

## 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 upon 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 upon 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 began, 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 Empire 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. Overseas 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 XII.—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 manufacturers' 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, more detailed reference to which appears on p. 1274, 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 in greater detail on p. 1279, 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 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 Statisticians' Conference, 1945.

Owing to limitations of space, details published in general tables in this chapter are confined either to the sixteen classes of industry or 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, IMPLEMENTS AND 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 (10 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, IMPLEMENTS AND 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.—WOOD WORKING AND BASKETWARE.

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, BEDDING, ETC.

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

CLASS XI.—FURNITURE, BEDDING, ETC.—*continued.*

Picture Frames.  
 Blinds.  
 Other.

## CLASS XII.—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 Material, including Developing and Printing.  
 Toys, Games and Sports Requisites.  
 Artificial Flowers.  
 Other.

## CLASS XVI.—HEAT, LIGHT, AND POWER.

Electric Light and Power.  
 Gas Works.

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

## FACTORIES : AUSTRALIA.

Year.	Fac- tories.	Employ- ment.(a)	Salaries and Wages Paid.(b)	Value of—				
				Materials and Fuel Used.	Output.	Pro- duction. (c)	Land and Build- ings.	Plant and Ma- chinery.
	No.	'000.	£'000.	£'000.	£'000.	£'000.	£'000.	£'000.
1901 .. ..	11,143	198	(d)	(d)	(d)	(d)	(d)	(d)
1911 .. ..	14,455	312	27,528	81,763	133,022	51,259	32,701	31,516
1920—21 .. ..	17,113	367	62,932	213,579	323,993	110,434	60,831	68,655
1930—31 .. ..	25,751	339	62,455	172,489	290,799	118,310	112,211	124,498
1938—39 .. ..	29,941	565	106,743	297,004	500,420	203,416	130,930	143,662
1943—44 .. ..	27,674	767	216,374	495,504	801,739	366,235	177,147	180,993
1944—45 .. ..	28,930	751	207,652	523,722	886,005	352,283	182,580	183,917
1945—46 .. ..	31,784	805	205,819	515,325	1,011,026	410,862	186,939	185,545
1946—47 .. ..	34,768	849	285,765	720,822	1,210,119	489,297	193,152	189,693
1947—48 .. ..	37,356	890	339,287	856,610	1,425,325	568,715	211,143	213,710
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	1,643,411	661,488	259,549	285,602

(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 1949-50 and in the immediately preceding issue to the year 1947-48. Corresponding tables for 1948-49 may be found in the Production Bulletin 1948-49, No. 43, Part 1—Secondary Industries.

## § 2. Number of Factories.

1. Number of Factories in each State.—The following table shows the number of factories in each State for the five years 1945-46 to 1949-50 compared with 1938-39:—

### FACTORIES : NUMBER.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
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
1946-47 ..	13,961	10,949	3,367	2,707	2,615	1,169	34,768
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

2. Number of Factories in Industrial Classes.—(i) *Australia*. The next table shows the number of factories in Australia during 1938-39 and the years 1945-46 to 1949-50 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 hereinafter.

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

Class of Industry.	1938-39.	1945-46.	1946-47.	1947-48.	1948-49.	1949-50.
I. Treatment of Non-metalliferous Mine and Quarry Products .. ..	564	591	743	933	1,025	1,126
II. Bricks, Pottery, Glass, etc. .. ..	471	410	481	517	544	561
III. Chemicals, Dyes, Explosives, Paints, Oils and Grease .. ..	666	886	929	975	1,010	1,006
IV. Industrial Metals, Machines and Conveyances .. ..	7,255	8,816	10,055	10,910	11,801	12,362
V. Precious Metals, Jewellery and Plate .. ..	290	337	465	555	623	619
VI. Textiles and Textile Goods (not Dress) .. ..	611	883	930	982	1,065	1,155
VII. Skins and Leather (not Clothing or Footwear) .. ..	533	651	703	727	746	751
VIII. Clothing (except Knitted) .. ..	4,314	5,215	5,733	6,069	6,533	6,620
IX. Food, Drink and Tobacco .. ..	5,202	5,865	6,236	6,475	6,659	6,796
X. Woodworking and Basketware .. ..	2,822	3,148	3,668	4,001	4,530	4,893
XI. Furniture of Wood, Bedding, etc. .. ..	1,149	1,140	1,407	1,568	1,726	1,820
XII. Paper, Stationery, Printing, Book-binding, etc. .. ..	1,816	1,703	1,779	1,852	1,942	1,981
XIII. Rubber .. ..	299	308	345	371	391	404
XIV. Musical Instruments .. ..	34	41	48	56	64	59
XV. Miscellaneous Products .. ..	413	714	832	899	947	985
Total, Classes I. to XV. .. ..	26,439	30,708	34,294	36,890	39,606	41,138
XVI. Heat, Light and Power .. ..	502	476	474	466	464	458
Grand Total .. ..	26,941	31,184	34,768	37,356	40,070	41,596

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, where there were decreases, the number of factories increased each year from 1931-32 to 1949-50; in the latter year the number of factories in Australia reached the record total of 41,596 or 54.4 per cent. greater than in 1938-39.

(ii) *States, 1949-50.* The following table shows the number of factories in each State in 1949-50, classified according to the nature of the industry :—

**FACTORIES : NUMBER IN INDUSTRIAL CLASSES, 1949-50.**

Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-Metalliferous Mine and Quarry Products ..	396	365	86	129	100	50	1,126
II. Bricks, Pottery, Glass, etc. ..	268	135	46	56	41	15	561
III. Chemicals, Dyes, Explosives, Paints, Oils and Greases ..	500	298	64	68	53	23	1,006
IV. Industrial Metals, Machines, Con- veyances ..	4,931	3,898	1,293	942	948	350	12,362
V. Precious Metals, Jewellery and Plate ..	254	218	40	51	49	7	619
VI. Textiles and Textile Goods (not Dress) ..	414	621	31	45	30	14	1,155
VII. Skins and Leather (not Clothing or Footwear) ..	330	276	54	45	36	10	751
VIII. Clothing (except Knitted) ..	2,895	2,373	458	412	409	73	6,620
IX. Food, Drink and Tobacco ..	2,356	1,918	1,022	643	561	296	6,796
X. Woodworking and Basketware ..	1,813	1,213	811	260	318	478	4,893
XI. Furniture of Wood, Bedding, etc. XII. Paper, Stationery, Printing, Book- binding, etc. ..	611	581	242	143	160	83	1,820
XIII. Rubber ..	812	711	181	123	127	27	1,981
XIV. Musical Instruments ..	155	120	52	40	21	16	404
XV. Miscellaneous Products ..	25	18	4	7	5	..	59
Total, Classes I. to XV. ..	455	383	49	43	46	9	985
XVI. Heat, Light and Power ..	16,215	13,128	4,433	3,007	2,904	1,451	41,138
Grand Total ..	131	103	61	39	119	5	458
	16,346	13,231	4,494	3,046	3,023	1,456	41,596

**§ 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, 1949-50.*—The following table shows, for each State, the number of factories classified according to the average number of persons employed in 1949-50 :—

**FACTORIES : CLASSIFICATION ACCORDING TO SIZE OF FACTORY, 1949-50.**

Size of Factory (Persons employed).	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
<b>NUMBER OF FACTORIES.</b>							
Under 4 ..	4,771	3,944	1,323	826	1,287	553	12,704
4 ..	1,399	1,168	451	306	171	167	3,662
5 to 10 ..	4,585	3,387	1,276	793	793	392	11,226
11 to 20 ..	2,434	1,983	652	486	362	164	6,081
21 to 50 ..	1,898	1,653	479	370	262	106	4,768
51 to 100 ..	661	581	147	143	95	47	1,674
101 to 200 ..	334	281	101	66	37	14	833
201 to 300 ..	88	99	38	22	9	3	259
301 to 400 ..	45	53	9	11	3	2	123
401 to 500 ..	36	20	3	6	2	1	68
501 to 750 ..	44	36	8	6	1	3	98
751 to 1,000 ..	16	12	3	3	..	2	36
Over 1,000 ..	35	14	4	8	1	2	64
<b>Total</b> ..	<b>16,346</b>	<b>13,231</b>	<b>4,494</b>	<b>3,046</b>	<b>3,023</b>	<b>1,456</b>	<b>41,596</b>

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, 1949-50.**

Size of Factory (Persons employed).	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
<b>AVERAGE NUMBER EMPLOYED DURING PERIOD WORKED.</b>							
Under 4 .. ..	9,824	8,005	2,929	1,741	2,685	1,228	26,412
4 .. ..	5,596	4,672	1,804	1,224	684	668	14,648
5 to 10 .. ..	32,064	23,470	8,849	5,560	5,341	2,672	77,956
11 to 20 .. ..	35,290	29,214	9,518	7,022	5,199	2,341	88,584
21 to 50 .. ..	59,404	51,914	15,116	11,397	8,478	3,269	149,578
51 to 100 .. ..	45,817	40,789	10,568	9,879	6,686	3,159	116,898
101 to 200 .. ..	46,249	38,769	14,639	9,206	5,082	1,872	115,817
201 to 300 .. ..	21,205	24,714	8,942	5,329	2,184	779	63,153.
301 to 400 .. ..	15,543	18,550	2,980	3,754	949	711	42,487
401 to 500 .. ..	16,195	9,031	1,344	2,648	855	482	30,555
501 to 750 .. ..	27,117	21,257	4,924	3,466	522	1,777	59,063
751 to 1,000 .. ..	13,663	10,209	2,541	2,533	..	1,858	30,804
Over 1,000 .. ..	60,548	24,316	6,402	15,458	2,756	3,539	113,021
<b>Total .. ..</b>	<b>388,515</b>	<b>304,910</b>	<b>90,556</b>	<b>79,217</b>	<b>41,423</b>	<b>24,355</b>	<b>928,976</b>
<b>Average per Factory .. ..</b>	<b>23.77</b>	<b>23.05</b>	<b>20.15</b>	<b>26.01</b>	<b>13.70</b>	<b>16.73</b>	<b>22.33</b>

3. Australia, 1938-39 and 1945-46 to 1949-50.—In the following table factories in Australia during 1938-39 and each of the five years 1945-46 to 1949-50 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.	Person em- ployed.
<b>1938-39—</b>								
Number .. ..	21,982	129,505	4,013	170,971	946	272,022	26,941	572,498
Average per establishment .. ..	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
<b>1945-46—</b>								
Number .. ..	24,819	154,242	5,080	211,781	1,285	390,538	31,184	756,561
Average per establishment .. ..	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
<b>1946-47—</b>								
Number .. ..	27,676	173,371	5,771	239,768	1,321	399,881	34,768	813,020
Average per establishment .. ..	6.26	..	..	41.55	..	302.77	..	23.38
Proportion of total % .. ..	79.60	21.32	16.60	29.50	3.80	49.18	100	100
<b>1947-48—</b>								
Number .. ..	29,947	187,085	6,014	249,858	1,395	419,725	37,356	856,668
Average per establishment .. ..	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
<b>1948-49—</b>								
Number .. ..	32,394	200,889	6,226	257,204	1,450	439,710	40,070	897,803
Average per establishment .. ..	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
<b>1949-50—</b>								
Number .. ..	33,673	207,600	6,442	266,476	1,481	454,900	41,596	928,976
Average per establishment .. ..	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



### § 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, 982 factories are shown in 1949–50 as using no power other than hand-power, the distribution of these factories among the various industries being as follows: Lime, Plaster and Asphalt, 12; Industrial and Heavy Chemicals and Acids and Pharmaceutical and Toilet Preparations, 11; Galvanized Ironworking, Tinsmithing, 36; Tailoring and Ready-made Clothing, 297; Dressmaking, 79; Millinery, 24; Bakeries, 126; Cabinet and Furniture Making, 32; all others industries, 265.

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 1949–50 :—

**FACTORIES(a): TOTAL RATED HORSE-POWER OF ENGINES AND ELECTRIC MOTORS, 1949–50.**

State.	Number of Establishments.			Rated Horse-power of Engines and Motors.	
	Using Power.	Others.	Total.	Ordinarily in use.	In Reserve or Idle (omitting obsolete).
New South Wales ..	16,158	96	16,254	1,285,130	179,247
Victoria ..	12,800	274	13,164	863,075	112,674
Queensland ..	4,226	223	4,449	311,559	36,905
South Australia ..	2,856	154	3,010	240,090	33,089
Western Australia ..	2,709	199	2,908	120,380	18,160
Tasmania ..	1,417	36	1,453	145,079	20,239
<b>Australia ..</b>	<b>40,256</b>	<b>982</b>	<b>41,238</b>	<b>2,965,313</b>	<b>400,314</b>

(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, 1949–50.**

State.	Total Rated Horse-power of Engines and Electric Motors ordinarily in use.								
	Steam.		Internal Combustion.			Water.	Motors driven by electricity.		Total. (b)
	Reciprocating.	Turbine.	Gas.	Light Oils.	Heavy Oils.		Purchased.	Own Generation. (c)	
N.S.W. ..	107,681	75,824	2,648	31,278	34,474	226	1,032,999	74,162	1,285,130
Victoria ..	23,974	36,414	1,954	10,858	14,134	1,175	774,566	34,493	863,075
Queensland ..	81,409	15,060	6,780	8,877	19,474	..	179,959	52,771	311,559
S. Australia ..	6,642	5,746	1,719	5,405	10,684	10	209,884	19,355	240,090
W. Australia ..	9,719	160	1,933	4,679	11,583	..	92,366	5,745	120,380
Tasmania ..	2,622	2,013	1	6,889	1,802	292	131,460	40	145,079
<b>Australia ..</b>	<b>232,047</b>	<b>135,217</b>	<b>15,035</b>	<b>67,986</b>	<b>92,151</b>	<b>1,703</b>	<b>2,421,174</b>	<b>186,566</b>	<b>2,965,313</b>

(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 1945-46 to 1949-50 compared with 1938-39.

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

Year.	Total Rated Horse-power of Engines and Electric Motors ordinarily in use.								Total. (b)
	Steam.		Internal Combustion.			Water.	Motors driven by electricity.		
	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
1946-47 ..	234,752	110,292	18,522	29,283	58,262	1,964	1,912,926	182,112	2,366,001
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

(a) Excludes Central Electric Stations.

(b) Excludes particulars in column (c).

(iii) *In Classes of Industry, 1949-50.* 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 during 1949-50.

**FACTORIES(a) : TOTAL RATED HORSE-POWER OF ENGINES AND ELECTRIC  
MOTORS ORDINARILY IN USE, 1949-50.**

Class of Industry.	N.S.W.	Vic.	Q'land.	S.Aust.	W.Aust.	Tas.	Aust.
I. Treatment of Non-metallic ferous Mine and Quarry Products .. .. .	68,609	34,479	10,599	11,928	6,498	13,405	145,518
II. Bricks, Pottery, Glass, etc. ..	38,843	22,765	5,278	6,461	4,820	1,246	79,413
III. Chemicals, Dyes, Explosives, Paints, Oils and Grease ..	69,622	71,125	4,844	15,993	8,941	1,927	172,452
IV. Industrial Metals, Machines, Conveyances .. .. .	602,073	250,644	69,198	108,124	31,341	41,076	1,102,456
V. Precious Metals, Jewellery and Plate .. .. .	4,443	5,357	378	809	460	34	11,481
VI. Textiles and Textile Goods (not Dress) .. .. .	46,726	77,268	4,368	6,830	1,597	4,827	141,616
VII. Skins and Leather (not Cloth- ing or Footwear) .. .. .	17,377	16,574	3,599	4,244	2,058	966	44,818
VIII. Clothing (except Knitted) ..	23,417	23,180	2,744	2,478	1,666	540	54,025
IX. Food, Drink and Tobacco ..	163,401	133,819	130,296	43,066	29,260	13,261	513,103
X. Woodworking and Basket- ware .. .. .	122,471	87,868	63,188	21,755	23,981	24,462	343,725
XI. Furniture of Wood, Bedding, etc. .. .. .	15,250	13,483	6,169	5,085	3,642	1,518	45,147
XII. Paper, Stationery, Printing, Bookbinding, etc. .. .. .	46,981	63,413	6,672	8,754	4,088	41,115	171,023
XIII. Rubber .. .. .	37,026	37,455	2,038	1,480	335	226	78,560
XIV. Musical Instruments .. .. .	1,772	301	32	13	10	..	2,128
XV. Miscellaneous Products .. ..	15,064	15,966	347	1,510	415	321	33,623
<b>Total, Classes I. to XV. ..</b>	<b>1,273,075</b>	<b>853,697</b>	<b>309,750</b>	<b>238,530</b>	<b>119,112</b>	<b>144,924</b>	<b>2,939,088</b>
XVI. Gas Works .. .. .	12,055	9,378	1,809	1,560	1,268	155	26,225
<b>Grand Total .. .. .</b>	<b>1,285,130</b>	<b>863,075</b>	<b>311,559</b>	<b>240,090</b>	<b>120,380</b>	<b>145,079</b>	<b>2,965,313</b>

(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 1949-50 are given in the following table:—

**CENTRAL ELECTRIC STATIONS : POWER EQUIPMENT, AUSTRALIA, 1949-50.**

Particulars.	Capacity of Engines and Generators.						
	Steam.		Internal Combustion.			Water.	Total.
	Reciprocating.	Turbine.	Gas.	Light Oils.	Heavy Oils.		
Engines installed Rated H.P.	18,378	2,579,735	20,967	8,734	214,848	401,219	3,243,881
Generators installed— Kilowatt capacity—							
Total installed .. K.W.	12,436	1,910,333	14,456	4,844	142,521	284,233	2,368,823
Effective capacity .. „	11,761	1,649,473	11,405	3,607	129,699	289,020	2,094,965
Horse-power equivalent—							
Total installed .. H.P.	16,670	2,560,763	19,378	6,493	191,047	381,008	3,175,359
Effective capacity .. „	15,765	2,211,086	15,288	4,835	173,859	387,426	2,808,259

(ii) *States.* Details of the capacity of engines and generators installed in Central Electric Stations in each State in 1949-50 are given in the next table.

**CENTRAL ELECTRIC STATIONS : POWER EQUIPMENT, 1949-50.**

Particulars.	N.S.W.	Vic.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Engines installed Rated H.P.	1,270,624	905,099	346,889	281,809	168,410	271,050	3,243,881
Generators installed— Kilowatt capacity—							
Total installed .. K.W.	980,871	619,889	246,974	206,743	119,396	194,950	2,368,823
Effective capacity .. „	850,332	584,498	160,265	190,461	109,187	200,222	2,094,965
Horse-power equivalent—							
Total installed .. H.P.	1,314,838	830,949	331,064	277,135	160,047	261,326	3,175,359
Effective capacity .. „	1,139,853	783,508	214,832	255,309	146,363	268,394	2,808,259

**§ 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 proprietor; (ii) managers and overseers; (iii) accountants and clerks; (iv) engaged drivers 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 figure represents 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, 1938-39 to 1949-50.* Particulars of the number employed, the increase in employment and the rate per cent. of such increase are given for years 1938-39 to 1949-50 in the following table:—

**FACTORIES : EMPLOYMENT, AUSTRALIA.**

Year.	Males.			Females.			Persons.		
	Number Em- ployed.	Increase on Previous Year.		Number Em- ployed.	Increase on Previous Year.		Number Em- ployed.	Increase on Previous 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
1941-42 ..	524,383	51,345	10.85	200,959	23,944	13.53	725,342	75,269	11.58
1942-43 ..	535,570	11,187	2.13	223,475	22,516	11.20	759,045	33,703	4.65
1943-44 ..	539,141	3,571	0.57	227,365	3,890	1.74	766,506	7,461	0.98
1944-45 ..	535,893	-3,248	-0.60	214,686	-12,679	-5.58	750,579	-15,927	-2.08
1945-46 ..	548,888	12,995	2.42	196,370	-18,316	-8.53	745,258	-5,321	-0.71
1946-47 ..	604,300	55,412	10.10	200,629	4,259	2.17	804,929	59,671	8.01
1947-48 ..	640,925	36,625	6.06	207,951	7,322	3.65	848,876	43,947	5.46
1948-49 ..	670,676	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

NOTE.—Minus sign (-) indicates decrease.

(iii) *States, 1938-39 and 1945-46 to 1949-50.* The following table shows, for each of the years 1938-39 and 1945-46 to 1949-50 (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 Australia; and (c) the number 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.	Tasmania.	Australia.
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
1946-47 ..	343,119	265,757	71,599	70,711	33,806	19,937	804,929
1947-48 ..	363,365	278,271	76,754	73,346	35,967	21,173	848,876
1948-49 ..	378,380	292,006	82,945	82,945	38,354	22,602	890,232
1949-50 ..	382,385	303,476	88,963	78,598	40,733	23,506	917,661
PERCENTAGE OF AUSTRALIAN TOTAL.							
1938-39 ..	40.48	35.72	9.58	7.67	4.11	2.44	100
1945-46 ..	41.72	34.38	8.78	8.48	4.06	2.58	100
1946-47 ..	42.63	33.01	8.90	8.78	4.20	2.48	100
1947-48 ..	42.81	32.78	9.04	8.64	4.24	2.49	100
1948-49 ..	42.50	32.80	9.32	8.53	4.31	2.54	100
1949-50 ..	41.67	33.07	9.69	8.57	4.44	2.56	100

FACTORIES : EMPLOYMENT—*continued.*

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
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
1946-47 ..	1,158	1,303	653	1,104	680	783	1,070
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

2. Rates of Increase. 1938-39 and 1945-46 to 1949-50.—The percentage increase on the average number of persons employed in the preceding year is shown below for each State for 1938-39 and 1945-46 to 1949-50.

