)	2,318,691
Value of plant and machinery .. £	1,107,147	1,072,188	74,245	83,954	83,620	(a)	2,421,154
Horse-power of engines ordinarily in use .. h.p.	12,304	11,645	928	1,133	463	(a)	26,473

## AUSTRALIA.(b)

Items.	1938-39.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
Number of factories ..	148	198	242	263	267	250
Number of persons employed ..	7,256	5,965	7,061	7,505	8,064	7,801
Salaries and wages paid .. £'000	1,041	1,389	1,978	2,396	2,974	3,431
Value of power, fuel, etc., used .. £'000	107	139	180	215	263	299
Value of materials used .. £'000	3,102	4,669	6,624	8,556	9,571	10,370
Value of production .. £'000	2,418	3,314	4,324	5,686	6,641	6,810
Total value of output .. £'000	5,627	8,122	11,128	14,457	16,475	17,479
Value of land and buildings .. £'000	1,423	1,556	1,710	1,906	2,071	2,319
Value of plant and machinery .. £'000	1,364	1,142	1,393	1,629	2,087	2,421
Horse-power of engines ordinarily in use .. h.p.	16,154	17,939	21,000	22,492	23,463	26,473

(a) Not available for publication.

(b) Excludes Tasmania.

27. Jam, Fruit and Vegetable Canning, Pickles, Sauces, Vinegar.—(i) *Details of Industry.* The following table shows particulars of factories included in this class for each State for 1950-51 and for Australia for a series of years:—

## JAM, FRUIT AND VEGETABLE CANNING, PICKLES, ETC.

1950-51.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	66	60	22	19	11	22	200
Number of persons employed ..	3,472	5,223	1,398	1,287	186	1,558	13,124
Salaries and wages paid .. £	1,661,077	2,576,619	644,302	558,827	74,406	782,295	6,297,526
Value of power, fuel, etc., used .. £	156,937	234,068	34,090	41,692	6,882	47,466	521,135
Value of materials used .. £	5,323,671	9,172,148	2,696,114	1,658,757	203,570	2,179,111	21,233,371
Value of production .. £	2,766,967	4,761,989	1,008,967	752,084	169,515	1,225,512	10,685,054
Total value of output .. £	8,247,575	14,168,205	3,739,171	2,452,533	379,967	3,452,089	32,439,540
Value of land and buildings .. £	1,080,396	1,788,135	405,412	386,666	68,780	352,271	4,081,660
Value of plant and machinery .. £	1,024,748	1,719,362	313,145	298,834	51,903	312,003	3,719,995
Horse-power of engines ordinarily in use .. h.p.	7,839	12,952	1,622	1,419	386	2,500	26,718

## AUSTRALIA.

Items.	1938-39.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
Number of factories ..	123	157	177	182	197	200
Number of persons employed ..	6,476	11,403	11,061	11,447	12,200	13,124
Salaries and wages paid .. £'000	1,149	2,947	3,653	4,147	4,901	6,298
Value of power, fuel, etc., used .. £'000	97	260	284	325	415	521
Value of materials used .. £'000	4,800	12,326	14,475	14,762	17,481	21,234
Value of production .. £'000	3,334	5,079	6,829	7,048	8,374	10,685
Total value of output .. £'000	7,231	17,665	21,588	22,135	26,270	32,440
Value of land and buildings .. £'000	1,382	2,184	2,762	3,051	3,490	4,082
Value of plant and machinery .. £'000	721	1,630	2,333	2,628	3,118	3,720
Horse-power of engines ordinarily in use .. h.p.	7,873	18,234	22,238	23,172	25,314	26,718

(ii) *Production.* During the 1939-45 War, production of jams increased greatly and a high level of output of 171 million lb. was attained in 1943-44. Production afterwards decreased, but attained a new record of 198.5 million lb. in 1947-48. It dropped to 125.3 million lb. in 1950-51. The peak output of preserved fruit occurred in 1950-51 with 233.5 million lb., compared with the previous highest level of 211.4 million lb. attained in the previous year.

There has also been a marked development in the production of canned vegetables. In 1938-39 output totalled 10,255,000 lb. but, as a result of the war-time demand by the armed services, production reached the record level of 119,149,000 lb. in 1944-45. However, it has since declined and in 1950-51 amounted to 79,510,000 lb.

The following table shows the total quantity and value of jams, pickles, sauces and other items manufactured in each State in 1950-51 :—

**JAMS, PRESERVED FRUIT AND VEGETABLES, PICKLES AND SAUCES : OUTPUT, 1950-51.**

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
<b>Quantity—</b>							
Jams .. '000 lb.	31,096	(a) 70,177	13,660	8,999	1,356	(b)	125,288
<b>Fruit Pulp—</b>							
Consumed in own works							
cwt.	19,851	14,225	(c)	15,952	(c)	36,824	90,411
For sale or addition to stock .. cwt.	17,759	30,186	15,630	5,130	8,010	112,664	189,379
<b>Tomato Pulp—</b>							
Consumed in own works							
cwt.	37,788	135,927	(c)	14,535	8,357	(c)	202,839
For sale or addition to stock .. cwt.	29,465	149,471	..	(c)	17,882	(c)	206,110
Fruit, preserved '000 lb.	35,743	108,632	35,483	21,663	549	31,468	233,538
<b>Vegetables, preserved in liquid .. '000 lb.</b>	31,957	34,498	(c)	4,028	(c)	(c)	79,510
Pickles .. '000 pints	4,425	3,459	(c)	2,413	(c)	..	10,864
Sauces .. "	12,138	13,692	1,375	1,857	(c)	(c)	30,402
<b>Value—</b>							
Jams .. £'000	1,437	(a) 3,123	739	376	76	(b)	5,751
Fruit, preserved £'000	1,891	4,251	2,273	1,055	35	1,285	10,790
<b>Vegetables, preserved in liquid .. £'000</b>	1,876	2,035	(c)	177	(c)	(c)	4,697
Pickles .. £'000	345	226	(c)	235	(c)	..	860
Sauces .. £'000	1,236	1,006	77	134	(c)	(c)	2,536

(a) Includes Tasmania. (b) Included with Victoria. (c) Not available for publication; figures are included in total for Australia.

28. **Bacon-curing.**—(i) *Details of Industry.* The table hereunder shows particulars of factories engaged in bacon-curing in each State for 1950-51 and for Australia for a series of years :—

**BACON-CURING.**

1950-51.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	35	15	8	12	4	10	84
Number of persons employed ..	758	719	834	316	258	76	2,961
Salaries and wages paid .. £	412,114	398,620	410,413	180,364	136,888	38,221	1,576,620
Value of power, fuel, etc., used .. £	54,672	42,247	43,060	41,844	18,017	4,347	204,187
Value of materials used .. £	3,624,028	3,176,220	3,882,862	1,441,094	1,541,905	409,772	14,075,881
Value of production .. £	979,242	639,372	676,017	265,496	285,583	83,893	2,929,603
Total value of output .. £	4,657,942	3,857,839	4,601,939	1,748,434	1,845,505	498,012	17,209,671
Value of land and buildings .. £	430,442	259,090	319,385	158,655	66,308	35,936	1,269,816
Value of plant and machinery .. £	167,802	129,370	183,123	80,558	38,749	10,808	610,410
Horse-power of engines ordinarily in use .. h.p.	1,992	2,296	3,258	1,701	901	324	10,472

BACON-CURING—continued.  
AUSTRALIA.

Items.	1938-39.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
Number of factories .. ..	76	87	90	87	86	84
Number of persons employed ..	2,047	2,879	2,760	2,872	2,907	2,961
Salaries and wages paid .. £'000	480	879	973	1,160	1,318	1,577
Value of power, fuel, etc., used .. £'000	77	126	137	157	170	204
Value of materials used .. £'000	3,768	9,410	9,492	11,146	12,518	14,076
Value of production .. £'000	865	1,628	1,604	1,932	2,283	2,930
Total value of output .. £'000	4,710	11,164	11,233	13,235	14,971	17,210
Value of land and buildings .. £'000	750	890	960	1,069	1,079	1,270
Value of plant and machinery .. £'000	357	395	459	531	537	610
Horse-power of engines ordinarily in use .. h.p.	9,389	10,116	10,929	10,522	10,093	10,472

(ii) *Quantity and Value of Production.* The number of pigs cured and the quantity of bacon and ham and lard produced in factories in each State for 1950-51 are shown in the following table:—

## BACON-CURING FACTORIES : PIGS CURED AND PRODUCTION, 1950-51.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Pigs cured on own account— To finished Bacon .. ..	217,440	153,950 (a)	210,686	70,193	74,221	20,742	785,745
To green Bacon .. ..							
Pigs cured on commission .. ..	39,981	1,301	(a)	401	(a)	(a)	43,813
Total .. ..	257,421	(a)	(a)	70,594	(a)	(a)	829,558
Bacon and Ham produced (b) tons ..	12,571	7,848	8,725	2,928	3,558	916	36,546
Lard produced (b) .. ..	624	360	821	152	258	66	2,281

(a) Not available for publication; figures are included in total for Australia. (b) Includes particulars of articles produced in other works.

Bacon and ham and other pig products are dealt with more fully in Chapter XXI.—Farmyard, Dairy and Bee Products.

29. *Butter, Cheese and Condensed and Dried Milk.*—(i) *Details of Industry.* The following table shows particulars of butter, cheese and condensed and dried milk factories in each State for 1950-51 and for Australia for a series of years.

## BUTTER, CHEESE AND CONDENSED AND DRIED MILK.

1950-51.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories .. ..	90	142	93	44	16	24	409
Number of persons employed ..	2,259	5,184	1,655	891	343	375	10,707
Salaries and wages paid .. £	1,278,392	3,080,981	822,779	462,070	177,774	197,828	6,019,824
Value of power, fuel, etc., used .. £	383,796	764,430	167,095	94,853	48,296	44,612	1,503,952
Value of materials used .. £	10,978,108	25,762,997	17,007,926	3,693,235	2,075,515	2,062,941	61,580,812
Value of production .. £	1,977,702	5,668,315	1,372,906	782,724	388,830	599,507	10,790,274
Total value of output .. £	13,339,696	32,195,942	18,548,887	4,570,812	2,512,641	2,707,060	73,875,038
Value of land and buildings .. £	1,372,775	2,367,050	960,179	360,305	130,553	208,861	5,399,723
Value of plant and machinery .. £	1,958,280	3,126,754	1,125,344	360,259	205,912	237,659	7,014,208
Horse-power of engines ordinarily in use .. h.p.	21,505	25,971	18,263	5,214	1,552	1,694	74,199