## FACTORIES : ANNUAL PERCENTAGE INCREASE OF PERSONS EMPLOYED.

Year.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
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
1946-47 ..	10.37	3.71	9.38	11.91	11.73	3.65	8.01
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

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 group in Australia for the years 1938-39 and 1945-46 to 1949-50.

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

Class of Industry.	1938-39.	1945-46.	1946-47.	1947-48.	1948-49.	1949-50.
I. Treatment of Non-metalliferous Mine and Quarry Products ..	10,343	9,929	12,673	14,263	15,572	16,598
II. Bricks, Pottery, Glass, etc. ..	15,709	13,466	10,535	17,536	18,702	19,241
III. Chemicals, Dyes, Explosives, Paints Oils and Grease ..	19,816	31,471	31,252	31,808	33,355	34,525
IV. Industrial Metals, Machines, Conveyances ..	177,677	292,477	300,921	320,948	333,313	344,313
V. Precious Metals, Jewellery and Plate ..	3,726	3,240	4,921	6,069	6,414	6,638
VI. Textiles and Textile Goods (not Dress)	46,082	55,008	59,810	61,911	64,855	65,528
VII. Skins and Leather (not Clothing or Footwear) ..	10,767	14,492	16,080	15,624	15,902	16,277
VIII. Clothing (except Knitted) ..	86,092	93,370	106,894	111,693	118,133	118,757
IX. Food, Drink and Tobacco ..	83,846	105,878	109,840	113,595	118,259	122,783
X. Woodworking and Basketware ..	30,739	38,346	43,457	47,052	51,206	53,169
XI. Furniture of Wood, Bedding, etc. ..	15,287	13,107	16,579	18,546	20,024	21,021
XII. Paper, Stationery, Printing, Book-binding, etc. ..	39,913	39,095	46,651	47,813	50,571	53,002
XIII. Rubber ..	7,502	8,609	10,173	10,753	11,808	12,382
XIV. Musical Instruments ..	451	459	788	887	1,250	1,456
XV. Miscellaneous Products ..	7,727	14,838	17,059	18,235	18,123	18,561
Total, Classes I. to XV. ..	555,677	734,685	793,633	836,733	877,487	904,251
XVI. Heat, Light and Power ..	9,429	10,573	11,296	12,143	12,745	13,410
Grand Total ..	565,106	745,258	804,929	848,876	890,232	917,661

Following the outbreak of war in the Pacific in 1941, the transfer of man-power to the more essential industries became apparent, and industries not directly concerned with Australia's war effort showed a marked decline. The industries which declined were those in Class I., Mine and Quarry Products; Class II., Bricks, Pottery, Glass, etc.; Class V., Precious Metals; Class VIII., Clothing; Class XI., Furniture; and Class XII.,

Paper, etc., while industries where the war-time expansion in employment occurred were those in Class III, Chemicals, etc.; Class IV., Metals, etc.; Class VI., Textiles; Class VII., Skins and Leather; and Class IX., Food.

Following some downward movement from war-time levels of employment which occurred in Class III., Chemicals, etc.; Class IV., Metals, etc.; and Class VI., Textiles in 1945-46, there was a general upward trend in 1946-47, and this continued in respect of each class of industry in each successive year.

(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, 1949-50.**

Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W.Aust.	Tas.	Aust.
<i>I. Treatment of Non-metallic Mineral Mine and Quarry Products</i>	6,763	4,998	1,508	1,368	1,267	694	16,598
<i>II. Bricks, Pottery, Glass, etc.</i>	10,504	4,621	1,008	1,791	1,079	238	19,241
<i>III. Chemicals, Dyes, Explosives, Paints, Oils and Grease</i>	16,316	11,590	1,357	3,427	1,530	305	34,525
<i>IV. Industrial Metals, Machines, Conveyances</i>	157,987	98,852	28,724	37,427	14,418	6,905	344,313
<i>V. Precious Metals, Jewellery and Plate</i>	2,212	3,499	327	346	225	29	6,638
<i>VI. Textiles and Textile Goods (not Dress)</i>	23,428	34,264	1,883	2,539	756	2,656	65,528
<i>VII. Skins and Leather (not Clothing or Footwear)</i>	6,418	5,777	1,421	1,469	737	455	16,277
<i>VIII. Clothing (except Knitted)</i>	48,063	48,133	9,409	7,258	4,897	997	118,757
<i>IX. Food, Drink and Tobacco</i>	39,979	38,555	22,832	10,791	6,204	4,422	122,783
<i>X. Woodworking and Basketware</i>	18,678	13,304	9,996	3,702	4,241	3,188	53,169
<i>XI. Furniture of Wood, Bedding, etc.</i>	8,004	5,907	3,103	1,939	1,395	673	21,021
<i>XII. Paper, Stationery, Printing, Bookbinding, etc.</i>	23,081	17,439	4,504	3,371	2,187	2,420	53,002
<i>XIII. Rubber</i>	5,915	4,758	883	585	127	114	12,382
<i>XIV. Musical Instruments</i>	1,155	185	37	56	23	..	1,456
<i>XV. Miscellaneous Products</i>	8,547	7,910	576	873	427	228	18,561
<b>Total, Classes I. to XV.</b>	<b>377,050</b>	<b>299,852</b>	<b>87,570</b>	<b>76,942</b>	<b>39,513</b>	<b>23,324</b>	<b>904,251</b>
<b>XVI. Heat, Light and Power</b>	<b>5,335</b>	<b>3,624</b>	<b>1,393</b>	<b>1,656</b>	<b>1,220</b>	<b>182</b>	<b>13,410</b>
<b>Grand Total</b>	<b>382,385</b>	<b>303,476</b>	<b>88,963</b>	<b>78,598</b>	<b>40,733</b>	<b>23,506</b>	<b>917,661</b>

4. *Persons Employed According to Occupational Status.*—(i) *General.* In the following table the average number of persons employed in each State during 1949-50 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 § 3 par. 1.

**PERSONS EMPLOYED : OCCUPATIONAL STATUS, 1949-50.**

State.	Average Number of Persons Employed.						Total.
	Working Pro-prietors.	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..	13,064	39,254	4,644	15,142	307,716	2,565	382,385
Victoria ..	11,456	29,469	3,462	12,615	244,052	2,422	303,476
Queensland ..	3,936	7,742	635	2,943	73,021	686	88,963
South Australia ..	2,121	8,313	1,109	3,091	63,596	368	78,598
Western Australia..	2,224	2,925	295	1,460	33,695	134	40,733
Tasmania ..	984	2,120	307	967	19,014	114	23,506
<b>Australia ..</b>	<b>33,785</b>	<b>89,823</b>	<b>10,452</b>	<b>36,218</b>	<b>741,094</b>	<b>6,289</b>	<b>917,661</b>

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

(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 1947-48 to 1949-50.*—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.

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

Month.	1938-39.	1945-46.	1947-48.	1948-49.	1949-50.
<b>MALES.</b>					
July .. .. .	387,693	518,734	602,188	627,384	584,355
August .. .. .	389,979	519,122	606,142	628,814	622,254
September .. .. .	391,576	511,909	608,934	629,426	647,097
October .. .. .	393,977	505,753	608,651	629,671	652,632
November .. .. .	395,192	503,296	608,531	632,557	655,266
December .. .. .	394,438	489,040	608,135	631,782	655,475
January .. .. .	385,742	513,396	608,046	632,979	658,251
February .. .. .	392,056	533,761	609,111	637,181	664,716
March .. .. .	395,146	543,347	610,476	641,432	669,505
April .. .. .	391,005	547,253	619,963	640,693	669,558
May .. .. .	393,609	553,980	622,665	644,806	674,432
June .. .. .	390,973	558,428	625,019	646,383	677,682
<b>FEMALES.</b>					
July .. .. .	147,282	204,705	200,857	209,489	195,017
August .. .. .	149,294	204,150	201,697	210,574	211,520
September .. .. .	151,159	199,331	203,009	212,656	219,868
October .. .. .	152,473	193,587	204,329	214,062	222,681
November .. .. .	152,806	191,689	204,931	215,239	225,064
December .. .. .	151,165	183,899	203,568	214,158	223,895
January .. .. .	141,853	184,810	200,980	211,131	223,214
February .. .. .	151,883	188,632	205,741	215,994	228,233
March .. .. .	154,854	192,699	208,250	218,429	231,239
April .. .. .	152,614	192,084	208,488	218,007	230,355
May .. .. .	150,693	192,215	207,385	218,705	231,346
June .. .. .	148,601	192,137	208,041	219,652	231,207
<b>PERSONS.</b>					
July .. .. .	534,975	723,439	803,045	836,873	779,372
August .. .. .	539,273	723,272	807,839	839,388	833,774
September .. .. .	542,735	711,240	811,943	842,082	866,965
October .. .. .	546,450	699,340	812,980	843,733	875,313
November .. .. .	547,998	694,985	813,462	847,796	880,330
December .. .. .	545,603	672,939	811,703	845,940	879,370
January .. .. .	527,595	698,206	809,026	844,110	881,465
February .. .. .	543,939	722,393	814,852	853,175	892,949
March .. .. .	550,000	736,046	818,726	859,861	900,744
April .. .. .	543,619	739,337	828,451	858,700	899,913
May .. .. .	544,302	746,195	830,050	863,511	905,778
June .. .. .	539,574	750,565	833,060	866,035	908,889

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, 1950 are given below :—

**FACTORIES : DISTRIBUTION OF EMPLOYEES ACCORDING TO AGE, JUNE, 1950.**

(EXCLUDING WORKING PROPRIETORS.)

Age Groups.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
<b>MALES.</b>							
Under 16 years ..	2,088	2,670	1,495	724	716	119	7,812
16 years ..	4,211	2,910	1,414	863	800	325	10,523
17 " ..	5,156	3,254	1,559	1,020	901	356	12,246
18 " ..	5,715	3,509	1,617	1,045	832	424	13,142
19 " ..	5,938	3,575	1,599	1,060	765	424	13,361
20 " ..	6,263	3,865	1,530	1,144	813	429	14,044
21 " and over ..	252,500	188,788	62,832	58,072	28,074	16,288	606,554
<b>Total ..</b>	<b>281,871</b>	<b>208,571</b>	<b>72,046</b>	<b>63,928</b>	<b>32,901</b>	<b>18,365</b>	<b>677,682</b>

<b>FEMALES.</b>							
Under 16 years ..	1,584	2,181	1,140	716	362	72	6,055
16 years ..	3,143	2,556	949	603	531	178	7,960
17 " ..	3,892	2,950	972	686	526	251	9,277
18 " ..	4,675	3,200	934	729	579	292	10,409
19 " ..	4,754	3,254	971	700	545	272	10,496
20 " ..	4,607	3,133	844	615	451	229	9,879
21 " and over ..	77,175	70,597	10,525	11,358	4,170	3,306	177,131
<b>Total ..</b>	<b>99,830</b>	<b>87,871</b>	<b>16,335</b>	<b>15,407</b>	<b>7,164</b>	<b>4,600</b>	<b>231,207</b>

<b>PERSONS.</b>							
Under 16 years ..	3,672	4,851	2,635	1,440	1,078	191	13,867
16 years ..	7,354	5,466	2,363	1,466	1,331	503	18,483
17 " ..	9,048	6,204	2,531	1,706	1,427	607	21,523
18 " ..	10,390	6,709	2,551	1,774	1,411	716	23,551
19 " ..	10,692	6,829	2,570	1,760	1,310	696	23,857
20 " ..	10,870	6,998	2,374	1,759	1,264	658	23,923
21 " and over ..	329,675	259,385	73,357	69,430	32,244	19,594	783,685
<b>Total ..</b>	<b>381,701</b>	<b>296,442</b>	<b>88,381</b>	<b>79,335</b>	<b>40,065</b>	<b>22,965</b>	<b>908,889</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 and 1946 to 1950 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
1946 ..	9,016	1.61	69,413	12.43	479,999	85.96	558,428	100
1947 ..	7,998	1.35	71,194	12.00	514,010	86.65	593,202	100
1948 ..	7,734	1.24	68,818	11.01	548,467	87.75	625,019	100
1949 ..	7,791	1.20	66,035	10.22	572,557	88.58	646,383	100
1950 ..	7,812	1.15	63,316	9.34	606,554	89.51	677,682	100
<b>FEMALES.</b>								
1939 ..	15,497	10.43	56,273	37.87	76,831	51.70	148,601	100
1946 ..	7,881	4.10	53,018	27.59	131,238	68.31	192,137	100
1947 ..	7,401	3.70	52,805	26.42	139,687	69.88	199,893	100
1948 ..	6,549	3.15	52,201	25.09	149,291	71.76	208,041	100
1949 ..	6,326	2.88	51,562	23.47	161,764	73.65	219,652	100
1950 ..	6,055	2.62	48,021	20.77	177,131	76.61	231,207	100
<b>PERSONS.</b>								
1939 ..	31,606	5.86	132,691	24.59	375,277	69.55	539,574	100
1946 ..	16,897	2.25	122,431	16.31	611,237	81.44	750,565	100
1947 ..	15,399	1.94	123,999	15.64	653,697	82.42	793,095	100
1948 ..	14,283	1.71	121,019	14.53	697,758	83.76	833,060	100
1949 ..	14,117	1.63	117,597	13.58	734,321	84.79	866,035	100
1950 ..	13,867	1.53	111,337	12.25	783,685	86.22	908,889	100

**§ 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 1949-50 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 1949-50 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 1949-50 the ratio had declined to the level of one female to three males.

(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 and the five years 1945-46 to 1949-50 :—

**FACTORIES : MALES AND FEMALES EMPLOYED.**

State.	1938-39.	1945-46.	1946-47.	1947-48.	1948-49.	1949-50.
<b>MALES.</b>						
New South Wales ..	167,172	227,454	255,733	272,600	282,312	284,055
Victoria ..	136,218	178,951	188,758	199,003	208,184	216,198
Queensland ..	43,941	53,587	59,309	63,526	68,385	72,948
South Australia ..	35,406	49,523	56,739	59,071	61,005	63,294
Western Australia ..	18,704	24,268	27,575	29,517	31,682	33,711
Tasmania ..	11,150	15,105	16,186	17,208	18,508	19,302
Australia ..	412,591	548,888	604,300	640,925	670,076	689,508
<b>FEMALES.</b>						
New South Wales ..	61,609	83,416	87,386	90,765	96,068	98,330
Victoria ..	65,613	77,298	76,999	79,268	83,822	87,278
Queensland ..	10,169	11,873	12,290	13,228	14,560	16,015
South Australia ..	7,965	13,665	13,972	14,275	14,940	15,304
Western Australia ..	4,507	5,988	6,231	6,450	6,672	7,022
Tasmania ..	2,652	4,130	3,751	3,965	4,094	4,204
Australia ..	152,515	196,370	200,629	207,951	220,156	228,153

## SEX DISTRIBUTION IN FACTORIES.

1101

2. **Rate of Variation for each Sex.**—The percentages of increase or decrease on the average numbers of males and females employed in the preceding year are shown below for the years 1938-39 and 1945-46 to 1949-50 :—

## ANNUAL PERCENTAGE INCREASES OF MALES AND FEMALES EMPLOYED.

State.	1938-39.	1945-46.	1946-47.	1947-48.	1948-49.	1949-50.
<b>MALES.</b>						
New South Wales ..	1.69	1.65	12.43	6.60	3.56	6.17
Victoria ..	0.04	2.60	5.48	5.43	4.61	3.85
Queensland ..	3.79	4.09	10.68	7.11	7.65	6.67
South Australia ..	-2.39	0.95	14.57	4.11	3.27	3.75
Western Australia ..	-0.30	8.32	13.63	7.04	7.33	6.40
Tasmania ..	4.40	2.37	7.16	6.31	7.55	4.29
Total ..	0.98	2.42	10.10	6.06	4.55	2.90
<b>FEMALES.</b>						
New South Wales ..	1.88	- 8.24	4.76	3.87	5.84	2.35
Victoria ..	-0.03	- 7.11	-0.39	2.95	5.75	4.12
Queensland ..	3.96	- 6.16	3.51	7.63	10.07	9.99
South Australia ..	1.98	-16.76	2.25	2.17	4.66	2.44
Western Australia ..	3.06	-11.18	4.06	3.51	3.44	5.25
Tasmania ..	6.51	-13.14	-9.18	5.71	3.25	2.72
Total ..	1.30	- 8.53	2.17	3.65	5.87	3.63

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 and 1945-46 to 1949-50 :—

## FACTORIES : MASCULINITY(a) OF PERSONS EMPLOYED.

Year.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
1938-39 ..	271	208	432	445	415	420	271
1945-46 ..	273	232	451	362	405	366	280
1946-47 ..	293	245	483	406	443	432	301
1947-48 ..	300	251	480	474	458	434	308
1948-49 ..	294	248	470	408	475	452	304
1949-50 ..	289	248	455	414	480	459	302

(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 in that year the proportion of males began to fall with the increasing activity in the clothing and textile industries, in which the number of females to males is relatively high. As these trades were not so seriously affected by the depression as the heavier industries, the proportion of males continued to fall, until in 1932-33 there were only 239 males employed to every 100 females. With the recovery of employment in the heavier industries subsequent to that year, the proportion of males per 100 females had increased to 271 in 1937-38 and 1938-39.

The decrease in masculinity from 1938-39 to 1943-44 resulted from the enlistment of men in the armed services and the expansion of industry caused by the war. In many industries the younger men were released for service in the defence forces and large numbers of women were absorbed as an adjustment to the industrial effort of Australia. Following the cessation of hostilities in 1945 and the return of servicemen to civilian life, the number of females employed in factories declined and masculinity increased. In 1949-50 there were 302 males per 100 females employed in factories, compared with 271 in 1938-39.

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 1949-50 these industries accounted for 80.63 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 118 females to every 100 males and in Class VIII., Clothing, with 246 females per 100 males. The following tables show the average number of males and females employed in each of these classes in 1949-50:—

MALES AND FEMALES EMPLOYED IN PARTICULAR INDUSTRIES, 1949-50.

Class.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
<b>MALES.</b>							
IV. Industrial Metals, etc. ..	141,634	88,669	27,350	33,960	13,808	6,586	312,007
VI. Textiles and Textile Goods (not Dress) .. .. .	10,460	15,721	748	1,387	395	1,323	30,034
VIII. Clothing (except Knitted) ..	13,179	14,655	2,499	2,118	1,493	367	34,311
IX. Food, Drink and Tobacco ..	27,675	27,991	19,376	8,061	4,800	3,172	91,075
All Other Classes .. .. .	91,107	69,162	22,975	17,768	13,215	7,854	222,081
<b>Total .. .. .</b>	<b>284,055</b>	<b>216,198</b>	<b>72,948</b>	<b>63,294</b>	<b>33,711</b>	<b>19,302</b>	<b>689,508</b>
<b>FEMALES.</b>							
IV. Industrial Metals, etc. ..	16,353	10,183	1,374	3,467	610	319	32,306
VI. Textiles and Textile Goods (not Dress) .. .. .	12,968	18,543	1,137	1,152	361	1,333	35,494
VIII. Clothing (except knitted) ..	34,884	33,478	6,910	5,140	3,404	630	84,446
IX. Food, Drink and Tobacco ..	12,304	10,564	3,456	2,730	1,404	1,250	31,708
All Other Classes .. .. .	21,821	14,510	3,138	2,815	1,243	672	44,199
<b>Total .. .. .</b>	<b>98,330</b>	<b>87,278</b>	<b>16,015</b>	<b>15,304</b>	<b>7,022</b>	<b>4,204</b>	<b>228,153</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, 1949-50.

Industry.	New South Wales.			Victoria.			Other States.		
	Males.	Females.	Femini- nity. (a)	Males.	Females.	Femini- nity. (a)	Males.	Females.	Femini- nity. (a)
Tailoring and Ready-made Clothing ..	3,383	15,577	460	3,141	7,501	239	1,895	5,753	304
Waterproof and Oil-skin Clothing ..	99	549	555	119	372	313	16	108	675
Dressmaking, Hem-stitching .. .. .	177	2,536	1,433	1,496	10,675	714	202	3,813	1,888
Millinery .. .. .	221	1,426	645	217	975	449	43	603	1,402
Shirts, Collars and Underclothing ..	622	4,756	765	580	4,277	737	185	2,125	1,149
Foundation Garments .. .. .	127	1,527	1,202	186	1,020	548	24	202	842
Handkerchiefs, Ties and Scarves ..	147	821	559	82	441	538	3	2	67
Hats and Caps .. .. .	664	636	96	445	291	65	29	138	476
Gloves .. .. .	106	331	312	110	413	375	36	149	414
Boots and Shoes ..	3,788	3,991	105	5,645	5,684	101	2,181	1,821	83
Boot and Shoe Repairing .. .. .	1,413	85	6	705	30	4	720	36	5
Boot and Shoe Accessories .. .. .	230	242	105	251	260	104	24	2	8
Umbrellas and Walking Sticks .. .. .	44	90	205	22	52	236	24	55	229
Dyeworks and Cleaning (including Renovating and Repairing) ..	2,105	2,012	96	1,592	1,283	81	1,095	1,277	117
Other .. .. .	53	305	575	64	204	319	..	..	..
<b>Total .. .. .</b>	<b>13,179</b>	<b>34,884</b>	<b>265</b>	<b>14,655</b>	<b>33,478</b>	<b>228</b>	<b>6,477</b>	<b>16,084</b>	<b>248</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 and 1946 to 1950.**—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 13,867 in June, 1950, 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 1939 and 1946 to 1950.

#### FACTORIES : CHILDREN EMPLOYED, JUNE.

State.	1939.	1946.	1947.	1948.	1949.	1950.
<b>MALES.</b>						
New South Wales ..	5,759	2,451	2,186	2,125	2,115	2,088
Victoria ..	6,167	3,449	2,929	2,743	2,806	2,670
Queensland ..	1,790	1,237	1,236	1,265	1,336	1,495
South Australia ..	1,296	829	788	732	722	724
Western Australia ..	705	739	673	704	665	716
Tasmania ..	392	311	186	165	147	119
<b>Australia ..</b>	<b>16,109</b>	<b>9,016</b>	<b>7,998</b>	<b>7,734</b>	<b>7,791</b>	<b>7,812</b>
<b>FEMALES.</b>						
New South Wales ..	7,084	2,265	2,094	1,831	1,736	1,584
Victoria ..	5,005	3,007	2,810	2,564	2,354	2,181
Queensland ..	1,334	1,020	998	955	1,068	1,140
South Australia ..	1,053	885	884	722	683	716
Western Australia ..	521	478	454	357	390	362
Tasmania ..	500	226	161	120	95	72
<b>Australia ..</b>	<b>15,497</b>	<b>7,881</b>	<b>7,401</b>	<b>6,549</b>	<b>6,326</b>	<b>6,055</b>
<b>TOTAL.</b>						
New South Wales ..	12,843	4,716	4,280	3,956	3,851	3,672
Victoria ..	11,172	6,456	5,739	5,307	5,160	4,851
Queensland ..	3,124	2,257	2,234	2,220	2,404	2,635
South Australia ..	2,349	1,714	1,672	1,454	1,405	1,440
Western Australia ..	1,226	1,217	1,127	1,061	1,055	1,078
Tasmania ..	892	537	347	285	242	191
<b>Australia ..</b>	<b>31,606</b>	<b>16,897</b>	<b>15,399</b>	<b>14,283</b>	<b>14,117</b>	<b>13,867</b>

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 six years 1939 and 1946 to 1950. In 1950 the proportion was highest in Queensland and lowest in Tasmania.

**PROPORTION OF CHILDREN EMPLOYED TO TOTAL EMPLOYEES, JUNE.**  
(Per cent.)  
(EXCLUDING WORKING PROPRIETORS.)

State.	1939.	1946.	1947.	1948.	1949.	1950.
New South Wales .. ..	5.85	1.48	1.26	1.11	1.06	0.96
Victoria .. ..	5.81	2.53	2.20	1.95	1.82	1.64
Queensland .. ..	6.01	3.63	3.14	2.88	2.91	2.98
South Australia .. ..	5.78	2.64	2.41	2.01	1.87	1.82
Western Australia .. ..	5.61	3.99	3.40	3.04	2.85	2.69
Tasmania .. ..	6.78	2.77	1.75	1.35	1.08	0.83
<b>Australia .. ..</b>	<b>5.86</b>	<b>2.25</b>	<b>1.94</b>	<b>1.71</b>	<b>1.63</b>	<b>1.53</b>

4. **Industries Employing Child Labour.**—The distribution of children employed in factories in June, 1950, 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, JUNE, 1950.**

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..	126	7	16,043	605	%	%
II. Bricks, Pottery, Glass, etc. . .	99	20	18,300	1,516	0.79	1.16
III. Chemicals, Dyes, Explosives, Paints, Oils and Grease . . .	151	139	26,623	8,633	0.56	1.61
IV. Industrial Metals, Machines, Conveyances . . .	3,329	541	316,260	34,922	1.05	1.55
V. Precious Metals, Jewellery and Plate . . .	98	39	5,003	1,136	1.96	3.43
VI. Textiles and Textile Goods (not Dress) . . .	540	993	29,690	36,654	1.82	2.71
VII. Skins and Leather (not Clothing or Footwear) . . .	108	57	12,201	3,964	0.89	1.44
VIII. Clothing (except Knitted) . . .	457	2,988	29,422	84,030	1.55	3.36
IX. Food, Drink and Tobacco . . .	856	568	85,410	30,378	1.00	1.87
X. Woodworking and Basketware . . .	567	54	47,587	2,085	1.19	2.59
XI. Furniture of Wood, Bedding, etc. XII. Paper, Stationery, Printing, Bookbinding, etc. . .	585	72	16,845	3,189	3.47	2.26
XIII. Rubber . . .	651	385	37,945	14,332	1.72	2.69
XIV. Musical Instruments . . .	50	22	10,149	2,808	0.49	0.78
XV. Miscellaneous Products . . .	30	7	1,152	395	2.60	1.77
	145	161	11,616	6,458	1.25	2.49
<b>Total, Classes I. to XV.</b>	<b>7,792</b>	<b>6,053</b>	<b>664,246</b>	<b>231,105</b>	<b>1.17</b>	<b>2.62</b>
<b>XVI. Heat, Light and Power.. . .</b>	<b>20</b>	<b>2</b>	<b>13,436</b>	<b>102</b>	<b>0.15</b>	<b>1.96</b>
<b>Grand Total .. . .</b>	<b>7,812</b>	<b>6,055</b>	<b>677,682</b>	<b>231,207</b>	<b>1.15</b>	<b>2.62</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 1949-50 was £1,645,411,497, of which amount £929,094,287 represented the value of the materials used, including containers, etc., tools replaced and repairs to plant and buildings, and £54,829,516 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 £661,487,694, 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 1949-50 was £385,895,806. This figure, which excludes amounts drawn by working proprietors, was the highest ever recorded and shows an increase of £46,608,646 or 13.74 per cent. on that for the previous year.

2. Salaries and Wages Paid.—(i) *In Classes of Industry, 1949-50.* 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, 1949-50.

(£.)

STATE LIBRARY OF VICTORIA

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
I. Treatment of Non-metaliferous Mine and Quarry Products ..	3,292,038	2,268,181	669,912	623,975	504,617	289,937	7,648,660
II. Bricks, Pottery, Glass, etc. ..	4,719,548	2,078,446	407,043	789,918	441,663	103,144	8,539,762
III. Chemicals, Dyes, Explosives, Paints, Oils and Grease ..	7,430,820	5,579,241	567,100	1,543,094	699,352	157,614	15,977,221
IV. Industrial Metals, Machines, Conveyances ..	73,199,738	46,362,904	11,811,503	17,506,333	5,643,427	3,092,213	157,616,118
V. Precious Metals, Jewellery and Plate ..	834,565	1,540,756	99,612	128,451	79,268	8,713	2,691,365
VI. Textiles and Textile Foods (not Dress) ..	8,595,682	13,126,177	578,969	1,008,217	247,588	1,016,817	24,573,450
VII. Skins and Leather (not Clothing or Footwear) ..	2,790,376	2,652,887	589,946	700,464	306,632	235,991	7,276,296
VIII. Clothing (except Knitted) ..	14,633,252	16,100,274	2,495,102	2,043,042	1,258,228	283,033	36,812,931
LX. Food, Drink and Tobacco ..	16,243,937	17,033,536	9,804,429	4,336,633	2,456,861	1,673,421	51,548,817
X. Woodworking and Basketware ..	7,276,623	5,531,320	3,676,897	1,527,116	1,538,775	1,158,580	20,709,311
XI. Furniture of Wood, Bedding, etc. ..	3,081,782	2,182,019	1,019,030	709,373	466,861	215,212	7,674,277
XII. Paper, Stationery, Printing, Book-binding, etc. ..	10,219,602	7,860,467	1,792,187	1,409,298	849,716	1,196,894	23,328,164
XIII. Rubber ..	3,043,099	2,477,625	335,858	237,903	49,260	40,986	6,184,731
XIV. Musical Instruments ..	425,752	80,203	12,476	18,452	5,656	..	542,539
XV. Miscellaneous Products ..	3,376,145	3,221,052	171,698	311,310	121,696	77,074	7,278,975
Total, Classes I. to XV.	159,162,959	128,095,088	34,031,762	32,893,579	14,669,600	9,549,629	378,402,617
XVI. Heat, Light and Power ..	2,984,135	2,159,606	716,027	913,150	623,641	96,630	7,493,189
Grand Total ..	162,147,094	130,254,694	34,747,789	33,806,729	15,293,241	9,646,259	385,895,806

(ii) *Totals and Averages, 1938-39 and 1945-46 to 1949-50.* 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 average wage paid is not comparable with that shown in similar tables in issues of the Official Year Book prior

to No. 23, 1930, on account of the change in the method of computing the average number of hands employed, as explained earlier. The figures exclude working proprietors and the amounts drawn by them:—

**FACTORIES : TOTAL AND AVERAGE SALARIES AND WAGES PAID.**  
(£.)

Year.	Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
1938-39	Total amount paid ..	44,606,497	36,026,542	10,887,229	8,169,350	4,573,558	2,479,886	106,743,062
	Average per employee ..	201.77	185.64	210.78	195.57	207.90	188.31	196.31
1945-46	Total amount paid ..	87,647,460	70,499,214	18,011,966	16,769,768	7,883,814	5,006,511	205,818,733
	Average per employee ..	290.75	284.09	285.00	272.71	273.01	269.85	285.17
1946-47	Total amount paid ..	103,587,559	77,993,765	20,310,541	20,538,958	9,105,010	5,637,933	237,173,766
	Average per employee ..	312.12	303.82	295.51	298.72	284.35	294.39	305.12
1947-48	Total amount paid ..	125,345,878	93,802,188	24,163,210	24,852,998	10,735,647	6,865,337	285,765,264
	Average per employee ..	357.03	349.36	327.72	348.42	316.26	337.45	348.95
1948-49	Total amount paid ..	146,535,642	112,104,411	29,446,634	29,510,207	12,927,830	8,456,406	339,287,160
	Average per employee ..	401.06	399.86	371.11	399.22	375.18	389.57	395.60
1949-50	Total amount paid ..	162,147,094	130,254,694	34,747,789	33,806,729	15,293,241	9,646,259	385,895,506
	Average per employee ..	439.04	446.05	408.67	442.05	397.13	428.30	436.59

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 1949-50 were paid in Victoria, South Australia and New South Wales 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 1949-50 reached a new record level of over £436.

(iii) *Earnings of Males and Females, 1949-50.* The following table shows the amount of salaries and wages paid to males and females in each class of industry in each State during the year 1949-50:—

**SALARIES AND WAGES : MALE AND FEMALE FACTORY EMPLOYEES, 1949-50.**  
(£.)

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
<b>MALES.</b>							
I. Treatment of Non-metaliferous Mine and Quarry Products ..	3,227,836	2,217,884	655,269	611,413	496,752	286,596	7,495,750
II. Bricks, Pottery, Glass etc. ..	4,518,800	1,975,767	399,336	762,508	429,296	101,914	8,187,621
III. Chemicals, Dyes, Explosives, Paints, Oils and Grease ..	6,236,460	4,781,234	498,821	1,395,122	658,490	150,061	13,720,188
IV. Industrial Metals, Machines, Conveyances ..	68,663,695	43,309,368	11,477,682	16,548,704	5,503,136	3,013,385	148,515,970
V. Precious Metals, Jewellery and Plate ..	715,392	1,373,326	93,536	123,073	76,884	8,519	2,390,730
VI. Textiles and Textile Goods (not Dress) ..	5,065,632	7,809,906	312,110	660,241	160,353	612,499	14,620,741
VII. Skins and Leather (not Clothing or Footwear) ..	2,229,275	2,307,679	541,543	632,422	277,702	230,873	6,219,494
VIII. Clothing (except Knitted) ..	5,421,064	6,445,348	868,203	805,241	472,111	135,231	14,147,198
IX. Food, Drink and Tobacco ..	12,937,817	13,984,505	8,998,923	3,666,789	2,133,149	1,351,891	43,073,074
X. Woodworking and Basketware ..	7,070,591	5,381,288	3,583,673	1,480,434	1,529,869	1,145,273	20,191,128
XI. Furniture of Wood, Bedding, etc. ..	2,672,996	1,965,399	949,067	629,064	438,925	203,865	6,859,316
XII. Paper, Stationery, Printing, Book-binding, etc. ..	8,460,671	6,694,710	1,456,508	1,194,638	741,993	1,100,093	19,648,613
XIII. Rubber ..	2,701,024	2,194,306	246,000	215,647	46,987	38,764	5,442,728
XIV. Musical Instruments ..	352,010	77,945	12,476	18,137	5,656	..	466,224
XV. Miscellaneous Products ..	2,634,406	2,463,723	140,984	253,324	99,672	63,641	5,655,750
Total, Classes I. to XV ..	132,907,669	102,982,388	30,234,131	28,996,757	13,079,975	8,442,605	316,634,525
XVI. Heat, Light and Power ..	2,967,432	2,153,099	713,722	910,635	620,720	94,890	7,460,498
Grand Total ..	135,875,101	105,135,487	30,947,853	29,907,392	13,691,695	8,537,495	324,095,023

SALARIES AND WAGES: MALE AND FEMALE FACTORY EMPLOYEES,  
1949-50—continued.  
(£.)

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
<b>FEMALES.</b>							
I. Treatment of Non-metalliferous Mine and Quarry Products ..	64,202	50,297	14,643	12,562	7,865	3,341	152,910
II. Bricks, Pottery, Glass, etc. ..	200,748	102,679	7,707	27,410	12,367	1,230	352,141
III. Chemicals, Dyes, Explosives, Paints, Oils and Grease ..	1,194,360	798,007	68,279	147,972	40,862	7,553	2,257,033
IV. Industrial Metals, Machines, Conveyances ..	4,536,043	3,053,536	333,821	957,629	140,291	78,828	9,100,148
V. Precious Metals, Jewellery and Plate ..	119,173	167,430	6,076	5,378	2,384	194	300,635
VI. Textiles and Textile Goods (not Dress) ..	3,530,050	5,316,271	266,859	347,976	87,235	404,318	9,952,709
VII. Skins and Leather (not Clothing or Footwear) ..	561,101	345,208	48,403	68,042	28,930	5,118	1,056,802
VIII. Clothing (except Knitted) ..	9,212,188	9,654,926	1,626,899	1,237,801	786,117	147,802	22,665,733
IX. Food, Drink and Tobacco ..	3,306,120	3,049,031	805,506	669,844	323,712	321,530	8,475,743
X. Woodworking and Basketware ..	206,032	150,032	93,224	46,682	8,906	13,307	518,183
XI. Furniture of Wood, Bedding, etc. ..	408,786	216,620	69,963	80,309	27,936	11,347	814,961
XII. Paper, Stationery, Printing, Book-binding, etc. ..	1,758,931	1,165,757	335,679	214,660	107,723	96,801	3,679,551
XIII. Rubber ..	342,075	283,319	89,858	22,256	2,273	2,222	742,003
XIV. Musical Instruments ..	73,742	2,258	..	315	..	..	76,315
XV. Miscellaneous Products ..	741,739	757,329	30,714	57,986	22,024	13,433	1,623,225
Total, Classes I. to XV.	26,255,290	25,112,700	3,797,631	3,896,822	1,598,625	1,107,024	61,768,092
XVI. Heat, Light and Power ..	16,703	6,507	2,305	2,515	2,921	1,740	32,691
Total ..	26,271,993	25,119,207	3,799,936	3,899,337	1,601,546	1,108,764	61,800,783

(iv) Total and Average Earnings of Males and Females, 1938-39 and 1945-46 to 1949-50. Particulars for these years are given in the table hereunder:—

TOTAL AND AVERAGE SALARIES AND WAGES: MALES AND FEMALES.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
<b>MALES.</b>							
1938-39. Amount paid £	38,271,867	29,005,746	9,920,001	7,487,828	4,128,824	2,234,413	91,048,679
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 £	73,380,046	56,772,773	16,177,606	14,654,333	7,037,330	4,353,562	172,376,050
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
1946-47. Amount paid £	87,122,806	63,035,226	18,279,996	18,194,115	8,148,191	4,991,493	199,771,829
Proportion of total %	84.11	80.82	90.00	88.58	89.49	88.53	84.23
Average per employee £	355.02	349.29	322.54	331.31	315.15	323.62	345.18
1947-48. Amount paid £	106,027,823	76,312,216	21,058,339	22,035,219	9,629,341	6,066,411	241,731,849
Proportion of total %	84.58	81.35	89.64	88.66	89.70	88.39	84.59
Average per employee £	405.77	401.52	357.14	385.31	349.33	369.89	394.24
1948-49. Amount paid £	123,262,747	90,764,923	26,330,646	26,139,989	11,555,461	7,503,261	285,557,027
Proportion of total %	84.12	80.74	89.42	86.58	89.38	88.73	84.16
Average per employee £	455.88	457.85	405.20	442.11	390.29	425.40	446.20
1949-50. Amount paid £	135,875,101	105,135,487	30,947,853	29,907,392	13,691,695	8,537,495	324,095,023
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	487.71	433.40	465.44	492.23



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

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
<b>FEMALES.</b>							
1938-39. Amount paid	£ 6,334,630	7,020,796	967,228	681,522	444,734	245,473	15,694,383
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	99.38	93.19	103.92
1945-46. Amount paid	£ 14,267,414	13,726,441	1,834,360	2,115,235	846,284	652,949	33,442,683
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
1946-47. Amount paid	£ 16,464,751	14,958,539	2,030,545	2,344,843	956,819	646,440	37,401,937
Proportion of total	% 15.89	19.18	10.00	11.42	10.51	11.47	15.77
Average per employee	£ 190.48	196.20	167.04	169.41	153.20	173.45	188.36
1947-48. Amount paid	£ 19,318,955	17,489,972	2,504,377	2,817,779	1,106,306	796,926	44,033,415
Proportion of total	% 15.42	18.65	10.36	11.34	10.30	11.61	15.41
Average per employee	£ 215.16	222.98	191.36	199.25	173.38	202.32	213.99
1948-49. Amount paid	£ 23,272,895	21,645,518	3,115,988	3,370,218	1,372,369	953,145	53,730,133
Proportion of total	% 15.88	19.26	15.58	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	£ 26,271,993	25,119,207	3,799,936	3,899,337	1,601,546	1,108,764	61,800,783
Proportion of total	% 16.20	19.20	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

(v) *Managers, Clerical Staff and Other Employees.* A further analysis of salaries and wages paid is given in the following table for 1949-50 and shows the amounts paid to managers, clerical staff, etc., and those paid to other employees. As previously mentioned, amounts drawn by working proprietors are excluded in all cases:—

**SALARIES AND WAGES: MANAGERS, CLERICAL STAFF, ETC., AND OTHER EMPLOYEES, 1949-50.**

(£.)

Class of Industry.	Salaries and Wages Paid to—						
	Managers, Clerical Staff, Chemists, Draftsmen, etc.		All Other Employees.		All Employees.		
	Males.	Females.	Males.	Females.	Males.	Females.	Total.
I. Treatment of Non-metalliferous Mine and Quarry Products ..	893,883	119,002	6,601,867	33,908	7,495,750	152,910	7,648,660
II. Bricks, Pottery, Glass, etc. ..	655,988	125,966	7,531,633	226,175	8,187,621	352,141	8,539,762
III. Chemicals, Dyes, Explosives, Paints, Oils and Grease ..	3,045,154	680,243	10,675,034	1,576,790	13,720,188	2,257,033	15,977,221
IV. Industrial Metals, Machines, Conveyances ..	20,070,504	3,849,695	128,445,466	5,250,453	148,515,970	9,100,148	157,616,118
V. Precious Metals, Jewellery and Plate ..	233,477	82,548	2,157,253	218,087	2,390,730	300,635	2,691,365
VI. Textiles and Textile Goods (not Dress) ..	1,873,781	715,202	12,746,960	9,237,507	14,620,741	9,952,709	24,573,450
VII. Skins and Leather (not Clothing or Footwear) ..	727,596	133,289	5,491,898	923,513	6,219,494	1,056,802	7,276,296
VIII. Clothing (except Knitted) ..	2,134,959	1,026,972	12,012,239	21,638,761	14,147,198	22,665,733	36,812,931
IX. Food, Drink and Tobacco ..	6,346,616	1,529,327	36,726,458	6,946,416	43,073,074	8,475,743	51,548,817
X. Woodworking and Basketware ..	1,892,931	331,321	18,298,197	186,862	20,191,128	518,183	20,709,311
XI. Furniture of Wood, Bedding, etc. ..	589,781	177,389	6,269,535	637,572	6,859,316	814,961	7,674,277
XII. Paper, Stationery, Printing, Book-binding, etc. ..	2,804,727	920,876	16,843,886	2,758,675	19,648,613	3,679,551	23,328,164
XIII. Rubber ..	800,582	161,492	4,642,146	580,511	5,442,728	742,003	6,184,731
XIV. Musical Instruments ..	49,285	17,143	416,939	59,172	466,224	76,315	542,539
XV. Miscellaneous Products ..	940,313	285,842	4,715,437	1,337,383	5,655,750	1,623,225	7,278,975
Total, Classes I. to XV.	43,059,577	10,156,307	273,574,948	51,611,785	316,634,525	61,768,092	378,402,617
XVI. Heat, Light and Power ..	701,500	27,793	6,758,998	4,898	7,460,498	32,691	7,493,189
Grand Total	43,761,077	10,184,100	280,333,946	51,616,683	324,095,023	61,800,783	385,895,806
Average paid per employee	673.86	288.22	472.35	271.50	492.23	274.12	436.59

SALARIES AND WAGES PAID AND VALUE OF PRODUCTION. 1109

3. Power, Fuel and Light Used.—(i) *In Classes of Industry, 1949-50.* The expenditure by factories on power, fuel and light, including the value of lubricants and water, is of considerable importance; in 1949-50 it amounted to a new high level of £54,829,516, an increase of £8,767,694 as compared with the previous year and approximately three 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 in 1949-50:—

FACTORIES : VALUE OF POWER, FUEL AND LIGHT USED (a), 1949-50.  
(£.)