## AUSTRALIA.

Items.	1938-39.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
Number of factories .. ..	523	462	449	434	428	409
Number of persons employed ..	6,851	8,896	9,642	10,016	10,469	10,707
Salaries and wages paid .. £'000	1,570	2,737	3,578	4,237	4,941	6,020
Value of power, fuel, etc., used .. £'000	390	756	874	1,070	1,340	1,504
Value of materials used .. £'000	29,162	34,991	44,419	52,837	60,762	61,581
Value of production .. £'000	3,543	5,924	7,110	7,335	8,099	10,790
Total value of output .. £'000	33,095	40,771	52,403	61,242	70,201	73,875
Value of land and buildings .. £'000	2,880	3,506	4,073	4,236	4,562	5,400
Value of plant and machinery .. £'000	3,067	3,597	4,156	4,679	5,347	7,014
Horse-power of engines ordinarily in use .. h.p.	45,059	60,611	69,769	66,210	69,809	74,199

(ii) *Quantity and Value of Production.* The next table shows the quantities and values of butter, cheese and condensed milk produced and the quantities of milk used in their production during 1950-51. These details are restricted to factory production and therefore exclude farm output.

**BUTTER, CHEESE AND CONDENSED, ETC. MILK FACTORIES: PRODUCTION, 1950-51.**

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
<b>MILK USED ('000 GALLONS).</b>							
For the manufacture of—							
Butter .. .. .	159,511	263,138	215,633	32,605	31,459	28,488	730,834
Cheese .. .. .	6,652	49,040	19,286	18,978	1,628	878	96,462
Condensed, Dried and other Milk Products (including Ice Cream)(b) .. .. .	18,260	59,174	(a)	(a)	(a)	(a)	90,254

<b>PRODUCTS.</b>								
Quantity—								
Butter .. .. . tons	34,318	57,982	47,447	7,378	6,796	5,710	159,631	
Cheese .. .. . "	2,960	22,570	(c) 8,678	8,932	748	412	44,300	
Condensed and concentrated milk .. .. . tons	9,634	41,136	(a)	(a)	(a)	(a)	68,857	
Powdered milk—								
Full cream .. .. . "	5,513	11,598	(a)	(a)	..	(a)	17,594	
Skim .. .. . "	1,640	4,480	..	(a)	..	(a)	6,583	
Value—								
Butter .. .. . £'000	8,694	14,794	12,063	2,036	1,790	1,469	40,846	
Cheese .. .. . "	534	3,357	(c) 1,215	1,367	118	63	6,654	
Condensed and concentrated milk .. .. . £'000	731	4,275	(a)	(a)	(a)	(a)	6,885	
Powdered milk—								
Full cream .. .. . "	1,301	2,590	(a)	(a)	..	(a)	3,972	
Skim .. .. . "	115	369	..	(a)	..	(a)	507	

(a) Not available for publication; figures are included in total for Australia. (b) Includes Whole Milk equivalent of cream and butter fat purchased as such. (c) Includes 265 tons of cheese valued at £34,776, made in establishments not classified as factories.

The butter, cheese and condensed milk industries are dealt with more fully in Chapter XXI.—Farmyard, Dairy and Bee Products.

30. *Meat and Fish Preserving.*—The industries included in this group are engaged chiefly in the freezing and preserving of meat. Works have been established at the seaports for the purpose of handling beef, lamb and mutton for export, and insulated space for the carriage of chilled and frozen produce is provided by shipping companies trading between Australia and other parts of the world. The substitution of chilled for frozen meat exported has already been referred to in Chapter XIX.—Pastoral Production. In recent years there has been considerable expansion in the canning of meat and fish.

**MEAT AND FISH PRESERVING.**

1950-51.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories .. .. .	10	16	19	20	14	7	86
Number of persons employed .. .. .	609	1,074	5,267	289	424	277	7,940
Salaries and wages paid .. .. . £	298,708	636,341	3,245,254	135,583	306,700	129,288	4,751,874
Value of power, fuel, etc., used .. .. . £	35,852	80,799	452,103	13,579	44,259	6,975	633,567
Value of materials used .. .. . £	1,426,083	4,118,080	22,537,028	758,377	1,399,408	338,640	30,577,621
Value of production .. .. . £	328,084	793,232	4,343,900	298,530	542,779	221,669	6,528,194
Total value of output .. .. . £	1,790,024	4,992,111	27,333,031	1,070,486	1,966,446	567,284	37,739,382
Value of land and buildings .. .. . £	165,392	465,712	1,785,857	94,531	375,207	136,587	3,223,286
Value of plant and machinery .. .. . £	193,767	428,967	940,622	71,054	539,385	123,582	2,297,377
Horse-power of engines ordinarily in use .. .. . h.p.	1,674	2,524	20,813	835	3,478	757	30,081

MEAT AND FISH PRESERVING—continued.

AUSTRALIA.

Items.	1938-39.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
Number of factories ..	32	57	81	81	86	86
Number of persons employed ..	4,093	6,741	7,883	7,765	8,552	7,940
Salaries and wages paid .. £'000	1,180	2,297	3,232	3,343	4,165	4,752
Value of power, fuel, etc., used .. £'000	134	257	353	421	550	633
Value of materials used .. £'000	6,351	11,800	17,722	18,420	23,640	30,578
Value of production .. £'000	1,601	3,439	4,776	5,431	7,200	6,528
Total value of output .. £'000	8,086	15,496	22,851	24,272	31,390	37,739
Value of land and buildings .. £'000	1,966	2,412	2,784	2,977	3,015	3,223
Value of plant and machinery .. £'000	1,325	1,541	1,706	1,746	1,970	2,297
Horse-power of engines ordinarily in use .. h.p.	13,385	21,696	26,717	27,149	28,668	30,081

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 XIX.—Pastoral Production.