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia
I. Treatment of Non-metalliferous Mine and Quarry Products .. .. .	773,943	611,602	227,072	219,997	175,666	127,850	2,136,130
II. Bricks, Pottery, Glass, etc. .. .. .	1,750,926	867,807	116,508	271,164	172,966	35,657	3,215,028
III. Chemicals, Dyes, Explosives, Paints, Oils and Grease .. .. .	1,407,043	954,319	102,030	343,246	187,854	35,404	3,029,896
IV. Industrial Metals, Machines, Conveyances .. .. .	8,546,246	1,961,283	546,460	2,087,645	324,850	448,625	13,915,109
V. Precious Metals, Jewellery and Plate .. .. .	42,715	56,292	4,662	10,893	4,644	359	119,565
VI. Textiles and Textile Goods (not Dress) .. .. .	610,501	988,885	28,390	107,923	19,708	62,759	1,818,166
VII. Skins and Leather (not Clothing or Footwear) .. .. .	233,418	313,370	39,864	102,941	40,929	40,058	770,580
VIII. Clothing (except knitted) .. .. .	370,620	445,679	59,595	57,142	35,110	13,811	981,957
IX. Food, Drink and Tobacco .. .. .	2,794,341	2,580,182	1,407,716	795,011	493,269	205,530	8,276,049
X. Woodworking and Basketware .. .. .	516,082	285,955	187,967	61,595	105,891	74,113	1,231,603
XI. Furniture of Wood, Bedding, etc. .. .. .	62,970	44,282	19,612	20,952	10,725	3,814	162,355
XII. Paper, Stationery, Printing, Book-binding, etc. .. .. .	485,282	584,640	56,872	114,623	32,724	296,868	1,571,009
XIII. Rubber .. .. .	368,702	424,637	29,380	23,955	4,939	4,897	856,510
XIV. Musical Instruments .. .. .	21,744	1,902	144	239	54	..	24,083
XV. Miscellaneous Products .. .. .	176,174	168,879	11,053	22,806	4,669	1,959	385,540
Total, Classes I. to XV.	18,160,707	10,289,714	2,837,325	4,240,132	1,613,998	1,351,704	38,493,580
XVI. Heat, Light and Power .. .. .	7,374,520	3,404,522	2,282,070	1,701,908	1,570,247	2,669	16,335,936
Grand Total .. .. .	25,535,227	13,694,236	5,119,395	5,942,040	3,184,245	1,354,373	54,829,516

(a) Includes value of lubricants and water.

(ii) *Values of Items, 1949-50.* The following table shows the values of the various items of power, fuel and light used in factories in each State during the year 1949-50:—

FACTORIES : VALUE OF ITEMS OF POWER, FUEL AND LIGHT USED(a), 1949-50.  
(£.)

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Coal, Black .. .. .	8,723,158	1,724,520	2,739,796	61,725,443	965,240	264,767	616,142,924
.. Brown .. .. .	..	2,174,717	..	..	..	..	2,174,717
Brown Coal Briquettes .. .. .	..	1,155,359	..	..	..	..	1,155,359
Coke .. .. .	4,232,695	625,771	67,347	61,063,380	71,353	56,730	66,117,276
Wood .. .. .	372,302	730,486	322,669	297,791	575,143	174,491	2,472,482
Fuel Oil .. .. .	3,570,280	2,308,369	522,134	1,061,571	653,504	180,568	8,296,486
Tar (Fuel) .. .. .	285,736	166,226	1,609	55,536	18,326	11,603	539,036
Electricity .. .. .	5,622,259	3,390,331	956,424	1,270,180	598,920	572,874	12,410,988
Gas .. .. .	1,178,437	319,184	61,141	79,263	26,694	8,813	1,673,505
Other (Charcoal, etc.) .. .. .	56,650	227,041	91,168	143,073	72,171	2,042	592,145
Water .. .. .	922,150	516,331	149,916	130,153	104,593	34,966	1,818,109
Lubricating Oils .. .. .	571,560	355,901	207,191	115,677	98,241	47,519	1,396,089
Total .. .. .	25,535,227	13,694,236	5,119,395	5,942,040	3,184,245	1,354,373	54,829,516

(a) Includes value of lubricants and water. (b) Includes £408,512, the value of 246,800 tons of Leigh Creek coal. (c) Includes £13,546, the value of 16,009 tons of coke breeze.

(iii) *Quantities of Fuel used, 1949-50.* The following table shows the quantities of fuel used in factories in each State during the year 1949-50 :—

FACTORIES : QUANTITIES OF FUEL USED, 1949-50.

Particulars.	Unit.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Coal, Black ..	Ton	3,890,688	453,858	995,050 <sup>a</sup>	605,775	399,866	118,615	6,463,852
" Brown ..	"	"	5,947,923	"	"	"	"	5,947,923
Brown Coal Briquettes ..	"	"	550,627	"	"	"	"	550,627
Coke ..	"	1,436,851	161,766	23,197 <sup>b</sup>	225,813	21,786	10,450 <sup>b</sup>	1,879,863
Wood ..	"	"	570,363	266,043	193,851	473,530	145,984	1,877,333
Fuel Oil ..	Gal.	73,640,735	44,596,241	7,378,632	20,171,000	10,113,408	2,885,398	158,785,414
Tar (Fuel)..	"	18,802,494	5,269,408	67,163	1,733,265	895,456	565,150	27,332,936

(a) Includes 246,800 tons of Leigh Creek coal.

(b) Includes 16,009 tons of coke breeze.

(iv) *Total Value, 1938-39 and 1945-46 to 1949-50.* The next table shows the sums expended on power, fuel and light during the years 1945-46 to 1949-50 compared with 1938-39 :—

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

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
1938-39 ..	7,651,627	3,999,934	1,423,549	1,017,537	1,169,268	438,006	15,699,921
1945-46 ..	12,206,641	6,940,980	2,298,019	2,851,320	1,835,677	904,011	27,056,648
1946-47 ..	13,964,552	7,835,022	2,627,507	3,620,194	2,049,489	923,336	31,020,100
1947-48 ..	17,313,940	9,014,905	3,184,155	4,280,739	2,284,627	1,015,353	37,093,719
1948-49 ..	21,611,375	11,336,502	4,085,459	5,123,290	2,745,181	1,160,015	46,061,822
1949-50 ..	25,535,227	13,694,236	5,119,395	5,942,040	3,184,245	1,354,373	54,829,516

(a) Includes value of lubricants and water.

4. *Value of Materials Used.—(i) In Classes of Industry, 1949-50.* 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 1949-50 reached £929,094,287 representing 56.46 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, 1949-50.  
(£.)

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
I. Treatment of Non-metalliferous Mine and Quarry Products ..	8,487,863	4,036,954	1,341,905	1,051,224	787,393	585,664	16,291,003
II. Bricks, Pottery, Glass, etc. ..	3,546,008	1,654,458	280,970	668,712	270,563	71,484	6,492,195
III. Chemicals, Dyes, Explosives, Paints, Oils and Grease ..	35,135,577	21,994,495	2,566,133	5,053,549	4,233,220	675,262	69,658,416
IV. Industrial Metals, Machines, Conveyances ..	133,724,383	61,086,926	15,602,790	34,687,055	6,662,523	6,843,110	258,606,787
V. Precious Metals, Jewellery and Plate ..	917,025	1,928,746	50,469	74,786	51,773	2,724	3,025,523
VI. Textiles and Textile Goods (not Dress) ..	25,167,977	38,564,625	2,421,077	2,808,337	1,252,653	3,386,010	73,600,679
VII. Skins and Leather (not Clothing or Footwear) ..	10,710,632	8,414,572	1,577,305	7,075,013	1,254,457	824,228	29,856,207
VIII. Clothing (except Knitted) ..	25,583,785	26,132,110	3,593,203	2,267,905	1,639,344	237,755	59,454,102
IX. Food, Drink and Tobacco ..	81,944,271	83,260,091	68,997,360	20,055,851	13,353,734	7,499,949	275,111,256
X. Woodworking and Basketware ..	16,838,788	11,443,397	6,013,518	4,141,953	2,441,126	2,101,429	42,980,211
XI. Furniture of Wood, Bedding, etc. ..	5,994,153	4,554,488	1,971,493	1,494,250	978,745	300,633	15,293,762
XII. Paper, Stationery, Printing, Book-binding, etc. ..	19,136,569	15,132,469	2,516,597	2,057,083	1,170,228	1,621,177	41,634,123
XIII. Rubber ..	7,465,278	6,713,368	598,135	362,498	70,141	65,528	15,274,948
XIV. Musical Instruments ..	684,601	44,597	6,265	3,429	2,652	"	741,544
XV. Miscellaneous Products ..	4,921,679	5,610,173	242,770	751,059	92,248	55,451	11,673,380
Total, Classes I. to XV.	380,258,769	290,571,469	107,779,990	82,552,704	34,260,800	24,270,404	919,694,136
XVI. Heat, Light and Power ..	4,208,486	2,956,068	902,537	724,499	488,966	119,595	9,400,151
Grand Total ..	384,467,255	293,527,537	108,682,527	83,277,203	34,749,766	24,389,999	929,094,287

(ii) *Total Amount, 1938-39 and 1945-46 to 1949-50.* The following table shows the values of materials used in factories for the years 1945-46 to 1949-50 compared with 1938-39:—

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

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
1938-39 ..	120,501,795	82,971,608	42,596,049	20,308,797	9,603,657	5,321,540	281,303,446
1945-46 ..	201,706,086	159,797,941	58,633,079	37,770,050	18,360,635	12,019,637	488,287,428
1946-47 ..	245,436,182	176,106,507	62,134,914	52,015,884	20,472,010	12,978,867	569,144,364
1947-48 ..	292,556,789	209,896,100	79,173,835	61,620,640	24,956,972	15,524,694	683,729,030
1948-49 ..	336,913,961	252,741,001	97,044,670	75,227,229	29,198,424	19,422,419	810,547,704
1949-50 ..	384,467,255	293,527,537	108,682,527	83,277,203	34,749,766	24,389,999	929,094,287

5. *Value of Output.*—(i) *In Classes of Industry, 1949-50.* The value of the output of factories in the various classes in each State in 1949-50 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, 1949-50.**  
(£.)

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
<b>I. Treatment of Non-metaliferous Mine and Quarry Products ..</b>	14,889,278	8,880,775	2,643,204	2,346,242	1,775,888	1,310,587	31,845,974
<b>II. Bricks, Pottery, Glass, etc. ..</b>	12,285,629	5,661,971	1,026,818	2,209,098	1,188,746	239,086	22,611,348
<b>III. Chemicals, Dyes, Explosives, Paints, Oils and Grease ..</b>	58,733,685	35,767,755	3,759,103	8,212,289	5,861,355	1,025,130	113,359,317
<b>IV. Industrial Metals, Machines, Conveyances ..</b>	255,329,660	134,231,798	37,218,392	62,553,877	15,383,792	14,034,409	518,751,928
<b>V. Precious Metals, Jewellery and Plate ..</b>	2,310,912	4,338,537	218,827	304,025	191,259	16,786	7,380,346
<b>VI. Textiles and Textile Goods (not Dress) ..</b>	40,734,067	62,139,095	3,406,471	4,590,288	1,958,043	5,548,230	118,376,194
<b>VII. Skins and Leather (not Clothing or Footwear) ..</b>	15,731,724	13,428,697	2,629,996	8,263,762	1,916,100	1,346,830	43,317,109
<b>VIII. Clothing (except Knitted) ..</b>	49,214,793	52,057,960	7,441,613	5,164,891	3,591,734	679,313	118,150,304
<b>IX. Food, Drink and Tobacco ..</b>	119,311,712	118,201,095	89,068,387	27,949,301	19,077,009	10,769,095	384,376,599
<b>X. Woodworking and Basketware ..</b>	30,157,549	21,166,958	12,163,650	6,807,157	5,002,033	4,047,340	79,344,687
<b>XI. Furniture of Wood, Bedding, etc. ..</b>	11,276,441	8,480,366	3,677,721	2,692,301	1,797,750	649,877	28,574,456
<b>XII. Paper, Stationery, Printing, Book-binding, etc. ..</b>	38,966,225	29,666,014	5,679,571	4,668,010	2,861,114	4,372,845	86,213,779
<b>XIII. Rubber ..</b>	11,557,359	11,623,706	1,227,528	776,060	174,904	142,211	25,501,768
<b>XIV. Musical Instruments ..</b>	1,267,175	161,635	26,078	25,627	11,383	..	1,491,898
<b>XV. Miscellaneous Products ..</b>	10,827,599	10,748,272	521,647	1,327,732	277,174	173,885	23,876,309
<b>Total, Classes I. to XV.</b>	672,593,808	516,554,634	170,709,006	137,890,660	61,068,284	44,355,624	1603,172016
<b>XVI. Heat, Light and Power ..</b>	20,609,195	9,911,646	4,446,983	3,637,569	2,909,753	724,335	42,239,481
<b>Grand Total</b>	693,203,003	526,466,280	175,155,989	141,528,229	63,978,037	45,079,959	1645,411497

(ii) *Total, 1938-39 and 1945-46 to 1949-50.* The following table shows the value of output in each State during each of the years shown.

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

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
1938-39 ..	218,419,313	152,967,611	63,321,073	35,005,264	19,548,511	11,158,205	500,419,977
1945-46 ..	367,092,216	286,989,408	91,200,751	66,222,998	34,022,839	22,119,305	867,647,517
1946-47 ..	445,947,142	315,437,679	100,099,090	86,702,572	38,269,975	24,569,748	1,011,026,206
1947-48 ..	528,481,585	377,412,025	125,244,343	104,571,084	45,625,796	28,784,564	1,210,119,397
1948-49 ..	609,724,181	446,837,879	154,669,803	124,018,152	53,417,492	36,657,035	1,425,324,543
1949-50 ..	693,203,003	526,466,280	175,155,989	141,528,229	63,978,037	45,079,959	1,645,411,497

6. Value of Production.—(i) *In Classes of Industry, 1949-50.* 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 £29,103,162 for 1949-50. 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 1949-50 to £661.5 million to which Class IV., Industrial Metals, etc., with £246.2 million or almost four times the value of production of this class in 1938-39, made the greatest contribution. This total value of production in 1949-50 represented an increase of £92.8 million over the figure for 1948-49 and £458 million (225 per cent.) over the value of production recorded in 1938-39.

The following table shows the value of production in 1949-50 in each State for the various classes of industry:—

FACTORIES : VALUE OF PRODUCTION, 1949-50.  
(£.)

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
I. Treatment of Non-metalliferous Mine and Quarry Products ..	5,627,472	4,232,219	1,074,227	1,075,021	812,829	597,073	13,418,841
II. Bricks, Pottery, Glass, etc. ..	6,988,695	3,139,706	629,340	1,269,222	745,217	131,945	12,904,125
III. Chemicals, Dyes, Explosives, Paints, Oils and Grease ..	22,190,885	12,818,941	1,090,940	2,815,494	1,440,281	314,464	40,671,005
IV. Industrial Metals, Machines, Conveyances ..	113,059,031	71,183,589	21,069,142	25,779,177	8,396,419	6,742,674	246,230,032
V. Precious Metals, Jewellery and Plate ..	1,351,172	2,353,499	163,696	218,346	134,842	13,703	4,235,258
VI. Textiles and Textile Goods (not Dress) ..	14,955,589	22,585,585	957,004	1,674,028	685,682	2,099,461	42,957,349
VII. Skins and Leather (not Clothing or Footwear) ..	4,787,674	4,700,755	1,012,827	1,085,808	620,714	482,544	12,690,322
VIII. Clothing (except Knitted) ..	23,260,388	25,480,171	3,788,815	2,339,844	1,917,280	427,747	57,714,245
IX. Food, Drink and Tobacco ..	34,573,100	32,360,822	18,663,311	7,098,439	5,230,006	3,063,616	100,989,294
X. Woodworking and Basketware ..	12,802,679	9,437,606	5,962,165	2,603,609	2,455,016	1,871,798	35,132,873
XI. Furniture of Wood, Bedding, etc. ..	5,219,318	3,881,596	1,686,616	1,177,099	808,280	345,430	13,118,339
XII. Paper, Stationery, Printing, Book-binding, etc. ..	19,344,374	13,948,905	3,106,102	2,496,304	1,658,162	2,454,800	43,008,647
XIII. Rubber ..	3,723,379	4,485,701	600,013	389,607	99,824	71,786	9,370,310
XIV. Musical Instruments ..	560,830	115,136	19,669	21,959	8,677	..	726,271
XV. Miscellaneous Products ..	5,729,746	4,969,220	267,824	553,867	180,257	116,475	11,817,389
Total, Classes I. to XV.	274,174,332	215,693,451	60,091,691	51,097,824	25,193,486	18,733,516	644,984,300
XVI. Heat, Light and Power ..	9,026,189	3,551,056	1,262,376	1,211,162	850,540	602,071	16,503,394
Grand Total ..	283,200,521	219,244,507	61,354,067	52,308,986	26,044,026	19,335,587	661,487,694

(ii) *Total and Averages, 1938-39 and 1945-46 to 1949-50.* The value of production and the amount per person employed and per head of population are shown in the following table for the last five years compared with 1938-39. For Australia as a whole the value of production per head of population increased from £29.41 per head in 1938-39 to £32.18 per head in 1949-50. For value per person employed, the increase was not so pronounced (from £360 per head in 1938-39 to £721 in 1949-50) owing to the considerable increase in the numbers of persons employed in 1949-50 as compared with 1938-39.

**FACTORIES : VALUE OF PRODUCTION.**  
(£.)

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
VALUE.							
1938-39 ..	90,265,891	65,996,069	19,301,475	13,678,930	8,775,586	5,398,659	203,416,610
1945-46 ..	153,179,489	120,250,487	30,269,653	25,601,628	13,826,527	9,195,657	352,323,441
1946-47 ..	186,546,408	131,496,150	35,336,669	31,066,494	15,748,476	10,667,545	410,861,742
1947-48 ..	218,610,856	158,501,020	42,886,353	38,669,705	18,384,197	12,244,517	489,296,648
1948-49 ..	251,198,845	182,760,376	53,539,674	43,667,633	21,473,887	16,074,602	568,715,017
1949-50 ..	283,200,521	219,244,507	61,354,067	52,308,986	26,044,026	19,335,587	661,487,694

PER PERSON EMPLOYED.

1938-39 ..	395	327	357	315	378	391	360
1945-46 ..	493	469	462	495	457	478	473
1946-47 ..	544	493	494	439	406	535	510
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

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
1946-47 ..	62.95	64.46	32.21	48.50	31.67	41.90	54.83
1947-48 ..	72.71	75.60	38.54	59.28	30.43	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

7. *Value of Output and Cost of Production.*—As the total value of the output for Australia for 1949-50 was estimated at £1,645,411,497, there remained, after payment of £929,094,287 for the value of the materials used, £385,895,806 for salaries and wages, and £54,829,516 for power, fuel and light, a balance of £275,591,888 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 1949-50 :—

**FACTORIES : VALUE OF OUTPUT AND COST OF PRODUCTION, 1949-50.**

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. (£.)					
New South Wales ..	384,467,255	25,535,227	162,147,094	121,053,427	693,203,003
Victoria ..	293,527,537	13,694,236	130,254,694	88,989,813	526,466,280
Queensland ..	108,682,527	5,119,395	34,747,789	26,606,278	175,155,989
South Australia ..	83,277,203	5,942,040	33,806,729	18,502,257	141,528,229
Western Australia ..	34,749,766	3,184,245	15,293,241	10,750,785	63,978,037
Tasmania ..	24,389,999	1,354,373	9,646,259	9,689,328	45,079,959
<b>Australia ..</b>	<b>929,094,287</b>	<b>54,829,516</b>	<b>385,895,806</b>	<b>275,591,888</b>	<b>1,645,411,497</b>

(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, 1949-50—  
continued.

State.	Materials Used. (a)	Power, Fuel and Light. (b)	Salaries and Wages.	Balance (Output less Materials, Fuel and Wages.) <sup>(c)</sup>	Total Value of Output.
PROPORTION OF COSTS, ETC., TO TOTAL VALUE. (Per cent.)					
New South Wales ..	55.46	3.68	23.40	17.46	100
Victoria ..	55.75	2.60	24.75	16.90	100
Queensland ..	62.05	2.92	19.84	15.19	100
South Australia ..	58.84	4.20	23.89	13.07	100
Western Australia ..	54.32	4.98	23.90	16.80	100
Tasmania ..	54.10	3.01	21.40	21.49	100
<b>Australia ..</b>	<b>56.47</b>	<b>3.33</b>	<b>23.45</b>	<b>16.75</b>	<b>100</b>

(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 1949-50:—

FACTORIES: VALUE OF LAND, BUILDINGS, PLANT AND MACHINERY<sup>(a)</sup>, 1949-50.  
(£.)

Value of—	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
Land and buildings	110,597,506	84,123,892	20,806,450	24,316,806	11,055,002	8,649,734	259,549,390
Plant and machinery	113,864,379	92,748,475	28,903,570	24,900,949	11,456,767	13,728,161	285,602,301
<b>Total ..</b>	<b>224,461,885</b>	<b>176,872,367</b>	<b>49,710,020</b>	<b>49,217,755</b>	<b>22,511,769</b>	<b>22,377,895</b>	<b>545,151,691</b>

(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, 1938-39 and 1945-46 to 1949-50.* The following table shows for Australia as a whole the approximate value of land and buildings occupied in connexion with manufacturing industries for 1938-39 and 1945-46 to 1949-50.

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

Class of Industry.	1938-39.	1945-46.	1946-47.	1947-48.	1948-49.	1949-50.
I. Treatment of Non-metalliferous Mine and Quarry Products ..	2,778,746	3,019,524	3,376,681	3,860,244	4,331,383	4,850,741
II. Bricks, Pottery, Glass, etc.	2,953,557	3,331,450	3,771,332	3,952,449	4,245,929	4,718,877
III. Chemicals, Dyes, Explosives, Paints, Oils and Grease ..	7,377,551	18,461,520	17,064,501	18,624,006	20,253,616	22,075,717
IV. Industrial Metals, Machines, Conveyances ..	34,841,028	59,530,238	59,008,483	64,868,139	73,247,130	81,682,569
V. Precious Metals, Jewellery and Plate ..	633,009	751,611	1,041,763	1,278,655	1,514,422	1,613,825
VI. Textiles and Textile Goods (not Dress) ..	5,999,671	9,111,725	9,608,636	10,602,801	11,904,618	14,837,708
VII. Skins and Leather (not Clothing or Footwear) ..	2,095,886	2,965,986	3,228,483	3,441,318	3,777,319	4,157,863
VIII. Clothing (except Knitted) ..	10,623,619	13,993,956	15,608,247	16,916,828	18,440,386	19,763,620
IX. Food, Drink and Tobacco ..	33,273,248	40,129,049	42,610,494	45,450,787	48,075,384	52,196,677
X. Woodworking and Basketware ..	4,106,963	5,441,290	6,156,881	6,911,869	8,071,803	9,441,767
XI. Furniture of Wood, Bedding, etc. ..	2,533,254	2,828,984	3,300,578	3,834,648	4,234,789	4,827,770
XII. Paper, Stationery, Printing, Bookbinding, etc. ..	10,639,315	11,604,666	12,071,708	13,023,072	14,516,790	16,234,101
XIII. Rubber ..	1,676,043	1,865,044	1,990,884	2,152,455	2,475,764	3,038,590
XIV. Musical Instruments ..	104,838	133,182	193,402	233,601	268,405	325,218
XV. Miscellaneous Products ..	1,432,857	2,964,894	3,125,399	3,679,765	3,929,181	4,359,854
Total, Classes I. to XV. ..	121,069,585	176,133,119	182,157,472	198,830,727	219,286,919	244,124,897
XVI. Heat, Light and Power ..	9,850,829	10,806,100	10,994,312	12,312,675	13,452,942	15,424,493
Grand Total ..	130,920,414	186,939,219	193,151,784	211,143,402	232,739,861	259,549,390

(a) Includes estimated value of rented premises.

(ii) In Classes of Industry in States, 1949-50. The following table gives particulars of the various classes of industry in each State.

FACTORIES : VALUE OF LAND AND BUILDINGS(a), 1949-50.  
(£.)

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
I. Treatment of Non-metalliferous Mine and Quarry Products ..	2,335,650	1,441,475	314,778	347,565	188,234	223,039	4,850,741
II. Bricks, Pottery, Glass, etc.	2,761,288	1,193,471	191,252	306,717	215,501	50,648	4,718,877
III. Chemicals, Dyes, Explosives, Paints, Oils and Grease ..	7,931,403	6,881,726	383,428	5,722,359	971,823	184,978	22,075,717
IV. Industrial Metals, Machines, Conveyances ..	38,292,684	23,207,009	5,842,287	6,595,632	3,364,475	2,380,482	81,682,569
V. Precious Metals, Jewellery and Plate ..	560,089	795,754	64,524	102,174	77,943	13,341	1,613,825
VI. Textiles and Textile Goods (not Dress) ..	5,277,165	8,253,363	374,696	488,916	181,287	262,281	14,837,708
VII. Skins and Leather (not Clothing or Footwear) ..	1,523,099	1,607,230	206,776	468,735	150,871	201,152	4,157,863
VIII. Clothing (except Knitted) ..	9,003,129	7,501,480	1,113,551	1,126,301	849,181	169,978	19,763,620
IX. Food, Drink and Tobacco ..	19,523,542	15,183,985	7,923,947	4,607,260	3,005,680	1,952,263	52,196,677
X. Woodworking and Basketware ..	4,252,358	2,604,639	969,009	735,643	539,644	340,474	9,441,767
XI. Furniture of Wood, Bedding, etc. ..	1,779,810	1,631,346	602,901	378,608	304,136	130,969	4,827,770
XII. Paper, Stationery, Printing, Bookbinding, etc. ..	6,403,668	5,251,205	1,126,695	1,003,930	618,885	1,829,718	16,234,101
XIII. Rubber ..	1,168,411	1,434,625	191,472	129,965	62,340	51,777	3,038,590
XIV. Musical Instruments ..	243,636	58,459	6,065	11,110	5,948	..	325,218
XV. Miscellaneous Products ..	2,105,164	1,761,264	130,010	212,507	93,942	56,967	4,359,854
Total, Classes I. to XV. ..	103,161,096	80,807,031	19,441,391	22,237,422	10,629,890	7,848,067	244,124,897
XVI. Heat, Light and Power ..	7,436,410	3,316,861	1,365,959	2,079,384	425,112	801,667	15,424,493
Grand Total ..	110,597,506	84,123,892	20,806,450	24,316,806	11,055,002	8,649,734	259,549,390

(a) Includes estimated value of rented premises.



(iii) *Totals in each State.* The following table shows the value of land and buildings in each State for the years 1938-39 and 1945-46 to 1949-50 :—

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

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
1938-39 ..	57,353,625	42,026,245	12,299,089	8,710,700	6,813,653	3,717,102	130,920,414
1945-46 ..	80,308,347	60,264,953	14,331,556	18,446,966	8,282,694	5,304,703	186,939,219
1946-47 ..	81,894,595	62,771,493	15,391,033	18,659,534	8,756,924	5,678,205	193,151,784
1947-48 ..	91,860,393	67,249,391	16,668,766	20,690,827	9,482,660	6,271,365	211,143,402
1948-49 ..	101,240,784	73,383,784	18,508,165	22,217,619	10,054,598	7,334,911	232,739,861
1949-50 ..	110,597,506	84,123,892	20,806,450	24,316,806	11,055,002	8,649,734	259,549,390

(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 £259.5 million in 1949-50.

3. *Value of Plant and Machinery.*—(i) *Total for Australia, 1938-39 and 1945-46 to 1949-50.* The following table shows for Australia the approximate value of plant and machinery used in factories in 1938-39 and each of the five years ended 1949-50 :—

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

Class of Industry.	1938-39.	1945-46.	1946-47.	1947-48.	1948-49.	1949-50.
<b>I. Treatment of Non-metallic Mineral Products</b>						
II. Bricks, Pottery, Glass, etc.	7,028,382	4,916,338	5,129,881	6,060,951	7,341,753	8,055,137
III. Chemicals, Dyes, Explosives, Paints, Oils and Grease	3,144,586	2,967,696	3,423,142	3,999,837	4,332,836	4,999,571
IV. Industrial Metals, Machines, Conveyances	6,754,248	17,791,778	15,271,732	17,515,884	19,254,924	23,518,160
V. Precious Metals, Jewellery and Plate	33,037,801	53,901,719	52,895,953	61,079,926	70,154,863	77,596,963
VI. Textiles and Textile Goods (not Dress)	197,959	253,062	375,783	580,634	721,509	770,542
VII. Skins and Leather (not Clothing or Footwear)	6,657,416	7,736,737	8,370,807	10,200,808	12,797,123	17,484,824
VIII. Clothing (except Knitted)	973,181	1,584,051	1,707,214	1,864,360	2,062,810	2,535,421
IX. Food, Drink and Tobacco	2,557,388	4,134,906	4,862,517	5,905,080	6,923,613	7,791,840
X. Woodworking and Basketware	32,100,675	33,233,935	35,133,478	37,999,396	42,795,618	48,317,299
XI. Furniture of Wood, Bedding, etc.	3,907,551	5,023,174	5,862,676	6,990,790	8,481,351	10,376,627
XII. Paper, Stationery, Printing, Bookbinding, etc.	727,857	740,627	929,587	1,189,427	1,426,914	1,679,010
XIII. Rubber	9,188,227	8,556,477	9,800,832	11,517,261	15,026,711	19,192,982
XIV. Musical Instruments	1,367,859	1,218,861	1,416,650	1,855,042	2,243,634	2,753,822
XV. Miscellaneous Products	11,702	23,571	65,738	80,304	134,080	154,348
	758,273	1,855,931	1,847,270	2,356,419	2,806,582	3,275,453
<b>Total, Classes I. to XV.</b>	108,412,205	143,938,863	147,393,260	168,896,128	196,504,321	228,493,004
<b>XVI. Heat, Light and Power</b>	35,249,922	41,606,077	42,299,831	44,823,210	49,989,886	57,109,297
<b>Grand Total</b>	143,662,127	185,544,940	189,693,091	213,719,338	246,494,207	285,602,301

(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 1949-50 of £39.1 million over 1948-49 extended over all industrial classes. The greatest increase occurred in Class XVI., Heat, Light and Power.

(ii) *Totals in each State.* The following table shows the value of plant and machinery in each State during the years 1945-46 to 1949-50 compared with 1938-39. During 1949-50 increases occurred in all States, Victoria showing the largest increase, £16.7 million.

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

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
1938-39 ..	62,692,956	38,626,743	18,095,415	9,749,679	8,095,064	6,402,270	143,662,127
1945-46 ..	72,560,630	58,537,394	18,690,341	19,017,955	8,507,705	8,230,715	185,344,940
1946-47 ..	75,234,273	59,124,802	19,995,249	18,408,224	8,430,574	8,499,969	189,693,091
1947-48 ..	86,714,082	65,829,201	21,830,685	20,239,623	9,189,910	9,915,837	213,719,338
1948-49 ..	99,812,061	76,079,598	25,756,957	22,791,991	9,800,130	12,253,470	246,494,207
1949-50 ..	113,864,379	92,748,475	28,903,570	24,900,949	11,456,767	13,728,161	285,602,301

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

(iii) Value according to Class of Industry, 1949-50. The following table shows the value of plant and machinery used in factories in each State during 1949-50 according to class of industry.

FACTORIES : VALUE OF PLANT AND MACHINERY(a), 1949-50.  
(£.)

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
I. Treatment of Non-metalliferous Mine and Quarry Products ..	4,234,130	1,958,805	481,978	894,148	248,510	237,566	8,055,137
II. Bricks, Pottery, Glass, etc. ..	2,930,622	1,152,315	229,516	323,751	277,207	77,160	4,990,571
III. Chemicals, Dyes, Explosives, Paints, Oils and Grease ..	9,795,170	8,747,333	363,505	2,980,232	1,250,998	380,922	23,518,160
IV. Industrial Metals, Machines, Conveyances ..	38,151,982	22,354,239	4,668,838	7,785,730	2,459,247	2,176,927	77,596,963
V. Precious Metals, Jewellery and Plate ..	230,593	446,439	24,015	38,721	24,386	6,388	770,542
VI. Textiles and Textile Goods (not Dress) ..	7,015,948	8,980,091	533,684	424,017	143,042	388,042	17,484,824
VII. Skins and Leather (not Clothing or Footwear) ..	933,323	895,548	205,351	258,888	131,407	110,904	2,535,421
VIII. Clothing (except Knitted) ..	3,267,978	3,201,956	493,059	424,288	324,545	80,014	7,791,840
IX. Food, Drink and Tobacco ..	14,330,321	12,727,298	13,577,881	3,733,795	2,592,213	1,355,791	48,317,299
X. Woodworking and Basketware ..	4,026,099	2,569,421	1,680,104	477,051	916,721	707,231	10,376,627
XI. Furniture of Wood, Bedding, etc. ..	639,657	456,196	226,885	171,752	137,394	47,126	1,679,010
XII. Paper, Stationery, Printing, Book-binding, etc. ..	6,410,035	6,386,713	1,182,494	1,031,142	499,768	3,682,830	19,192,982
XIII. Rubber ..	1,050,164	1,359,850	139,458	150,048	32,863	21,439	2,753,822
XIV. Musical Instruments ..	132,378	19,072	1,347	1,019	532	..	154,348
XV. Miscellaneous Products ..	1,517,916	1,485,663	70,089	141,453	39,006	21,331	3,275,458
Total, Classes I. to XV.	94,666,316	72,740,939	23,878,204	18,836,035	9,077,839	9,293,671	228,493,004
XVI. Heat, Light and Power ..	19,198,063	20,007,536	5,025,366	6,064,914	2,378,928	4,434,490	57,109,297
Grand Total ..	113,864,379	92,748,475	28,903,570	24,900,949	11,456,767	13,728,161	285,602,301

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

4. Depreciation of Land and Buildings and Plant and Machinery.—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 during the year 1949-50 as recorded by factory proprietors at the annual census of factory production.

**ALLOWANCE FOR DEPRECIATION OF LAND AND BUILDINGS AND PLANT  
AND MACHINERY, 1949-50.**

( £. )

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
I. Treatment of Non-metaliferous Mine and Quarry Products ..	630,868	216,273	92,707	70,270	27,214	54,776	1,092,108
II. Bricks, Pottery, Glass, etc. ..	527,785	169,677	29,248	56,688	41,446	10,353	835,197
III. Chemicals, Dyes, Explosives, Paints, Oils and Grease ..	979,292	623,108	60,117	197,355	142,159	63,945	2,065,976
IV. Industrial Metals, Machines, Conveyances ..	4,276,069	2,366,512	528,557	1,069,351	261,867	487,141	8,989,497
V. Precious Metals, Jewellery and Plate ..	32,628	66,047	2,017	3,367	1,459	221	105,739
VI. Textiles and Textile Goods (not Dress) ..	765,630	1,367,188	44,683	135,327	28,034	57,898	2,398,760
VII. Skins and Leather (not Clothing or Footwear) ..	116,323	140,086	30,683	41,811	16,849	57,482	403,234
VIII. Clothing (except Knitted) ..	480,362	387,059	59,000	54,154	42,955	11,609	1,035,139
IX. Food, Drink and Tobacco ..	1,687,683	1,594,788	1,220,117	486,423	269,500	169,953	5,428,464
X. Woodworking and Basketware ..	472,911	333,282	226,253	90,217	100,416	65,152	1,288,231
XI. Furniture of Wood, Bedding, etc. ..	88,815	71,226	29,016	32,000	15,455	6,299	242,811
XII. Paper, Stationery, Printing, Book-binding, etc. ..	846,599	719,005	162,175	126,274	73,568	286,937	2,214,558
XIII. Rubber ..	275,512	304,141	22,879	25,696	7,438	5,301	640,967
XIV. Musical Instruments ..	11,163	3,131	123	..	110	..	14,527
XV. Miscellaneous Products ..	215,603	216,578	5,793	20,848	5,785	6,617	471,224
Total, Classes I. to XV.	11,407,243	8,578,101	2,513,368	2,409,781	1,034,255	1,283,684	27,226,432
XVI. Heat, Light and Power ..	742,522	170,951	283,111	401,646	165,907	112,593	1,876,730
Grand Total ..	12,149,765	8,749,052	2,796,479	2,811,427	1,200,162	1,396,277	29,103,162

In the following table particulars are given of the recorded values of land and buildings and plant and machinery in use by factories in Australia as at 30th June of the years 1939 and 1946 to 1950 and the value of additions and replacements made and depreciation allowed during each year.

**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
1946-47 ..	193,152	189,693	7,791	27,110	2,747	15,978
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

(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, 1948 to 1950. 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.	1947-48.	1948-49.	1949-50.
Acid—				
Nitric .. .. .	Ton	3,459	3,292	6,361
Sulphuric .. .. .	"	484,881	585,298	612,245
Aerated Waters .. .. .	Gal.	41,067,958	44,339,018	50,190,215
Asbestos Cement Building Sheets	Sq. yd.	18,419,227	18,558,685	18,344,694
Bacon and Ham .. .. .	lb.	100,848,161	92,491,310	89,946,189
Bags—				
Leather, Fibre, etc.—				
Handbags—				
Leather .. .. .	No.	1,093,820	1,070,849	1,060,057
Plastic .. .. .	"	148,770	344,218	502,666
Other .. .. .	"	52,148	59,104	88,462
Kitbags .. .. .	"	87,706	94,976	109,245
School bags .. .. .	"	(a)	73,328	107,222
Suit Cases .. .. .	"	728,269	661,592	683,682
Trunks .. .. .	"	27,156	30,562	4,690
All other .. .. .	"	310,008	457,164	611,749
Textile, Hessian, etc. .. .. .	"	1,810,934	1,597,732	1,594,822
Baking Powder .. .. .	lb.	1,096,029	1,004,984	929,326
Bath Heaters—				
Electric .. .. .	No.	13,192	12,803	13,297
Gas .. .. .	"	41,509	32,954	28,285
Solid Fuel and Oil .. .. .	"	60,023	56,084	70,007
Bathing Suits .. .. .	Doz.	109,048	106,710	97,731
Baths, all types .. .. .	No.	81,970	158,025	172,197
Batteries, Wet Cell type .. .. .	"	841,283	872,224	1,113,875
Beer (excluding Waste Beer) .. .. .	Gal.	125,158,216	144,451,536	154,188,627
Biscuits .. .. .	lb.	96,676,891	107,087,815	117,877,981
Blankets .. .. .	Pair	721,089	689,154	895,586
Boots, Shoes and Slippers—				
Boots .. .. .	"	1,763,035	1,827,995	1,813,053
Shoes .. .. .	"	14,445,722	13,618,046	13,596,519
Sandals .. .. .	"	1,501,791	1,772,765	1,789,141
Slippers .. .. .	"	9,295,624	8,832,214	8,605,062
Bran .. .. .	Ton (2,000 lb.)	308,214	318,705	273,336
Brassieres .. .. .	Doz.	207,051	264,808	318,897
Bricks, Clay .. .. .	'000	577,866	617,391	604,066
Brooms .. .. .	Gross	26,928	17,368	19,079
Brushes .. .. .	"	128,979	124,733	126,565
Butter .. .. .	lb.	352,995,132	360,841,293	376,486,027
Candles .. .. .	Cwt.	11,298	15,692	21,245
Cardigans, Sweaters, etc. .. .. .	Doz.	515,071	568,876	598,134
Cement, Portland .. .. .	Ton	1,012,911	1,031,489	1,167,189
Cheese .. .. .	lb.	92,827,966	96,677,553	100,300,369
Cigarettes .. .. .	"	10,147,354	9,701,936	10,341,485
Cleansing and Scouring Powders .. .. .	Cwt.	79,355	73,062	62,380
Cloth—				
Cotton .. .. .	Sq. yd.	23,687,667	24,669,791	33,186,695
Woolen .. .. .	"	40,967,011	40,429,799	36,948,143
Coke .. .. .	Ton	2,554,783	2,331,555	2,277,755
Colours—				
Dry .. .. .	lb.	8,396,754	6,065,177	6,510,560
Ground in Oil .. .. .	"	802,087	1,112,510	2,335,984
Confectionery—				
Chocolate .. .. .	"	64,004,412	67,847,888	78,741,717
Other .. .. .	"	70,670,259	68,924,928	70,743,632
Coppers—				
Electric .. .. .	No.	689	24,517	29,995
Gas .. .. .	"	3,586	29,980	35,548
Solid Fuel and Oil .. .. .	"	3,586	78,284	110,670
Cordials .. .. .	Gal.	4,295,319	4,312,573	4,523,455
Corsets and Corsetsets .. .. .	Doz.	(a)	133,996	105,092

(a) Not available.

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

Article.	Unit of Quantity.	1947-48.	1948-49.	1949-50.
<b>Cosmetic Creams and Lotions—</b>				
Face Cream .. .. .	Cwt.	5,704	5,010	4,136
Hand Lotion .. .. .	"	2,176	2,326	2,251
Other .. .. .	"	5,184	5,270	6,767
Custard Powder .. .. .	lb.	6,131,328	8,557,120	7,134,931
Cycles .. .. .	No.	105,435	91,514	96,282
<b>Dynamos—</b>				
Alternators .. .. .	"	203	135	273
Generators .. .. .	"	4,130	9,058	9,461
Electricity .. .. .	'000 k.w.h.	8,359,874	9,052,943	9,508,661
Enamels .. .. .	Gal.	622,233	727,953	713,643
<b>Engines—</b>				
Diesel, other than Marine .. .. .	No.	4,119	4,425	4,598
Petrol, Marine .. .. .	"	3,358	3,081	2,487
Other (a) .. .. .	"	14,871	21,622	23,382
<b>Essences, Flavouring—</b>				
Domestic .. .. .	Gal.	79,813	84,002	102,443
Industrial .. .. .	"	130,603	144,605	179,802
Face Powder .. .. .	Cwt.	2,938	2,741	2,723
Fans, Electric .. .. .	No.	59,504	59,934	48,338
<b>Fats, Edible—</b>				
Dripping .. .. .	lb.	25,077,646	24,530,463	34,543,376
Other .. .. .	"	30,354,676	43,482,176	45,379,554
Fibrous Plaster Sheets .. .. .	Sq. yd.	11,719,284	13,233,710	13,258,359
Firewood .. .. .	Ton	399,451	364,162	310,575
Fish, Tinned .. .. .	lb.	9,731,702	10,886,254	7,078,716
<b>Floorboards—</b>				
Australian Timber .. .. .	Super. ft.	65,340,333	70,537,918	71,583,812
Imported Timber .. .. .	"	6,079,242	8,780,898	11,561,728
Flour, Wheaten .. .. .	Ton (2,000 lb.)	1,598,143	1,679,190	1,509,023
Flour, Self-raising .. .. .	Cwt.	1,000,916	1,160,981	1,113,203
Fruit Juices .. .. .	Gal.	1,365,267	1,738,759	1,573,689
Gas .. .. .	'000 cubic ft.	36,549,723	36,733,420	34,897,963
<b>Gloves—</b>				
<b>Dress—</b>				
Leather .. .. .	Doz. pairs	49,850	42,199	35,684
Other .. .. .	"	36,986	24,022	35,754
Work, All types .. .. .	"	157,992	157,230	171,611
Golf Clubs .. .. .	Doz.	15,515	16,509	15,378
<b>Handkerchiefs—</b>				
Men's .. .. .	"	671,232	877,873	818,475
Women's .. .. .	"	1,047,780	922,241	827,118
Hats and Caps .. .. .	"	668,463	574,317	480,799
Hose, Rubber .. .. .	Lin. ft.	17,037,706	18,323,156	17,499,278
Ice .. .. .	Ton	1,007,301	1,039,379	1,001,862
Ice Cream .. .. .	Gal.	12,858,635	14,524,424	15,785,720
<b>Iron and Steel—</b>				
Pig Iron .. .. .	Ton	1,235,574	1,044,957	1,097,635
Ingot Steel .. .. .	"	1,344,692	1,178,010	1,217,971
Blooms and Billets .. .. .	"	1,221,938	1,101,063	1,103,784
Irons, Electric .. .. .	No.	253,065	208,999	178,283
<b>Jams and Preserves—</b>				
Jams .. .. .	lb.	198,453,763	132,951,471	134,577,101
Fruit, Preserved(b) .. .. .	"	189,050,391	187,144,716	208,334,621
Vegetables, Preserved .. .. .	"	46,330,688	51,353,520	70,583,399
Jelly Crystals .. .. .	"	10,083,600	11,413,654	14,001,557
Kalsomine .. .. .	"	8,118,425	8,645,431	9,334,148
Lacquer, Clear and Colours .. .. .	Gal.	881,319	829,971	935,000
Lard .. .. .	lb.	5,739,716	5,837,557	5,465,917
<b>Lawn Mowers—</b>				
Electric .. .. .	No.	639	8,935	23,461
Petrol .. .. .	"	273	594	1,070
Hand .. .. .	"	64,544	64,557	88,425
<b>Leather—</b>				
Sole and Belting .. .. .	lb.	37,679,761	38,715,918	38,650,009
Harness, Skirt, etc. .. .. .	"	2,349,825	1,956,118	1,965,573
Upholstery .. .. .	Sq. ft.	8,938,966	9,672,055	10,318,195
Dressed from Hides .. .. .	"	40,447,070	40,442,555	43,110,159
Dressed from Skins .. .. .	"	35,878,572	31,997,234	29,310,671
Lime .. .. .	Ton	160,045	172,141	184,787
Linseed Oil .. .. .	Gal.	927,896	3,487,562	3,657,973
Lubricating Oil .. .. .	"	5,979,943	5,825,476	9,704,779
Malt .. .. .	Bus.	5,050,022	5,150,137	5,612,411
<b>Margarine—</b>				
Table .. .. .	lb.	10,752,175	19,103,952	14,044,246
Other .. .. .	"	41,888,602	46,566,385	54,261,395
Mattresses .. .. .	No.	689,799	782,231	928,182
Meat, Tinned .. .. .	lb.	122,080,234	114,161,624	126,263,815

(a) Excludes Motor Car, Motor Cycle, Tractor and Aero Engines.