31. **Breweries.**—(i) *Details of Industry.* The following table gives particulars of breweries in each State for the year 1950-51 and for Australia for a series of years. It should be noted, however, that the data shown are not strictly comparable throughout, owing to the inability or failure of some breweries to furnish a separate return for each branch of activity. Consequently the figures for some States include details of employment, wages, output, etc., not connected with the brewing of beer, although associated with it. These extraneous activities include cooperage, malt works, aerated waters, etc.

BREWERIES.

1950-51.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	6	7	6	4	4	2	29
Number of persons employed ..	1,552	1,923	668	645	(a)	(a)	5,517
Salaries and wages paid .. £	1,035,362	1,374,366	367,340	412,719	(a)	(a)	3,665,821
Value of power, fuel, etc., used .. £	334,638	222,961	89,485	78,655	(a)	(a)	849,382
Value of materials used .. £	2,863,980	2,843,521	757,002	1,016,068	(a)	(a)	9,080,926
Value of production .. £	3,018,559	2,210,634	1,133,499	791,683	(a)	(a)	8,457,321
Total value of output(b) .. £	6,217,177	5,277,116	1,979,986	1,886,406	(a)	(a)	18,387,609
Value of land and buildings .. £	1,333,107	2,227,810	789,114	258,508	(a)	(a)	5,162,381
Value of plant and machinery .. £	978,778	1,614,970	674,430	625,028	(a)	(a)	4,488,732
Horse-power of engines ordinarily in use .. h.p.	10,066	7,210	4,824	2,698	(a)	(a)	28,765

AUSTRALIA.

Items.	1938-39.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
Number of factories ..	34	33	32	32	30	29
Number of persons employed ..	3,698	4,121	4,677	5,007	5,258	5,517
Salaries and wages paid .. £'000	1,215	1,586	2,030	2,489	2,896	3,666
Value of power, fuel, etc., used .. £'000	251	351	453	571	704	849
Value of materials used .. £'000	3,407	4,256	5,108	6,213	7,584	9,081
Value of production .. £'000	5,372	5,869	6,393	6,743	7,563	8,458
Total value of output(b) .. £'000	9,030	10,476	11,954	13,527	15,851	18,388
Value of land and buildings .. £'000	2,801	3,186	3,242	3,329	3,507	5,162
Value of plant and machinery .. £'000	2,737	2,484	2,796	3,204	3,623	4,489
Horse-power of engines ordinarily in use .. h.p.	23,231	25,927	25,905	25,514	26,512	28,765

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

(ii) *Production, Consumption, Materials Used.* The quantity of ale, stout and beer brewed fell from 73.7 million gallons in 1928-29 to 49.8 million gallons in 1931-32, but thereafter increased each year to 109.2 million gallons in 1941-42. Under the Control of Liquor Order which operated between March, 1942 and March, 1946, the production of beer was restricted and consequently output remained static at about 100 million gallons from 1942-43 to 1944-45. Thereafter production increased, and in 1951-52 amounted to 185 million gallons.

The average annual consumption of ale, stout and beer prior to the economic depression of the early thirties exceeded 11 gallons per head of the population: it dropped to 7.32 gallons in 1931-32, increased to 13.76 gallons in 1941-42 and declined again to about 13 gallons during the period of control. The consumption per head had increased to 20.46 gallons by 1951-52.

The table below shows the quantities of raw materials used and the quantity and value of ale, stout and beer (excluding waste beer) brewed in each State during 1950-51 :—

**BREWERIES : MATERIALS USED AND PRODUCTION, 1950-51.**

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
<b>RAW MATERIALS USED.</b>							
Total—							
Malt .. bus.	1,760,666	1,536,014	545,982	(a)	594,030	(a)	5,125,124
Hops .. lb.	1,614,890	1,073,874	381,639	(a)	385,460	(a)	4,033,239
Sugar .. cwt.	270,740	197,500	70,240	(a)	38,880	(a)	660,620
Per 1,000 gallons of Ale, Stout and Beer brewed—							
Malt .. bus.	28.41	29.04	30.91	29.72	36.05	38.29	30.04
Hops .. lb.	26.06	20.30	21.61	28.38	23.39	21.52	23.64
Sugar .. cwt.	4.37	3.73	3.98	4.32	2.36	2.40	3.87
<b>ALE, STOUT AND BEER BREWED (EXCLUDING WASTE BEER).</b>							
Quantity '000 gals.	61,966	52,897	17,662	(a)	16,479	(a)	170,635
Value(b) '£'000	6,129	5,226	1,974	(a)	2,274	(a)	18,042

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

32. **Wineries and Distilleries.**—The following table shows particulars of the operations of Wineries and Distilleries for each State during 1950-51 and for Australia for a series of years.