(b) Includes Canned Apple, all types.

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

Article.	Unit of Quantity.	1947-48.	1948-49.	1949-50.
<b>Milk—</b>				
Condensed .. .. .	lb.	102,133,162	107,011,808	111,476,645
Concentrated (Whole) .. .. .	"	30,113,950	29,517,306	38,684,962
Powdered (Whole) .. .. .	"	45,681,635	57,981,479	71,273,882
Mops .. .. .	Gross	8,224	11,150	12,968
Motor Bodies .. .. .	No.	58,354	68,230	67,346
Motor Spirit (Including Benzol) .. .. .	Gal.	55,530,523	71,137,699	81,328,515
Motors, Electric .. .. .	No.	(a)	300,854	368,878
Nails .. .. .	Ton	20,324	19,442	17,808
Neckties .. .. .	Doz.	514,618	486,659	430,758
Oatmeal .. .. .	Cwt.	679,217	460,314	432,667
<b>Paint—</b>				
Water .. .. .	lb.	10,335,684	11,017,659	16,209,221
Oil .. .. .	Gal.	3,495,472	3,695,583	3,960,418
Peanut Butter .. .. .	lb.	3,231,477	3,864,462	3,737,370
Perambulators .. .. .	No.	121,556	106,711	107,420
Pickles .. .. .	Pint	8,774,899	8,464,087	9,427,463
Plywood, $\frac{1}{2}$ inch .. .. .	Sq. ft.	139,077,009	146,284,627	157,033,067
Pollard .. .. .	Ton (2,000 lb.)	326,189	354,957	316,795
<b>Pyjamas—</b>				
Men's .. .. .	Doz.	159,204	219,072	212,606
And Nightdresses, Women's .. .. .	"	180,558	270,214	275,617
<b>Refrigerators—</b>				
Commercial .. .. .	No.	4,797	4,086	5,016
Domestic .. .. .	"	112,349	146,074	150,878
Rice (Dressed) .. .. .	Cwt.	668,294	672,498	707,652
Ropes and Cables .. .. .	"	125,699	117,215	117,804
Sauce .. .. .	Pint	30,727,855	32,301,074	32,299,843
Sausage Casings .. .. .	Cwt.	75,948	83,786	94,057
Semolina .. .. .	"	166,952	248,984	275,013
Shirts .. .. .	Doz.	800,388	880,045	904,787
Sink Heaters .. .. .	No.	(a)	18,556	22,434
<b>Soap—</b>				
Household .. .. .	Cwt.	599,144	651,031	599,422
Flakes and Chips .. .. .	"	48,698	59,484	52,562
Industrial .. .. .	"	58,431	99,235	79,927
Sand .. .. .	"	63,293	51,088	44,981
Toilet .. .. .	"	269,526	274,259	267,793
Soft .. .. .	"	23,458	20,199	19,561
Liquid .. .. .	"	81,828	88,274	84,503
Shampoo .. .. .	"	6,396	8,831	9,173
Soap Extracts and Powders .. .. .	"	529,971	609,631	697,848
<b>Socks and Stockings—</b>				
Men's .. .. .	Doz. pr.	1,264,373	1,275,403	1,158,630
Women's .. .. .	"	1,567,448	1,536,549	1,708,647
Children's .. .. .	"	717,724	705,059	656,936
Soup (Tinned) .. .. .	Pint	21,102,041	42,032,297	32,611,448
Spades and Shovels .. .. .	Doz.	33,854	31,472	33,394
<b>Starch—</b>				
Edible .. .. .	Cwt.	113,640	159,391	279,350
Inedible .. .. .	"	101,302	81,769	87,752
Steel, Structural, Fabricated .. .. .	Ton	86,043	77,942	74,909
<b>Stoves, Ovens and Ranges—</b>				
<b>Domestic Cooking—</b>				
Solid Fuel .. .. .	No.	53,257	61,434	61,857
Gas .. .. .	"	39,706	49,556	46,709
Electric .. .. .	"	98,584	101,230	103,042
<b>Sugar—</b>				
Raw .. .. .	Ton	605,254	943,052	937,119
Refined .. .. .	"	435,584	428,269	422,675
Sulphate of Ammonia .. .. .	"	39,489	53,247	48,730
Superphosphate .. .. .	"	1,186,062	1,423,137	1,483,458
Talcum Powder .. .. .	Cwt.	24,178	23,015	25,112
<b>Tallow—</b>				
Raw .. .. .	"	655,043	710,532	742,425
Refined .. .. .	"	296,967	320,064	418,858
Tennis Racquet Frames .. .. .	Doz.	30,788	23,677	19,950
<b>Tiles, Roofing—</b>				
Cement .. .. .	'000	20,280	28,294	40,638
Terra Cotta .. .. .	"	41,790	44,162	45,415
<b>Timber—</b>				
From Native Logs—				
Hardwood .. .. .	'000 super. ft.	844,493	907,704	965,142
Softwood .. .. .	"	272,820	276,384	257,918
From Imported Logs—				
Hardwood .. .. .	"	2,167	1,028	1,820
Softwood .. .. .	"	5,448	10,362	18,629
Toasters, Electric .. .. .	No.	140,715	148,273	178,054

(a) Not available

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

Article.	Unit of Quantity	1947-48.	1948-49.	1949-50.
Tobacco .. .. .	lb.	19,715,123	19,255,654	20,167,710
Tomato Juice .. .. .	Gal.	1,952,310	1,845,620	741,995
Towels .. .. .	Doz.	367,440	389,218	418,283
Transformers and Converters—				
Above 20 k.v.a. .. .. .	No.	1,701	1,940	2,560
Below 20 k.v.a. .. .. .		345,909	252,359	226,984
Twine (all types) .. .. .	Cwt.	184,524	82,190	83,186
Tyres—				
Motor Car and Motor Cycle .. .. .	No.	1,190,453	1,133,893	1,339,072
Truck and Omnibus .. .. .	"	469,975	511,766	535,262
All Other .. .. .	"	1,506,745	1,144,346	1,022,204
Umbrellas .. .. .		173,824	206,399	262,655
Underwear .. .. .	Doz.	3,056,152	3,168,274	3,528,415
Vacuum Cleaners .. .. .	No.	85,779	65,721	70,604
Varnishes .. .. .	Gal.	2,631,356	2,919,865	3,266,364
Washing Machines, Household, Electric .. .. .	No.	15,217	6,528	31,638
Weatherboards—				
Australian Timber .. .. .	Super. ft.	16,696,443	17,896,553	21,116,400
Imported Timber .. .. .	"	2,121,787	2,478,729	2,847,158
Wheatmeal .. .. .	Ton	44,870	84,889	96,234
Wheelbarrows (Metal) .. .. .	No.	45,808	51,212	71,603
Wire and Wire Netting .. .. .	Ton	111,028	107,816	123,984
Wireless—				
Cabinets—				
Wood .. .. .	No.	113,992	81,922	75,895
Other .. .. .	"	28,749	30,699	204,999
Receiving Sets .. .. .	"	335,208	294,119	343,323
Wool Scoured—				
For Sale .. .. .	lb.	47,064,737	42,751,608	50,558,731
For use in own works .. .. .	"	47,877,113	41,037,636	40,442,714
On Commission .. .. .	"	82,238,081	75,328,083	80,778,589
Yarn—				
Cotton .. .. .	"	27,470,608	27,094,903	27,313,346
Woolen .. .. .	"	23,322,125	22,391,378	23,622,103
Worsted .. .. .	"	28,227,700	28,291,678	25,828,086
Zinc Oxide .. .. .	Cwt.	251,935	254,797	239,462
Zinc Oxide Paste .. .. .	"	21,480	19,930	19,101

## § 11. Individual Industries.

1. **General.**—Particulars in pages 1089-1118, §§ 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.

Details of some of the principal articles produced in factories in Australia during the years 1947-48 to 1949-50 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 1949-50 in the following table.

**PORTLAND CEMENT, ASBESTOS CEMENT SHEETS ETC., AND OTHER CEMENT GOODS : AUSTRALIA, 1949-50.**

Items.	Portland Cement.	Asbestos Cement Sheets and Mouldings.	Other Cement Goods.	Total.
Number of factories .. ..	11	14	425	450
Number of persons employed .. ..	2,152	1,946	3,935	8,033
Value of land and buildings .. ..	£ 932,060	378,548	972,134	2,282,742
Value of plant and machinery .. ..	£ 2,415,503	362,199	1,192,198	3,969,900
Salaries and wages paid .. ..	£ 1,048,476	970,182	1,654,028	3,672,686
Value of power, fuel, etc., used .. ..	£ 1,322,734	56,258	64,893	1,443,885
Value of materials used .. ..	£ 1,949,178	1,919,643	2,802,345	6,671,166
Total value of output .. ..	£ 5,421,613	3,465,498	5,767,721	14,654,832
Value of production .. ..	£ 2,149,701	1,489,597	2,900,483	6,539,781

The principal articles produced in factories included in the foregoing table during 1949-50 were :—Portland cement 1,167,189 tons, valued at £5,400,048 ; Asbestos cement building sheets 18,344,694 square yards, £2,380,216 ; cement roofing tiles 39,082,000, £1,047,867 ; cement bricks and blocks £434,187 ; concrete pipes £1,549,756 ; ready-mixed concrete 296,361 cubic yards, £927,699.

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 1949-50. 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), 1949-50.**

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories .. ..	101	66	17	7	7	1	199
Number of persons employed .. ..	3,529	4,517	(a)	1,242	(a)	(a)	9,749
Value of land and buildings .. ..	£ 1,779,755	3,920,886	(a)	4,828,712	(a)	(a)	10,695,857
Value of plant and machinery .. ..	£ 2,597,950	4,890,763	(a)	1,863,026	(a)	(a)	9,707,749
Salaries and wages paid .. ..	£ 1,860,671	2,233,047	(a)	601,973	(a)	(a)	4,889,942
Value of power, fuel, etc., used .. ..	£ 445,264	336,737	(a)	215,997	(a)	(a)	1,063,924
Value of materials used .. ..	£ 5,671,514	4,152,578	(a)	348,199	(a)	(a)	10,521,896
Total value of output .. ..	£ 10,340,903	8,098,980	(a)	1,423,077	(a)	(a)	20,660,937
Value of production .. ..	£ 4,224,125	3,609,665	(a)	858,881	(a)	(a)	9,075,117

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



## PHARMACEUTICAL AND TOILET PREPARATIONS, 1949-50.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories ..	130	49	5	11	7	3	205
Number of persons employed ..	2,974	1,454	87	(a)	(a)	(a)	5,157
Value of land and buildings £	1,040,303	469,583	18,542	(a)	(a)	(a)	1,705,906
Value of plant and machinery £	373,283	309,519	4,636	(a)	(a)	(a)	767,208
Salaries and wages paid £	1,052,811	546,407	29,267	(a)	(a)	(a)	1,839,900
Value of power, fuel, etc., used £	30,036	23,555	1,078	(a)	(a)	(a)	72,690
Value of materials used £	3,383,631	2,239,114	85,506	(a)	(a)	(a)	6,370,831
Total value of output £	7,917,226	3,965,171	128,758	(a)	(a)	(a)	13,009,957
Value of production ..	£ 4,503,559	1,702,502	42,174	(a)	(a)	(a)	6,566,436

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

4. White Lead, Paint and Varnish.—(i) *Details for each State.* The following table shows particulars of this industry for each State during 1949-50:—

## WHITE LEAD, PAINT AND VARNISH FACTORIES, 1949-50.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories ..	64	51	12	14	7	1	149
Number of persons employed ..	2,836	1,027	200	400	(a)	(a)	4,526
Value of land and buildings £	1,091,049	627,594	62,555	211,579	(a)	(a)	2,037,916
Value of plant and machinery £	674,495	450,985	46,335	150,810	(a)	(a)	1,344,632
Salaries and wages paid £	1,320,230	483,524	32,146	175,812	(a)	(a)	2,096,891
Value of power, fuel, etc., used £	126,269	30,946	2,691	9,525	(a)	(a)	170,815
Value of materials used £	6,201,736	2,792,853	565,668	1,152,394	(a)	(a)	10,902,742
Total value of output £	9,402,723	4,181,111	752,416	1,748,670	(a)	(a)	16,369,535
Value of production ..	£ 3,074,718	1,357,312	184,117	586,751	(a)	(a)	5,295,978

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

(ii) *Total for Australia.* The next table shows particulars for the years 1945-46 to 1949-50 compared with 1938-39:—

## WHITE LEAD, PAINT AND VARNISH FACTORIES: AUSTRALIA.

Items.	1938-39.	1945-46.	1946-47.	1947-48.	1948-49.	1949-50.
Number of factories ..	102	122	133	143	152	149
Number of persons employed ..	2,271	3,197	3,612	3,980	4,240	4,526
Value of land and buildings £	761,345	973,166	1,064,876	1,474,227	1,594,771	2,037,916
Value of plant and machinery £	324,222	524,065	602,967	882,794	989,143	1,344,632
Salaries and wages paid £	535,014	1,005,121	1,243,482	1,565,684	1,797,275	2,096,891
Value of power, fuel, etc., used £	44,992	80,675	94,115	109,255	127,297	170,815
Value of materials used £	2,275,027	4,775,075	5,950,115	8,155,447	9,048,001	10,902,742
Total value of output £	3,905,104	7,304,167	9,233,244	12,240,763	13,550,950	16,369,535
Value of production £	1,585,085	2,448,417	3,189,014	3,976,461	4,375,652	5,295,978

5. Soap and Candle Factories.—(i) *Details for each State.* The following table shows particulars of factories in the soap and candle industry in each State for 1949-50:—

## SOAP AND CANDLE FACTORIES, 1949-50.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories ..	47	19	10	6	4	4	90
Number of persons employed ..	2,227	773	353	193	82	16	3,646
Value of land and buildings £	572,751	332,393	59,728	91,601	38,645	20,087	1,115,205
Value of plant and machinery £	500,343	540,615	43,242	89,346	24,558	3,234	1,201,338
Salaries and wages paid £	972,888	382,592	136,937	80,035	26,499	5,886	1,604,837
Value of power, fuel, etc., used £	108,297	154,636	81,178	9,738	3,155	668	284,662
Value of materials used £	3,243,567	1,609,856	271,230	217,051	135,834	21,284	5,498,822
Total value of output £	6,240,160	2,927,433	492,093	319,762	207,043	39,146	10,225,657
Value of production ..	£ 2,888,296	1,162,961	212,685	92,973	68,034	17,204	4,442,173

(ii) *Total for Australia.* The next table shows similar particulars for the years 1945-46 to 1949-50 compared with 1938-39 :—

SOAP AND CANDLE FACTORIES : AUSTRALIA.

Items.	1938-39.	1945-46.	1946-47.	1947-48.	1948-49.	1949-50.
Number of factories ..	65	73	70	88	91	90
Number of persons employed ..	2,620	3,020	3,181	3,204	3,578	3,646
Value of land and buildings £	665,546	676,405	705,060	709,054	715,160	1,115,205
Value of plant and machinery £	576,732	374,940	376,810	398,057	517,916	1,201,338
Salaries and wages paid £	501,174	860,354	946,193	1,123,933	1,461,066	1,604,837
Value of power, fuel, etc., used £	76,283	123,250	127,517	172,844	258,505	284,662
Value of materials used £	1,567,999	3,051,046	3,062,673	4,295,165	5,277,026	5,498,822
Total value of output £	3,529,723	5,801,953	5,904,437	7,402,849	9,351,668	10,225,657
Value of production ..	£ 1,885,441	2,627,657	2,714,247	2,934,840	3,816,137	4,444,173

(iii) *Materials Used and Production.* The following statement shows the quantities of certain materials used and the production in soap and candle factories in Australia for the years 1945-46 to 1949-50 compared with 1938-39 :—

SOAP AND CANDLE FACTORIES : MATERIALS USED AND PRODUCTION, AUSTRALIA.

Particulars.	1938-39.	1945-46.	1946-47.	1947-48.	1948-49.	1949-50.
Tallow used .. cwt.	535,511	834,057	768,939	893,822	972,474	994,011
Alkali used ..	229,881	160,304	153,036	156,042	177,162	170,470
Coconut oil used—refined and unrefined .. cwt.	138,954	86,376	57,191	80,518	87,751	78,261
Soap(a) ..	978,113	1,065,439	1,046,826	1,150,774	1,149,868	1,174,605
Soap Extracts and Powders ..	191,232	469,865	432,051	529,971	609,631	697,848
Candles made ..	27,459	23,194	10,539	11,298	13,619	21,245

(a) Soap made in all factories including those not classified as "Soap and Candles" factories.

The output for the year 1949-50 comprised the following quantities of soap :— Household, 599,422 cwt. ; Flakes and Chips, Household, 52,562 cwt. ; Flakes and Chips, Industrial, 7,688 cwt. ; Sand, 44,981 cwt. ; Toilet and Hand, 267,793 cwt. ; Shaving (including Sticks and Creams), 8,995 cwt. ; Industrial, 79,927 cwt. ; Soft, 19,561 cwt. ; Liquid, 84,503 cwt. ; Shampoo (Powder), 577 cwt. ; Shampoo (liquid), 8,596 cwt. ; Soap Extract and Powders—Household, 686,288 cwt., Industrial, 11,560 cwt. This includes 168,580 cwt. of soap made in establishments not classified as Soap and Candle Factories.

6. Chemical Fertilizers.—(i) *Details for each State.* The following table shows particulars of the factories engaged in the manufacture of chemical fertilizers in each State during 1949-50. Details of the consumption, imports and exports of fertilizers will be found in Chapter XX.—Agricultural Production.

CHEMICAL FERTILIZERS, 1949-50.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	14	9	7	7	6	8	51
Number of persons employed ..	782	1,246	252	799	730	80	3,889
Value of land and buildings £	1,984,387	577,699	89,375	346,262	589,485	46,072	3,633,280
Value of plant and machinery £	2,079,925	1,061,668	125,452	710,777	823,295	48,060	4,849,177
Salaries and wages paid £	406,858	702,840	120,310	394,696	372,935	52,887	2,050,526
Value of power, fuel, etc., used £	133,326	107,058	7,661	55,984	101,147	2,184	407,360
Value of materials used £	1,427,177	4,715,393	1,042,210	1,913,089	3,165,087	474,048	12,737,004
Total value of output £	2,151,962	6,461,135	1,282,781	2,613,661	4,029,784	602,563	17,141,916
Value of production ..	£ 591,459	1,638,684	232,910	644,618	763,550	126,331	3,997,552

(ii) *Total for Australia.* The development of this industry since 1938–39 is set out hereunder :—

**CHEMICAL FERTILIZERS : AUSTRALIA.**

Items.	1938-39.	1945-46.	1946-47.	1947-48.	1948-49.	1949-50.
Number of factories ..	36	38	39	47	50	51
Number of persons employed ..	2,540	3,127	3,459	3,621	3,894	3,889
Value of land and buildings £	1,449,157	1,571,948	1,617,318	1,721,533	3,511,219	3,633,280
Value of plant and machinery £	2,352,819	2,409,368	2,396,536	2,856,957	4,781,939	4,849,177
Salaries and wages paid £	601,477	1,091,275	1,283,817	1,549,197	1,846,614	2,050,526
Value of power, fuel, etc., used £	113,749	181,418	205,302	269,605	371,718	407,360
Value of materials used £	3,231,053	7,898,493	8,288,987	9,958,424	11,909,725	12,737,004
Total value of output £	4,944,800	10,046,710	10,577,165	13,107,526	15,681,118	17,141,916
Value of production ..	£ 1,599,998	£ 1,966,799	£ 2,082,876	£ 2,879,497	£ 3,399,675	£ 3,997,552

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 1949–50 for each State for the group Smelting, Converting, Refining and Rolling of Iron and Steel.

**SMELTING, CONVERTING, REFINING AND ROLLING OF IRON AND STEEL,  
1949-50.**

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	16	10	..	3	1	..	30
Number of persons employed ..	10,226	(a)	..	(a)	(a)	..	11,509
Value of land and buildings £	2,535,573	(a)	..	(a)	(a)	..	2,812,372
Value of plant and machinery £	6,602,009	(a)	..	(a)	(a)	..	7,185,284
Salaries and wages paid £	6,228,555	(a)	..	(a)	(a)	..	6,978,049
Value of power, fuel, etc., used £	4,768,296	(a)	..	(a)	(a)	..	5,515,501
Value of materials used £	28,938,219	(a)	..	(a)	(a)	..	29,747,222
Total value of output £	45,312,832	(a)	..	(a)	(a)	..	48,046,988
Value of production ..	£ 11,606,317	(a)	..	(a)	(a)	..	£ 12,784,265

(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 1949–50 in the following table :—

**FOUNDRIES (FERROUS), 1949-50.**

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	93	201	23	19	17	..	353
Number of persons employed ..	2,650	2,248	550	435	463	..	6,346
Value of land and buildings £	490,446	521,987	77,698	37,311	79,653	..	1,207,097
Value of plant and machinery £	424,828	423,710	82,145	59,223	72,758	..	1,062,664
Salaries and wages paid £	1,299,252	1,058,183	233,112	200,405	194,045	..	2,984,997
Value of power, fuel, etc., used £	129,919	128,487	19,382	24,132	38,558	..	340,478
Value of materials used £	825,032	862,255	166,879	119,172	142,839	..	2,116,177
Total value of output £	3,060,501	2,625,570	540,018	419,017	459,456	..	7,104,562
Value of production ..	£ 2,105,550	£ 1,634,828	£ 353,757	£ 275,713	£ 278,059	..	£ 4,647,907

(iv) *Plant, Equipment and Machinery including Machine Tools.* In the next table particulars are shown for 1949-50 for those factories included in the third group mentioned previously.

## PLANT, EQUIPMENT AND MACHINERY (INCLUDING MACHINE TOOLS), 1949-50.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	748	499	93	97	61	..	1,498
Number of persons employed ..	26,746	16,943	4,968	5,928	1,759	..	56,344
Value of land and buildings £	6,239,583	4,335,911	653,642	1,035,926	414,703	..	12,679,765
Value of plant and machinery £	6,056,165	4,105,708	709,610	1,210,678	428,758	..	12,510,919
Salaries and wages paid £	12,655,899	8,213,668	2,036,878	2,863,590	724,740	..	26,494,775
Value of power, fuel, etc., used £	475,770	331,576	81,622	145,143	41,394	..	1,075,505
Value of materials used £	18,353,274	12,490,654	2,269,988	4,498,247	844,490	..	38,456,653
Total value of output £	38,095,732	26,086,387	5,338,279	8,983,155	1,986,365	..	80,489,918
Value of production ..	£ 19,266,688	13,264,157	2,986,669	4,339,765	1,100,481	..	40,957,760

(v) *Other Engineering.* Details covering jobbing and general engineering works not elsewhere included are shown for each State for 1949-50 in the following table.

## OTHER ENGINEERING, 1949-50.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	566	530	98	125	100	76	1,495
Number of persons employed ..	4,399	6,913	1,421	2,441	534	1,090	16,798
Value of land and buildings £	2,092,757	1,843,029	272,927	380,639	144,520	367,095	5,100,967
Value of plant and machinery £	935,881	1,561,140	225,428	429,296	94,065	269,541	3,515,351
Salaries and wages paid £	1,665,317	3,149,632	547,843	982,579	176,111	455,845	6,977,327
Value of power, fuel, etc., used £	65,841	98,410	15,070	33,355	10,349	17,517	240,522
Value of materials used £	1,695,868	2,835,334	533,421	946,693	266,772	358,510	6,636,598
Total value of output £	4,759,790	7,768,892	1,330,224	2,460,188	594,159	1,050,347	17,963,600
Value of production ..	£ 2,998,081	4,835,148	781,733	1,480,160	317,038	674,320	11,086,480

8. *Extracting and Refining of Non-ferrous Metals ; Alloys.*—(i) *Details for each State.* The following table shows particulars of establishments engaged in metal extraction and ore reduction including secondary recovery of metals, but excludes blast furnaces engaged in production of pig iron from iron ore.

## EXTRACTING AND REFINING OF NON-FERROUS METALS ; ALLOYS, 1949-50.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust. (a)	Tas.	Australia.
Number of factories ..	28	17	11	3	..	3	62
Number of persons employed ..	1,863	180	951	(b)	..	(b)	7,394
Value of land and buildings £	487,012	81,535	319,769	(b)	..	(b)	1,861,254
Value of plant and machinery £	1,475,986	26,035	1,009,802	(b)	..	(b)	4,605,203
Salaries and wages paid £	1,131,224	106,636	461,209	(b)	..	(b)	4,324,331
Value of power, fuel, etc., used £	623,396	15,400	169,306	(b)	..	(b)	1,907,881
Value of materials used £	16,263,781	1,001,432	3,116,134	(b)	..	(b)	38,993,366
Total value of output £	21,745,633	1,264,732	7,256,484	(b)	..	(b)	56,618,997
Value of production ..	£ 4,858,456	247,900	3,971,044	(b)	..	(b)	15,717,750

(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.

(ii) *Total for Australia.* The development of this industry since 1938-39 is set out hereunder :—

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

Items.	1938-39.	1945-46.	1946-47.	1947-48.	1948-49.	1949-50.
Number of factories ..	42	49	51	54	56	62
Number of persons employed ..	5,532	6,066	6,597	6,843	7,040	7,394
Value of land and buildings £	1,177,348	1,384,721	1,577,706	1,461,458	1,648,983	1,861,254
Value of plant and machinery £	3,525,659	3,795,038	3,680,348	3,833,901	4,266,759	4,605,203
Salaries and wages paid £	1,613,107	2,279,972	2,856,150	3,379,030	3,919,107	4,324,331
Value of power, fuel, etc., used £	597,951	1,057,934	1,166,337	1,358,463	1,711,969	1,907,881
Value of materials used £	16,844,310	18,042,070	26,806,144	30,757,008	41,487,792	38,993,366
Total value of output £	21,333,872	24,626,910	37,406,311	42,779,193	59,231,273	56,618,997
Value of production ..	3,891,611	5,526,906	9,433,830	10,663,722	16,031,512	15,717,750

9. *Electrical Machinery, Cables and Apparatus.*—(i) *Details for Each State.* The following table shows particulars of this industry for each State during 1949-50 :—

### ELECTRICAL MACHINERY, CABLES AND APPARATUS, 1949-50.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories ..	390	238	46	57	63	17	811
Number of persons employed ..	20,977	7,178	853	1,080	729	139	30,956
Value of land and buildings £	4,181,067	1,532,387	149,955	203,974	169,608	56,027	6,293,018
Value of plant and machinery £	2,740,259	1,099,824	100,388	91,604	56,089	38,988	4,127,152
Salaries and wages paid £	9,354,845	3,172,695	329,262	391,173	262,185	53,300	13,563,460
Value of power, fuel, etc., used £	321,060	97,629	7,803	15,506	9,270	2,318	453,586
Value of materials used £	14,685,921	4,964,411	493,431	549,886	365,040	90,484	21,149,173
Total value of output £	29,678,060	9,900,113	979,498	1,214,520	795,188	189,004	42,756,383
Value of production ..	14,671,079	4,838,073	478,264	649,128	420,878	96,202	21,153,624

(ii) *Total for Australia.* The increased output of electrical energy in Australia within recent years, referred to in par. 39 below, caused a corresponding demand for electrical equipment. Difficulties, due to war, in obtaining electrical equipment from abroad have been responsible for considerable development in the manufacture of electrical goods and equipment in Australia, as shown in the following table.

### ELECTRICAL MACHINERY, CABLES AND APPARATUS : AUSTRALIA.

Items.	1938-39.	1945-46.	1946-47.	1947-48.	1948-49.	1949-50.
Number of factories ..	360	551	658	732	791	811
Number of persons employed ..	10,666	22,825	25,077	27,579	29,961	30,956
Value of land and buildings £	1,627,183	3,507,375	3,950,804	4,488,206	5,382,287	6,293,018
Value of plant and machinery £	896,553	2,084,018	2,524,818	2,987,963	3,664,289	4,127,152
Salaries and wages paid £	2,031,998	6,301,035	7,455,375	9,454,291	11,703,047	13,563,460
Value of power, fuel, etc., used £	104,594	208,729	244,384	291,417	365,925	453,586
Value of materials used £	3,195,032	8,685,443	10,467,524	14,310,252	16,510,308	21,149,173
Total value of output £	6,954,498	17,789,829	21,996,743	27,891,275	34,710,482	42,756,383
Value of production ...	3,654,872	9,495,657	11,284,835	13,289,666	17,834,249	21,153,624

10. **Railway and Tramway Workshops.**—(i) *Details for each State, 1949-50.* 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 1949-50) controlled by non-public bodies are not included in the figures below :—

**TRAMCARS AND RAILWAY ROLLING STOCK(a), 1949-50.**

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories ..	48	25	11	14	22	7	127
Number of persons employed ..	17,402	6,655	5,945	4,184	3,429	817	35,432
Value of land and buildings ..	£ 3,990,737	£ 1,425,227	£ 570,003	£ 1,165,227	£ 522,751	£ 376,700	£ 8,050,645
Value of plant and machinery ..	£ 4,804,012	£ 477,466	£ 507,507	£ 1,163,021	£ 676,975	£ 295,874	£ 7,924,855
Salaries and wages paid ..	£ 8,300,753	£ 3,082,342	£ 2,958,527	£ 1,957,007	£ 1,393,097	£ 304,774	£ 18,057,100
Value of power, fuel, etc., used ..	£ 188,908	£ 90,619	£ 63,832	£ 91,473	£ 51,938	£ 13,019	£ 499,789
Value of materials used ..	£ 4,882,774	£ 2,244,402	£ 1,515,775	£ 1,126,613	£ 1,205,558	£ 157,612	£ 11,132,736
Total value of output ..	£ 14,971,196	£ 6,409,097	£ 4,889,912	£ 3,500,786	£ 2,915,740	£ 588,945	£ 33,275,676
Value of production ..	£ 9,899,574	£ 4,074,076	£ 3,310,305	£ 2,282,698	£ 1,658,244	£ 418,314	£ 21,643,151

(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.

(ii) *Total for Australia.* The following table shows the development of railway and tramway workshops in Australia since 1938-39 :—

**TRAMCARS AND RAILWAY ROLLING STOCK(a) : AUSTRALIA.**

Items.	1938-39.	1945-46.	1946-47.	1947-48.	1948-49.	1949-50.
Number of factories ..	117	115	115	128	128	127
Number of persons employed ..	27,310	36,962	37,347	37,496	37,993	38,432
Value of land and buildings ..	£ 6,739,924	£ 6,960,491	£ 7,081,749	£ 7,513,508	£ 7,773,371	£ 8,050,645
Value of plant and machinery ..	£ 5,390,179	£ 6,034,499	£ 5,647,926	£ 6,325,018	£ 7,206,199	£ 7,924,855
Salaries and wages paid ..	£ 6,720,990	£ 11,656,718	£ 12,051,260	£ 14,297,402	£ 10,357,427	£ 18,057,100
Value of power, fuel, etc., used ..	£ 226,108	£ 371,865	£ 370,715	£ 371,626	£ 449,808	£ 499,789
Value of materials used ..	£ 4,976,353	£ 8,143,346	£ 8,131,025	£ 9,074,371	£ 9,533,164	£ 11,132,736
Total value of output ..	£ 13,223,114	£ 22,308,803	£ 22,773,668	£ 26,833,047	£ 29,247,553	£ 33,275,676
Value of production ..	£ 8,020,653	£ 13,793,592	£ 14,271,028	£ 17,387,049	£ 19,264,581	£ 21,643,151

(a) Government and Local Authority only.

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 1949-50 for each branch of industry associated with the motor trade of Australia.

**MOTOR VEHICLES : CONSTRUCTION, ASSEMBLY, REPAIRS, ETC. : AUSTRALIA, 1949-50.**

Items.	Construction and Assembly.	Motor Bodies.	Repairs.	Motor Accessories.	Total.
Number of factories ..	72	476	4,649	133	5,330
Number of persons employed ..	11,357	16,168	35,228	5,121	67,874
Value of land and buildings ..	£ 2,213,264	£ 2,889,726	£ 12,502,337	£ 1,193,537	£ 18,800,684
Value of plant and machinery ..	£ 2,011,042	£ 2,083,887	£ 4,111,716	£ 1,256,981	£ 9,463,630
Salaries and wages paid ..	£ 5,902,890	£ 7,546,909	£ 12,866,832	£ 2,375,170	£ 28,687,798
Value of power, fuel, etc., used ..	£ 181,935	£ 202,737	£ 388,332	£ 121,882	£ 894,886
Value of materials used ..	£ 4,723,019	£ 11,387,830	£ 13,889,204	£ 2,427,906	£ 32,427,959
Total value of output ..	£ 15,737,004	£ 21,918,822	£ 34,376,522	£ 6,389,661	£ 78,413,009
Value of production ..	£ 10,833,050	£ 10,328,255	£ 20,098,986	£ 3,350,873	£ 45,091,164

In the next table similar details are shown on a State basis for these branches combined.

**MOTOR VEHICLES : CONSTRUCTION, ASSEMBLY, REPAIRS, ETC., 1949-50.**

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas. (a)	Australia.
Number of factories ..	2,026	1,520	728	360	491	205	5,330
Number of persons employed ..	20,759	23,372	7,168	10,917	4,232	1,426	67,874
Value of land and buildings £	7,268,387	6,135,190	1,689,665	1,783,147	1,297,251	627,044	18,800,684
Value of plant and machinery £	2,799,503	3,491,748	732,001	1,733,620	579,415	127,343	9,463,630
Salaries and wages paid £	8,247,080	10,777,670	2,461,871	5,135,744	1,579,261	484,172	28,685,798
Value of power, fuel, etc., used £	255,125	332,667	78,416	158,716	59,404	10,558	894,886
Value of materials used £	9,174,626	10,898,989	2,568,542	7,194,432	2,114,781	475,589	32,426,959
Total value of output £	22,583,442	27,579,554	7,698,065	14,637,000	4,701,511	1,219,737	78,413,009
Value of production ..	£ 13,153,691	16,347,898	5,051,107	7,277,552	2,527,326	733,590	45,091,164

(a) Includes horse-drawn vehicles.

The table below shows the output of motor bodies together with the number imported into Australia for 1938-39 and the years 1944-45 to 1949-50 :—

**MOTOR BODIES (a) : PRODUCTION AND IMPORTS, AUSTRALIA.**

Items.	1938-39.	1944-45.	1945-46.	1946-47.	1947-48.	1948-49.	1949-50.
Motor Bodies—							
Number made .. No.	79,436	22,805	19,473	45,374	58,354	68,230	67,346
Value .. £	6,421,142	2,530,043	2,356,778	5,690,715	9,209,651	12,144,871	14,018,846
Number imported .. No.	532	6	223	742	13,724	34,728	115,484
Value .. £	64,571	1,295	34,050	148,999	2,174,214	5,568,321	17,994,107

(a) Excludes sidecars.

In the next table particulars are given of the number and value of motor chassis imported into Australia for the years shown.

**MOTOR CHASSIS : IMPORTS, AUSTRALIA.**

Items.	1938-39.	1944-45.	1945-46.	1946-47.	1947-48.	1948-49.	1949-50.
Number imported .. No.	76,094	6,660	10,113	66,785	66,832	101,664	187,363
Value .. .. £	7,315,321	3,153,608	1,879,046	11,479,744	15,180,490	23,635,835	44,965,481

12. **Agricultural Machines and Implements.**—(i) *General.* 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.

(ii) *Details for States.* The following table shows details of agricultural implement works in each State for 1949-50 :—

**AGRICULTURAL MACHINES AND IMPLEMENTS, 1949-50.**

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	64	72	24	31	17	..	208
Number of persons employed ..	1,918	5,578	1,369	1,345	244	..	10,454
Value of land and buildings £	471,300	1,255,510	168,257	172,844	133,417	..	2,201,328
Value of plant and machinery £	295,888	1,501,751	137,054	246,819	33,836	..	2,215,348
Salaries and wages paid £	948,080	2,798,859	542,922	623,768	98,242	..	5,011,871
Value of power, fuel, etc., used £	34,086	180,926	22,646	52,343	1,954	..	291,955
Value of materials used £	1,213,454	4,286,694	674,225	678,777	57,208	..	6,910,358
Total value of output £	2,606,923	8,348,522	1,461,527	1,565,115	203,319	..	14,185,406
Value of production ..	£ 1,359,383	3,880,902	764,656	833,095	144,157	..	6,983,093

(iii) *Total for Australia.* Comparative statistics for 1938-39 and the years 1945-46 to 1949-50 are shown hereunder:—

## AGRICULTURAL MACHINES AND IMPLEMENTS : AUSTRALIA.

Items.	1938-39.	1945-46	1946-47.	1947-48.	1948-49.	1949-50.
Number of factories ..	161	172	181	186	196	208
Number of persons employed ..	6,563	9,510	8,743	9,185	9,629	10,454
Value of land and buildings ..	£ 996,949	£ 1,199,952	£ 1,251,975	£ 1,530,940	£ 1,912,806	£ 2,201,328
Value of plant and machinery ..	£ 910,520	£ 1,229,597	£ 1,232,482	£ 1,625,335	£ 1,938,236	£ 2,215,348
Salaries and wages paid ..	£ 1,373,213	£ 2,893,892	£ 2,856,273	£ 3,498,858	£ 4,198,793	£ 5,011,871
Value of power, fuel, etc., used ..	£ 81,736	£ 186,150	£ 172,416	£ 204,060	£ 233,260	£ 291,955
Value of materials used ..	£ 1,485,018	£ 2,717,302	£ 2,901,313	£ 3,578,619	£ 4,479,860	£ 6,910,358
Total value of output ..	£ 3,403,091	£ 6,701,344	£ 6,717,194	£ 8,397,643	£ 10,384,176	£ 14,185,406
Value of production ..	£ 1,836,337	£ 3,797,892	£ 3,643,465	£ 4,614,964	£ 5,671,056	£ 6,983,093

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 331,128 in 1930-31 to 2,245,307 at December, 1951, 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.	1946-47.	1947-48.	1948-49.	1949-50.
Number of factories ..	72	97	127	134	136	129
Number of persons employed ..	4,828	8,709	8,935	9,543	9,213	9,283
Value of land and buildings ..	£ 557,953	£ 969,105	£ 1,133,159	£ 1,115,494	£ 1,105,944	£ 1,204,813
Value of plant and machinery ..	£ 305,468	£ 711,805	£ 587,179	£ 643,732	£ 688,162	£ 770,185
Salaries and wages paid ..	£ 734,302	£ 2,295,866	£ 2,569,401	£ 3,070,698	£ 3,362,259	£ 3,744,637
Value of power, fuel, etc., used ..	£ 23,525	£ 58,240	£ 62,365	£ 91,072	£ 102,703	£ 100,916
Value of materials used ..	£ 1,355,683	£ 3,446,056	£ 4,169,444	£ 4,919,968	£ 5,196,786	£ 6,408,842
Total value of output ..	£ 2,502,338	£ 6,514,933	£ 7,721,018	£ 9,235,861	£ 9,911,873	£ 11,761,450
Value of production ..	£ 1,123,130	£ 3,010,639	£ 3,489,209	£ 4,224,821	£ 4,612,384	£ 5,251,692
Domestic receiving sets made No.	163,821	93,048	261,359	335,208	294,119	343,323

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 2 million lb. in the five years ended 1949-50. 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 since the commencement of the Pacific War there has been a definite downward trend. 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 ginneries and processes by-products. The production of raw cotton is insufficient for local factory requirements and is supplemented by imports from overseas, chiefly from India, Brazil 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 five years ended 1949-50 in comparison with 1938-39.

## COTTON SPINNING AND WEAVING : AUSTRALIA.

Items.	1938-39.	1945-46.	1946-47.	1947-48.	1948-49.	1949-50.
Number of factories ..	33	78	81	79	91	93
Number of persons employed ..	3,589	7,253	7,705	7,702	8,246	8,377
Value of land and buildings ..	703,790	1,529,150	1,709,711	1,867,737	2,077,982	2,843,639
Value of plant and machinery ..	735,529	1,913,775	1,985,327	2,042,326	2,748,439	4,117,589
Salaries and wages paid ..	493,109	1,714,669	2,152,044	2,511,918	2,939,115	3,306,022
Value of power, fuel, etc., used ..	50,011	149,090	186,563	209,096	250,739	308,156
Value of materials used ..	1,357,280	4,559,560	5,574,680	6,075,570	7,856,804	9,889,139
Total value of output ..	2,385,990	7,936,716	9,499,843	10,371,439	12,896,178	16,188,407
Value of production ..	978,699	3,227,166	3,738,591	4,086,773	4,788,635	5,991,112

15. Wool Carding, Spinning and Weaving.—(i) *Details for each State.* The importance of this industry is emphasized 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. The following table shows particulars for 1949-50.