**WINERIES AND DISTILLERIES.**

1950-51.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	25	31	5	73	18	I	153
Number of persons employed ..	294	394	146	1,269	(a)	(a)	2,158
Salaries and wages paid .. £	169,767	202,027	78,012	652,171	(a)	(a)	1,121,559
Value of power, fuel, etc., used .. £	63,470	80,371	52,567	96,360	(a)	(a)	294,049
Value of materials used .. £	872,512	661,537	190,328	3,003,694	(a)	(a)	4,809,716
Value of production .. £	409,726	461,113	272,982	1,437,900	(a)	(a)	2,636,977
Total value of output .. £	1,345,708	1,203,021	515,877	4,537,954	(a)	(a)	7,740,742
Value of land and buildings .. £	516,088	232,525	78,511	923,437	(a)	(a)	1,795,178
Value of plant and machinery .. £	401,211	290,648	161,990	668,883	(a)	(a)	1,556,364
Horse-power of engines ordinarily in use .. h.p.	1,369	2,285	305	4,979	(a)	(a)	9,189

**AUSTRALIA.**

Items.	1938-39.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
Number of factories ..	135	138	143	146	146	153
Number of persons employed ..	1,133	1,771	2,032	2,146	2,130	2,158
Salaries and wages paid .. £'000	246	519	748	870	976	1,122
Value of power, fuel, etc., used .. £'000	58	130	190	240	260	294
Value of materials used .. £'000	1,421	2,982	3,662	4,127	4,484	4,810
Value of production .. £'000	811	1,333	2,132	2,130	2,169	2,637
Total value of output .. £'000	2,290	4,445	5,984	6,497	6,913	7,741
Value of land and buildings .. £'000	1,002	1,065	1,273	1,358	1,500	1,795
Value of plant and machinery .. £'000	916	998	1,138	1,250	1,210	1,556
Horse-power of engines ordinarily in use .. h.p.	4,396	6,185	6,899	7,499	8,175	9,189

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

33. **Tobacco, Cigars and Cigarettes.**—Particulars of establishments in which the manufacture of tobacco, cigars or cigarettes was carried on during 1950-51 are shown below for each State and for Australia for a series of years. There are no such factories in Tasmania.

**TOBACCO, CIGARS AND CIGARETTES.**

1950-51.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Australia.
Number of factories ..	13	14	8	I	I	37
Number of persons employed ..	2,606	2,044	(a)	(a)	(a)	5,044
Salaries and wages paid .. £	1,246,641	976,331	(a)	(a)	(a)	2,380,244
Value of power, fuel, etc., used .. £	61,055	24,902	(a)	(a)	(a)	89,866
Value of materials used .. £	10,325,135	5,756,389	(a)	(a)	(a)	16,599,236
Value of production .. £	2,381,899	2,194,664	(a)	(a)	(a)	4,897,339
Total value of output .. £	12,768,089	7,975,955	(a)	(a)	(a)	21,586,441
Value of land and buildings .. £	724,198	700,267	(a)	(a)	(a)	1,485,335
Value of plant and machinery .. £	464,770	629,946	(a)	(a)	(a)	1,170,672
Horse-power of engines ordinarily in use .. h.p.	3,875	1,942	(a)	(a)	(a)	6,056

TOBACCO, CIGARS AND CIGARETTES—*continued.*

## AUSTRALIA.

Items.	1938-39.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
Number of factories .. ..	30	26	33	37	37	37
Number of persons employed .. ..	5,544	5,255	5,470	5,219	5,167	5,044
Salaries and wages paid .. .. £'000	1,096	1,300	1,677	1,828	1,992	2,380
Value of power, fuel, etc., used .. .. £'000	34	52	62	74	89	90
Value of materials used .. .. £'000	7,081	10,602	14,492	13,751	15,016	16,599
Value of production .. .. £'000	2,685	2,389	3,361	3,788	3,869	4,897
Total value of output .. .. £'000	9,800	13,043	17,915	17,613	18,974	21,586
Value of land and buildings .. .. £'000	1,042	959	1,143	1,175	1,276	1,485
Value of plant and machinery .. .. £'000	943	724	933	1,009	1,060	1,171
Horse-power of engines ordinarily in use .. .. h.p.	4,610	5,267	5,946	6,190	4,610	6,056
Leaf used—						
Australian (stemmed) .. .. '000 lb.	4,489	4,685	2,924	3,084	3,313	3,775
Imported (stemmed) .. .. '000 lb.	16,011	18,822	23,675	22,775	24,043	24,558
Tobacco made .. .. '000 lb.	16,305	17,901	19,715	19,256	20,168	20,967
Cigars made .. .. '000 lb.	238	125	163	169	169	179
Cigarettes made .. .. '000 lb.	6,731	8,482	10,147	9,701	10,341	10,679

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

For many years the production of locally-grown leaf was comparatively small, and manufacturers were dependent on imported leaf for the supply of their raw material. Increased import duties stimulated local production, and the quantity of Australian leaf used by manufacturers rose from 1.2 million lb. in 1929-30 to over 3 million lb. in 1930-31. During the 1939-45 War about 4.7 million lb. of Australian-grown leaf was used annually, but in subsequent years the figure fell, and the 1950-51 usage was 3.8 million lb. In this connexion, see Chapter XX.—Agricultural Production.

Imports of tobacco during 1950-51 comprised—manufactured tobacco, 540,407 lb.; cigars, 46,413 lb.; cigarettes, 10,594,207 lb.; unmanufactured tobacco, 26,605,311 lb.

34. *Sawmills, etc.*—The most important industry in Class X. is that of sawmilling. Because of difficulties associated with the classifying of sawmills into forest and town, they have been combined in the following table, together with plywood and bark mills.

## SAWMILLS, PLYWOOD AND BARK MILLS.

## 1950-51.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories .. ..	1,010	620	661	83	206	357	2,937
Number of persons employed .. ..	10,553	6,847	8,140	1,929	3,369	2,140	32,978
Salaries and wages paid .. .. £	4,766,980	3,342,279	3,534,437	924,407	1,472,925	958,121	14,999,149
Value of power, fuel, etc., used .. .. £	342,402	256,314	211,440	40,437	115,720	65,813	1,032,126
Value of materials used .. .. £	13,853,886	7,941,043	5,858,875	3,331,279	2,217,556	1,762,687	34,964,826
Value of production .. .. £	8,760,445	6,049,816	5,901,818	1,773,778	2,601,202	1,659,647	26,746,706
Total value of output .. .. £	22,956,233	14,247,173	11,972,133	5,145,494	4,934,478	3,488,147	62,743,658
Value of land and buildings .. .. £	2,132,195	1,460,730	933,902	555,365	483,635	253,100	5,818,927
Value of plant and machinery .. .. £	2,927,338	2,240,693	1,873,310	352,822	887,900	598,560	8,880,623
Horse-power of engines ordinarily in use .. .. h.p.	92,671	66,108	59,241	14,208	21,507	22,497	276,232

## AUSTRALIA.

Items.	1938-39.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
Number of factories .. ..	1,660	1,765	2,241	2,541	2,781	2,937
Number of persons employed .. ..	19,104	22,591	27,811	30,067	31,493	32,978
Salaries and wages paid .. .. £'000	3,635	5,842	8,537	10,402	12,031	14,999
Value of power, fuel, etc., used .. .. £'000	226	375	534	657	804	1,032
Value of materials used .. .. £'000	8,523	12,174	19,971	23,428	27,020	34,965
Value of production .. .. £'000	5,789	9,159	14,453	17,505	20,727	26,747
Total value of output .. .. £'000	14,538	21,708	34,958	41,590	48,551	62,744
Value of land and buildings .. .. £'000	2,055	2,523	3,292	3,825	4,477	5,819
Value of plant and machinery .. .. £'000	2,786	3,461	4,677	5,716	7,077	8,881
Horse-power of engines ordinarily in use .. .. h.p.	90,315	132,767	175,822	208,230	243,927	276,232

The sawmill output of native timber, which declined from 740 million super. feet in 1925-26 to the abnormally low figure of 237 million super. feet during the depth of the depression, recovered to 717 million super. feet in 1938-39 and by 1950-51 had risen to 1,261 million super. feet. Further reference is made to the sawmilling industry in Chapter XXII.—Forestry.

35. **Cabinet and Furniture Making and Upholstery.**—These industries constitute the principal manufactures in Class XI. The following table shows particulars for each State in 1950-51:—

**CABINET AND FURNITURE MAKING AND UPHOLSTERY, 1950-51.**

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australin.
Number of factories . . . . .	441	487	216	114	141	71	1,470
Number of persons employed . .	5,719	5,015	2,792	1,653	1,263	584	17,026
Salaries and wages paid £	2,810,385	2,260,861	1,102,076	699,282	489,751	223,190	7,585,545
Value of power, fuel, etc., used £	62,307	41,458	21,603	18,002	10,691	3,244	157,305
Value of materials used £	5,087,198	3,865,247	1,909,943	1,205,506	883,079	259,364	13,210,337
Value of production . . . . .	4,415,805	3,881,598	1,714,951	1,134,812	791,971	337,797	12,276,934
Total value of output £	9,565,310	7,788,303	3,646,497	2,358,320	1,685,741	600,405	25,644,576
Value of land and buildings £	1,495,551	1,488,731	536,253	325,110	295,736	129,906	4,271,287
Value of plant and machinery £	511,495	441,810	212,040	155,167	139,755	45,974	1,506,241
Horse-power of engines ordinarily in use . . . . . h.p.	14,853	13,765	6,049	4,933	3,255	1,436	44,291

36. **Printing Works.**—Printing and bookbinding rank high in importance among the industries of Australia, and in 1950-51 afforded employment for 35,292 employees, and paid £18,558,000 in salaries and wages, while the value of output amounted to £61,043,000. The first table below gives particulars of establishments engaged in general printing in each State for 1950-51. These establishments include those engaged in lithographic printing, bookbinding, paper ruling and linotyping and Government printing works. Establishments producing newspapers and periodicals are shown separately in the second table to follow:—

**GOVERNMENT AND GENERAL PRINTING WORKS, 1950-51.**

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories . . . . .	420	436	98	66	73	17	1,110
Number of persons employed . .	8,944	7,658	2,242	1,551	1,335	583	22,315
Salaries and wages paid £	4,704,894	3,887,074	946,158	710,720	550,294	278,606	11,077,746
Value of power, fuel, etc., used £	129,717	81,492	22,175	16,185	14,604	4,686	268,949
Value of materials used £	6,023,463	5,243,758	1,113,618	744,495	703,600	242,872	14,071,860
Value of production . . . . .	7,892,812	6,464,206	1,538,392	1,152,848	1,029,460	413,095	18,400,813
Total value of output £	14,045,992	11,789,456	2,674,185	1,913,528	1,747,754	660,653	32,831,568
Value of land and buildings £	2,712,347	2,550,601	419,621	336,459	323,710	134,623	6,477,361
Value of plant and machinery £	3,229,646	2,637,317	421,734	520,340	393,975	138,185	7,341,197
Horse-power of engines ordinarily in use . . . . . h.p.	14,618	10,091	1,758	1,677	1,638	657	30,439

**NEWSPAPERS AND PERIODICALS, 1950-51.**

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories . . . . .	179	114	57	32	29	8	419
Number of persons employed . .	8,891	3,363	1,818	931	629	345	12,977
Salaries and wages paid £	3,418,841	2,053,159	932,416	534,482	340,090	201,357	7,480,705
Value of power, fuel, etc., used £	126,709	62,595	38,238	17,330	16,373	4,688	265,933
Value of materials used £	6,797,498	4,259,889	1,356,678	1,039,077	552,512	154,336	14,159,990
Value of production . . . . .	6,670,178	3,408,766	1,684,266	1,068,571	698,055	255,414	13,785,250
Total value of output £	13,594,385	7,731,250	3,079,182	2,124,978	1,266,940	414,438	28,211,173
Value of land and buildings £	2,728,048	936,415	660,438	498,702	263,972	110,092	5,197,667
Value of plant and machinery £	2,587,679	2,572,702	848,011	172,282	251,922	88,077	6,520,673
Horse-power of engines ordinarily in use . . . . . h.p.	16,100	8,581	4,089	2,402	1,978	556	33,706

37. **Paper Making.**—Although the paper manufacturing industry has been established in Australia for many years it was not until the manufacture of paper pulp from indigenous timber commenced in 1938-39 that any marked development occurred.

Plants producing pulp from eucalypt timber are operating in Victoria and Tasmania, whilst in South Australia pulp is being produced from locally-grown softwoods. The production of pulp rose from 6,000 tons in 1938-39 to 88,000 tons in 1946-47, and remained about this level until 1950-51, when production totalled 95,000 tons.



The number of factories operating in 1950-51 comprised two in New South Wales, seven in Victoria, one in Queensland, South Australia and Western Australia and two in Tasmania. In the latter State, newsprint, writing and printing papers are produced, and in the other States wrappings, other papers and boards. Particulars for this industry are shown in the following table.

## PAPER MAKING, INCLUDING PULP MILLS: AUSTRALIA.

Items.	1938-39.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
Number of factories .. .. .	7	12	12	14	14	14
Number of persons employed .. .. .	1,961	4,705	5,260	5,991	6,160	6,336
Salaries and wages paid .. .. .	£'000 467	1,577	2,350	2,881	3,183	4,231
Value of power, fuel, etc., used .. .. .	£'000 201	599	849	941	998	1,181
Value of materials used .. .. .	£'000 1,096	3,802	4,979	5,768	6,154	7,487
Value of production .. .. .	£'000 1,005	3,017	4,430	5,649	6,581	9,165
Total value of output .. .. .	£'000 2,302	7,418	10,258	12,358	13,733	17,833
Value of land and buildings .. .. .	£'000 850	1,525	1,833	2,526	3,331	4,871
Value of plant and machinery .. .. .	£'000 1,713	2,509	3,585	4,641	5,754	9,814
Horse-power of engines ordinarily in use .. .. .	h.p. 31,548	68,215	75,453	79,223	95,999	103,098

38. **Rubber Goods.**—The following table shows particulars of this industry for each State during 1950-51 and excludes establishments engaged primarily in the retreading and repairing of tyres.

## RUBBER GOODS, 1950-51.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories .. .. .	24	38	8	8	2	..	80
Number of persons employed .. .. .	5,687	4,448	(a)	505	(a)	..	11,454
Salaries and wages paid .. .. .	£ 3,699,571	2,859,043	(a)	268,097	(a)	..	7,218,405
Value of power, fuel, etc., used .. .. .	£ 433,613	500,232	(a)	22,593	(a)	..	984,529
Value of materials used .. .. .	£ 12,965,832	13,082,745	(a)	434,038	(a)	..	27,510,509
Value of production .. .. .	£ 4,104,581	5,875,555	(a)	434,396	(a)	..	10,929,640
Total value of output .. .. .	£ 17,504,026	19,458,532	(a)	891,027	(a)	..	39,424,682
Value of land and buildings .. .. .	£ 849,949	1,501,294	(a)	54,586	(a)	..	2,620,969
Value of plant and machinery .. .. .	£ 980,463	1,468,758	(a)	100,134	(a)	..	2,852,975
Horse-power of engines ordinarily in use .. .. .	h.p. 37,024	37,584	(a)	1,788	(a)	..	81,315

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

39. **Electric Light and Power Works.**—(i) *Details of Industry.* The increased demand for electrical energy has been responsible for considerable development in electric light and power works during recent years. For further information on this subject see Chapter XXV.—Electric Power Generation and Distribution. Particulars of the industry for each State during the year 1950-51 and for Australia for a series of years are shown below:—

## ELECTRIC LIGHT AND POWER WORKS.

1950-51.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories .. .. .	90	69	45	34	113	3	354
Number of persons employed .. .. .	4,976	2,453	1,023	1,290	1,023	125	9,990
Salaries and wages paid .. .. .	£ 2,869,367	1,593,944	606,570	915,378	617,881	76,864	6,680,004
Value of power, fuel, etc., used .. .. .	£ 9,772,784	4,801,372	2,778,329	2,183,492	1,722,616	227	21,258,820
Value of materials used .. .. .	£ 1,413,384	359,315	462,132	201,388	246,000	29,813	2,712,032
Value of production .. .. .	£ 7,762,553	3,140,519	1,207,388	964,571	858,885	588,646	14,522,562
Total value of output .. .. .	£ 18,948,721	8,301,206	4,447,849	3,349,451	2,827,501	618,686	38,493,414
Value of land and buildings .. .. .	£ 8,129,029	2,754,496	1,362,249	2,571,466	927,126	1,187,255	16,931,621
Value of plant and machinery .. .. .	£ 18,982,170	13,629,496	5,666,367	5,228,374	3,345,871	6,588,914	53,441,192

## AUSTRALIA.

Items.	1938-39.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
Number of factories .. .. .	395	372	363	363	358	354
Number of persons employed .. .. .	6,508	7,071	8,426	8,937	9,595	9,990
Salaries and wages paid .. .. .	£'000 1,977	2,588	3,874	4,819	5,466	6,680
Value of power, fuel, etc., used .. .. .	£'000 3,239	6,398	9,450	12,806	15,491	21,259
Value of materials used .. .. .	£'000 530	1,029	1,334	1,845	2,180	2,712
Value of production .. .. .	£'000 8,714	10,563	11,065	12,179	12,841	14,522
Total value of output .. .. .	£'000 12,483	17,990	21,849	26,884	30,512	38,493
Value of land and buildings .. .. .	£'000 8,388	9,235	10,497	11,640	13,486	16,932
Value of plant and machinery .. .. .	£'000 27,751	32,131	34,818	39,083	45,454	53,441

Particulars of the types of engines and generators installed in Electric Light and Power Works and their rated horse-power are given on page 973.

(ii) *Production.* The increase in the production of electric light and power in each of the States since 1938-39 is shown in the following table :—

**ELECTRIC LIGHT AND POWER WORKS : ELECTRICITY PRODUCED.**  
(’000 kWh.)

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
1938-39 .. ..	1,948,490	1,222,505	387,368	256,283	307,002	566,691	4,688,339
1945-46 .. ..	2,831,801	1,904,403	612,672	402,134	338,799	819,958	6,909,767
1947-48 .. ..	3,546,345	2,259,938	759,080	519,531	402,300	872,680	8,359,874
1948-49 .. ..	3,717,030	2,503,981	890,258	566,606	398,594	976,474	9,052,943
1949-50 .. ..	3,758,004	2,706,081	971,630	593,808	417,499	1,061,639	9,508,661
1950-51 .. ..	4,251,442	2,875,866	1,115,348	713,034	469,914	1,077,723	10,503,327

40. *Gas-works.*—(i) *Details of Industry.* Gas-works are in operation in the majority of important towns in Australia. The following table shows particulars of gas-works in each State for the year 1950-51 and for Australia for a series of years :—

**GAS-WORKS.**

1950-51.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories .. ..	39	36	16	3	4	2	100
Number of persons employed ..	1,388	1,391	421	440	(a)	(a)	3,871
Salaries and wages paid .. £	914,957	847,118	238,880	262,758	(a)	(a)	2,400,814
Value of power, fuel, etc., used .. £	1,033,180	75,597	18,531	3,443	(a)	(a)	1,178,908
Value of materials used .. £	3,983,982	3,499,004	642,626	767,325	(a)	(a)	9,450,523
Value of production .. £	2,464,166	1,025,103	482,056	297,063	(a)	(a)	4,425,938
Total value of output .. £	7,481,328	4,599,704	1,143,213	1,067,831	(a)	(a)	15,055,369
Value of land and buildings .. £	1,086,663	565,074	238,522	30,990	(a)	(a)	2,070,523
Value of plant and machinery .. £	3,690,866	5,475,090	983,870	1,270,100	(a)	(a)	12,385,710
Horse-power of engines ordinarily in use .. h.p.	13,607	9,812	1,853	1,560	(a)	(a)	28,205

**AUSTRALIA.**

Items.	1938-39.	1945-46.	1947-48.	1948-49.	1949-50.	1950-51.
Number of factories .. ..	107	104	103	101	100	100
Number of persons employed ..	2,931	3,502	3,718	3,808	3,815	3,871
Salaries and wages paid .. £'000	785	1,194	1,643	1,837	2,027	2,401
Value of power, fuel, light, etc., used .. £'000	251	448	595	723	845	1,179
Value of materials used .. £'000	1,872	3,965	5,255	6,734	7,220	9,450
Value of production .. £'000	2,694	3,313	3,672	3,653	3,663	4,426
Total value of output .. £'000	4,817	7,726	9,522	11,110	11,728	15,055
Value of land and buildings .. £'000	1,463	1,571	1,815	1,813	1,939	2,071
Value of plant and machinery .. £'000	7,498	9,475	10,005	10,907	11,656	12,386
Horse-power of engines ordinarily in use .. h.p.	17,905	24,053	23,994	26,337	26,225	28,205

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

(ii) *Coal Used and Production.* The following table shows details for 1950-51 :—

**GAS-WORKS : COAL USED AND PRODUCTION, 1950-51.**

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Coal used .. tons	878,483	671,020	208,047	125,625	(a)	(a)	1,963,865
Gas produced '000 cubic ft.	19,444,111	11,445,506	2,819,527	2,383,611	(a)	(a)	37,875,418
Gas sold .. tons	16,743,161	9,935,806	2,479,635	2,099,160	(a)	(a)	32,794,896
Coke produced (b) .. tons	586,605	364,925	54,817	70,679	(a)	(a)	1,111,854

(a) Not available for publication ; figures are included in total for Australia. (b) In addition, 1,515,782 tons of metallurgical coke were made in Coke Works in 1950-51.

Since 1938-39, when the output of gas was 21 thousand million cubic feet, production has increased each year and reached 38 thousand million cubic feet in 1950-51.