## WOOL CARDING, SPINNING AND WEAVING, 1949-50.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories ..	57	95	4	3	3	6	168
Number of persons employed ..	7,987	12,114	920	599	328	2,406	24,354
Value of land and buildings ..	1,548,052	2,358,166	109,829	37,568	81,887	211,767	4,347,269
Value of plant and machinery ..	1,694,031	2,871,857	235,568	68,762	84,906	279,608	5,234,732
Salaries and wages paid ..	2,900,595	4,954,740	279,180	226,889	118,530	924,357	9,404,341
Value of power, fuel, etc., used ..	248,892	470,550	20,093	23,196	14,097	54,228	831,056
Value of materials used ..	9,435,031	17,467,095	1,075,209	859,515	776,128	3,128,541	32,741,519
Total value of output ..	14,005,877	26,818,728	1,532,382	1,301,880	1,215,535	5,063,999	49,998,419
Value of production ..	4,321,954	8,881,083	437,080	479,169	425,328	1,881,230	16,425,844

(ii) *Total for Australia.* The extent of the wool textile industry in Australia in the years 1945-46 to 1949-50 compared with 1938-39 is shown in the following table. Detailed particulars for the several States are not available for publication.

## WOOL CARDING, SPINNING AND WEAVING : AUSTRALIA.

Items.	1938-39. (a)	1945-46	1946-47.	1947-48.	1948-49.	1949-50.
Number of factories ..	90	114	126	142	153	168
Number of persons employed ..	19,608	21,536	22,851	23,480	24,893	24,354
Value of land and buildings ..	2,380,009	3,028,066	3,080,180	3,459,547	3,654,059	4,347,269
Value of plant and machinery ..	3,369,517	2,925,811	3,060,444	3,527,484	4,245,579	5,234,732
Salaries and wages paid ..	2,887,907	5,324,388	6,085,426	7,164,651	8,684,370	9,404,341
Value of power, fuel, etc., used ..	392,537	511,416	615,667	672,032	786,560	831,056
Value of materials used ..	7,331,117	12,314,413	14,133,889	16,072,097	23,643,448	32,741,519
Total value of output ..	12,514,610	21,776,979	25,153,735	29,030,831	38,028,454	49,998,419
Value of production ..	4,790,956	8,951,150	10,404,179	12,286,702	13,598,446	16,425,844
Woolen cloth and tweed sq. yd.	8,336,226	16,707,262	18,626,138	18,811,635	16,319,099	13,245,309
Worsted Cloth ..	17,986,091	12,643,557	14,276,818	16,459,496	18,073,858	19,074,183
Serge ..	792,314	1,022,388	740,048	827,789	1,573,403	817,270
Flannel—						
For outer clothing ..	2,143,835	2,192,849	2,682,917	3,227,006	2,936,531	1,885,636
For underwear (pure) ..	1,557,373	1,566,932	1,850,643	1,641,085	1,526,908	1,659,014
For underwear (mixtures) ..	813,530	655,803				
Blankets .. pair	573,795	981,036	703,247	721,089	689,154	895,586

(a) Includes Woolscouring Works in Victoria and Tasmania and Woolscouring Works and Fellmongeries in South Australia.

16. *Hosiery and Other Knitted Goods.*—(i) *Details for each State.* There were 496 hosiery and knitting mills operating in Australia during 1949-50. The total number of persons employed in these establishments was 21,577, of whom 14,951 were females. Details for each State are shown in the following table :—

**HOSIERY AND OTHER KNITTED GOODS, 1949-50.**

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories ..	143	327	6	8	8	4	496
Number of persons employed ..	6,471	14,204	512	113	180	97	21,577
Value of land and buildings £	1,212,421	2,506,414	97,357	24,155	22,922	13,329	3,876,598
Value of plant and machinery £	1,000,747	2,666,497	104,665	13,271	14,496	15,058	3,814,734
Salaries and wages paid £	2,243,082	4,881,239	144,804	33,931	49,494	29,259	7,381,809
Value of power, fuel, etc., used£	86,086	220,603	3,667	1,209	1,936	1,607	315,108
Value of materials used £	5,398,518	10,334,455	656,969	50,602	123,119	73,220	16,636,883
Total value of output £	9,220,795	18,775,268	931,622	105,073	201,955	116,006	29,350,719
Value of production ..	£ 3,736,191	8,220,210	270,986	53,262	76,900	41,179	12,398,728

(ii) *Total for Australia.* Comparative statistics for 1938-39 and the years 1945-46 to 1949-50 are shown in the following table :—

**HOSIERY AND OTHER KNITTED GOODS : AUSTRALIA.**

Items.	1938-39.	1945-46.	1946-47.	1947-48.	1948-49.	1949-50.
Number of factories ..	313	376	397	420	465	496
Number of persons employed ..	18,159	17,091	19,264	20,337	21,116	21,577
Value of land and buildings £	1,962,336	2,444,369	2,608,352	2,753,994	3,210,207	3,876,598
Value of plant and machinery £	1,930,564	1,358,482	1,521,026	1,964,508	2,763,101	3,814,734
Salaries and wages paid £	2,331,536	3,687,445	4,502,549	5,469,605	6,526,281	7,381,809
Value of power, fuel, etc., used £	133,154	185,159	212,469	235,077	271,553	315,108
Value of materials used £	4,284,216	7,202,997	8,786,552	10,897,809	14,137,338	16,636,883
Total value of output £	8,226,468	13,252,876	16,831,684	20,661,106	24,951,041	29,350,719
Value of production ..	£ 3,809,098	5,864,720	7,832,663	9,528,220	10,542,150	12,398,728

(iii) *Materials used and Production, 1949-50.* The following quantities of yarn were used in these establishments during 1949-50, viz. :—Worsted, 8,524,701 lb. ; woollen, 142,828 lb. ; cotton, 8,773,975 lb. ; mercerised cotton, 568,023 lb. ; rayon, 6,512,710 lb. ; silk, 196,136 lb. ; nylon, 530,742 lb. ; other, including mixtures, 216,893 lb. Production comprised 42,094,068 garments, valued at £15,844,571 ; and 3,524,213 dozen pairs of socks and stockings, valued at £9,220,238.

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

**TANNING, CURRYING AND LEATHER DRESSING, 1949-50.**

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories ..	71	46	12	10	5	1	145
Number of persons employed ..	1,901	2,497	618	215	(a)	(a)	5,473
Value of land and buildings £	596,758	582,479	64,530	65,239	(a)	(a)	1,355,319
Value of plant and machinery £	500,884	426,461	107,907	91,749	(a)	(a)	1,170,945
Salaries and wages paid £	1,001,042	1,277,156	275,654	96,337	(a)	(a)	2,755,456
Value of power, fuel, etc., used£	100,522	108,255	17,948	8,766	(a)	(a)	242,943
Value of materials used £	2,731,081	2,841,802	776,292	222,208	(a)	(a)	6,846,103
Total value of output £	4,337,125	5,023,446	1,224,516	373,516	(a)	(a)	11,419,328
Value of production ..	£ 1,505,522	2,073,389	430,276	142,542	(a)	(a)	4,330,282

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

(ii) *Total for Australia.* The development of the tanning industry during the years 1938-39 and 1945-46 to 1949-50 is shown in the following table:—

**TANNING, CURRYING AND LEATHER DRESSING : AUSTRALIA.**

Items.	1938-39.	1945-46.	1946-47.	1947-48.	1948-49.	1949-50.
Number of factories ..	132	152	154	149	144	145
Number of persons employed ..	4,375	5,022	5,428	5,361	5,421	5,473
Value of land and buildings £	813,713	1,048,240	1,127,454	1,154,301	1,270,961	1,355,319
Value of plant and machinery £	523,538	704,551	785,894	857,186	979,592	1,170,945
Salaries and wages paid £	919,781	1,662,156	1,953,573	2,182,874	2,501,897	2,755,456
Value of power, fuel, etc., used £	87,670	127,824	143,501	165,777	188,670	242,943
Value of materials used £	2,983,041	5,237,697	6,218,200	6,308,195	6,465,893	6,846,103
Total value of output £	4,592,642	8,055,696	9,646,020	9,804,867	10,525,558	11,419,328
Value of production .. £	1,521,931	2,690,175	3,279,319	3,330,895	3,870,995	4,330,282

(iii) *Material Used and Production.* The quantities of materials used and leather produced in tanneries in each State in 1949-50 are shown in the following table. Some leather is also produced in works other than tanneries, but this is excluded.

**TANNERIES : MATERIAL USED AND PRODUCTION, 1949-50.**

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Hides .. No.	861,430	1,123,577	358,773	(a)	137,422	(a)	2,593,956
Skins—							
Calf ..	608,303	549,284	181,824	5,749	(a)	(a)	1,350,763
Goat ..	851,155	(a)	(a)	..	..	..	908,602
Sheep ..	..	433,350	(a)	(a)	..	..	440,491
Marsupial ..	19,198	32,369	(a)	(a)	..	..	68,297
Pelts treated ..	b 2,657,472	290,950	(a)	(a)(b)	..	..	b 3,866,745
Bark used—							
Wattle .. tons	3,916	5,066	1,286	(b) 1,307	(a)	(a)	(b) 11,667
Mallet ..	..	460	..	..	342	..	802
Other ..	(a)	(a)	..	..	..	..	848
Tanning extract used ..	4,149	2,929	1,920	(a)(b)	1,132	(a)(b)	(b) 10,714
Leather made—							
Sole and Belting lb.	11,736,243	14,837,098	7,057,084	(a)	3,352,335	(a)	38,650,009
Harness ..	636,743	459,931	826,347	(a)	(a)	..	1,965,573
Upholstery .. sq. ft.	(a)	5,778,699	(a)	(a)	..	..	10,318,195
Dressed and Upper from Hides—							
Sold by Measurement—							
Patent sq. ft.	335,563	1,070,547	..	..	..	..	1,406,110
All Other ..	12,722,417	18,477,879	6,589,793	2,204,440	(a)	(a)	41,704,049
Sold by Weight (all kinds) lb.	(a)	114,604	(a)	(a)	8,711	(a)	233,006
Dressed from skins—							
Calf .. sq. ft.	3,996,441	3,610,066	1,095,707	(a)	50,604	(a)	8,799,138
Goat ..	3,754,929	(a)	(a)	(a)	..	..	4,009,508
Sheep ..	10,160,449	1,959,187	(a)	(a)	..	..	b15,997,353
Marsupial ..	96,712	129,288	(a)	(a)	..	..	302,632

(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 Factories.*—(i) *Details for each State.* Statistics showing the distribution of this industry between States in 1949-50 are shown in the following table:—

**TAILORING AND READY-MADE CLOTHING FACTORIES, 1949-50.**

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	879	560	160	139	143	21	1,902
Number of persons employed ..	18,960	10,642	3,196	2,688	1,338	426	37,250
Value of land and buildings £	3,102,095	1,603,767	381,700	453,111	267,192	63,830	5,871,695
Value of plant and machinery £	976,235	473,549	82,204	91,402	30,925	11,502	1,665,817
Salaries and wages paid £	5,702,690	3,557,969	808,513	714,259	343,456	119,544	11,246,431
Value of power, fuel, etc., used £	97,258	70,229	13,935	15,052	5,832	1,889	204,195
Value of materials used £	10,790,555	6,496,568	1,423,750	890,948	464,168	121,235	20,187,224
Total value of output £	19,428,443	12,208,493	2,699,441	1,882,856	976,101	280,589	37,475,923
Value of production .. £	8,540,630	5,641,696	1,261,756	976,856	506,101	157,465	17,084,504

(ii) *Total for Australia.* Details for the five years 1945-46 to 1949-50, compared with 1938-39 are as follows :—

## TAILORING AND READY-MADE CLOTHING FACTORIES : AUSTRALIA.

Items.	1938-39.	1945-46.	1946-47.	1947-48.	1948-49.	1949-50.
Number of factories ..	1,177	1,420	1,576	1,687	1,874	1,902
Number of persons employed ..	26,499	30,047	33,441	35,374	37,958	37,250
Value of land and buildings ..	£ 3,175,748	£ 4,141,584	£ 4,655,424	£ 4,915,366	£ 5,549,818	£ 5,871,695
Value of plant and machinery ..	£ 355,503	£ 828,695	£ 965,847	£ 1,215,375	£ 1,460,516	£ 1,665,817
Salaries and wages paid ..	£ 3,168,472	£ 5,506,614	£ 6,899,245	£ 8,186,135	£ 10,323,392	£ 11,240,431
Value of power, fuel, etc., used ..	£ 72,431	£ 116,616	£ 133,904	£ 149,720	£ 186,648	£ 204,195
Value of materials used ..	£ 4,946,519	£ 9,616,801	£ 12,255,029	£ 15,232,733	£ 19,343,976	£ 20,187,224
Total value of output ..	£ 9,830,646	£ 18,614,568	£ 23,244,804	£ 27,872,666	£ 35,199,165	£ 37,475,923
Value of production ..	£ 4,811,696	£ 8,880,951	£ 10,855,871	£ 12,490,213	£ 15,668,541	£ 17,084,504

19. Dressmaking and Millinery Establishments.—Particulars of dressmaking and millinery establishments in Australia for the five years ended 1949-50 compared with 1938-39 are shown in the following table :—

## DRESSMAKING AND MILLINERY ESTABLISHMENTS : AUSTRALIA.

Items.	1938-39.	1945-46.	1946-47.	1947-48.	1948-49.	1949-50.
Number of factories ..	869	998	1,002	1,175	1,270	1,313
Number of persons employed ..	16,398	18,051	20,437	20,893	21,934	22,384
Value of land and buildings ..	£ 2,051,611	£ 2,723,617	£ 2,956,635	£ 3,303,687	£ 3,420,811	£ 3,626,294
Value of plant and machinery ..	£ 189,263	£ 362,065	£ 428,127	£ 509,603	£ 601,092	£ 713,220
Salaries and wages paid ..	£ 1,652,868	£ 3,037,698	£ 3,768,483	£ 4,367,523	£ 5,496,616	£ 6,243,588
Value of power, fuel, etc., used ..	£ 33,067	£ 47,379	£ 66,480	£ 77,300	£ 94,801	£ 112,617
Value of materials used ..	£ 2,609,363	£ 5,280,433	£ 6,238,057	£ 8,300,052	£ 10,103,876	£ 8,996,084
Total value of output ..	£ 5,234,727	£ 10,507,792	£ 12,330,358	£ 15,665,395	£ 18,986,443	£ 18,920,277
Value of production ..	£ 2,592,297	£ 5,169,980	£ 6,025,812	£ 7,288,043	£ 8,787,766	£ 9,812,576

20. Shirts, Collars and Underclothing.—(i) *Details for each State.* Particulars of this industry are shown for 1949-50 in the following table :—

## SHIRTS, COLLARS AND UNDERCLOTHING, 1949-50.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	184	137	21	33	20	2	397
Number of persons employed ..	5,378	4,857	1,166	517	(a)	(a)	12,545
Value of land and buildings ..	£ 864,567	£ 708,923	£ 119,171	£ 76,981	(a)	(a)	£ 1,833,291
Value of plant and machinery ..	£ 336,660	£ 261,865	£ 42,167	£ 27,055	(a)	(a)	£ 692,953
Salaries and wages paid ..	£ 1,545,328	£ 1,398,390	£ 297,854	£ 131,500	(a)	(a)	£ 3,514,706
Value of power, fuel, etc., used ..	£ 27,374	£ 24,238	£ 4,274	£ 2,325	(a)	(a)	£ 59,913
Value of materials used ..	£ 4,316,154	£ 3,676,256	£ 514,901	£ 172,775	(a)	(a)	£ 8,915,340
Total value of output ..	£ 6,891,721	£ 6,285,680	£ 967,909	£ 356,772	(a)	(a)	£ 14,952,587
Value of production ..	£ 2,548,193	£ 2,585,186	£ 448,734	£ 181,672	(a)	(a)	£ 5,977,334

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

(ii) *Total for Australia.* The following table shows the progress of the industry since 1938-39 :—

## SHIRTS, COLLARS AND UNDERCLOTHING : AUSTRALIA.

Items.	1938-39.	1945-46.	1946-47.	1947-48.	1948-49.	1949-50.
Number of factories ..	283	347	376	404	410	397
Number of persons employed ..	11,081	9,902	11,184	11,880	12,760	12,545
Value of land and buildings ..	£ 945,972	£ 1,310,863	£ 1,425,838	£ 1,631,574	£ 1,790,278	£ 1,833,291
Value of plant and machinery ..	£ 230,579	£ 396,597	£ 468,581	£ 547,871	£ 608,311	£ 692,593
Salaries and wages paid ..	£ 1,142,855	£ 1,728,513	£ 2,252,398	£ 2,621,751	£ 3,298,978	£ 3,514,706
Value of power, fuel, etc., used ..	£ 23,639	£ 31,626	£ 40,538	£ 45,681	£ 54,908	£ 59,913
Value of materials used ..	£ 2,650,779	£ 4,445,741	£ 5,590,294	£ 7,066,187	£ 9,199,363	£ 8,915,340
Total value of output ..	£ 4,435,209	£ 7,078,821	£ 9,041,903	£ 11,465,829	£ 14,735,597	£ 14,952,587
Value of production ..	£ 1,760,791	£ 2,601,454	£ 3,411,071	£ 4,353,961	£ 5,481,326	£ 5,977,334

21. *Boot and Shoe Making.*—(i) *Boot and Shoe Factories.* The boot and shoe factories hold an important place both in regard to employment afforded and extent of output. The following table relates to 1949–50 and refers 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, *vide par.* 38.

## BOOT AND SHOE FACTORIES, 1949–50.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas. (a)	Australia.
Number of factories ..	196	235	30	20	12	17	510
Number of persons employed ..	7,779	11,329	1,619	1,520	770	163	23,180
Value of land and buildings £	874,686	1,068,787	123,668	163,410	72,199	25,251	2,328,001
Value of plant and machinery £	561,481	962,138	127,936	122,997	90,067	12,367	1,876,986
Salaries and wages paid £	2,732,956	4,285,370	526,340	549,457	262,303	53,658	8,410,084
Value of power, fuel, etc., used £	39,906	64,406	5,188	7,638	5,573	706	123,417
Value of materials used £	3,769,228	6,743,248	725,093	694,280	355,011	65,476	12,352,336
Total value of output £	7,882,385	12,887,888	1,411,604	1,356,905	691,808	137,241	24,367,831
Value of production ..	£ 4,073,251	6,080,234	681,323	654,987	331,224	71,059	11,892,078

(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 1949–50 in the following table. Particulars relating to the output of rubber boots and shoes are not included :—

## BOOT AND SHOE FACTORIES, OUTPUT, 1949–50.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
<b>QUANTITY.</b>							
Boots, shoes and sandals pairs	6,023,575	8,010,572	1,160,776	1,298,504	(a)	(a)	17,198,713
Slippers .. ..	2,821,634	4,294,827	842,188	154,207	492,206	..	8,605,062
Uppers (b) .. ..	11,097	154,098	(a)	(a)	(a)	..	167,439
<b>VALUE.</b>							
Boots, shoes and sandals £	6,737,210	9,694,992	1,137,013	1,287,631	(a)	(a)	19,462,355
Slippers .. ..	939,882	1,668,857	254,650	39,577	180,795	..	3,023,761
Uppers (b) .. ..	7,486	21,959	(a)	(a)	(a)	..	31,942

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

(b) Made for sale

(c) Not available.

22. *Flour-milling.*—(i) *Details for States.* The following table shows the position of the grain-milling industry in each State for the year 1949–50.

## FLOUR-MILLING, 1949–50.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories ..	55	38	10	30	20	8	161
Number of persons employed ..	1,712	1,272	422	498	483	154	4,541
Value of land and buildings £	1,015,621	788,881	209,005	174,874	270,604	97,671	2,556,656
Value of plant and machinery £	1,204,768	683,952	157,287	222,960	294,328	29,996	2,593,291
Salaries and wages paid £	914,655	654,780	197,448	259,007	249,118	73,661	2,348,669
Value of power, fuel, etc., used £	168,394	116,930	34,384	59,313	59,236	5,873	444,130
Value of materials used £	11,011,785	8,262,645	2,168,088	2,936,943	2,872,633	585,110	27,837,204
Total value of output £	12,900,688	9,545,894	2,596,780	3,395,458	3,431,040	688,566	32,558,426
Value of production ..	£ 1,720,509	1,166,319	394,308	399,202	499,171	97,583	4,277,092

(ii) *Production of Flour and By-products.* The production of flour by the mills in each State for the years 1938-39 and 1945-46 to 1949-50 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
1946-47 ..	541,469	449,170	98,232	202,366	176,727	21,695	1,489,659
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

(a) Includes Wheatmeal for Baking.

The 1949-50 production of 1,509,023 tons of flour in Australia was valued at £24,478,856. In addition, 590,131 tons of bran and pollard, valued at £6,306,905, were made. The quantity of wheat ground was 71,891,045 bushels.

23. *Bakeries.*—Information regarding establishments in which the manufacture of bread, cakes, etc., was carried on in the year 1949-50 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 in § 1, par. 6, page 1086. For that reason the table does not give complete details of the industry, as a large number of bakehouses not coming within the definition are excluded. This is true of all other industries covered by the statistics of manufacturing production, but, in view of the omission of such a large number of establishments in this instance, special mention is deemed necessary.

### BAKERIES (INCLUDING CAKES AND PASTRY), 1949-50.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Taa.(a)	Australia.
Number of factories ..	1,144	897	435	194	266	128	3,064
Number of persons employed ..	6,864	4,846	2,568	1,216	1,945	1,488	17,925
Value of land and buildings £	3,936,949	2,607,930	783,796	551,654	418,945	517,386	8,816,712
Value of plant and machinery £	1,402,044	1,015,647	382,627	338,253	191,022	305,829	3,635,422
Salaries and wages paid £	2,323,372	1,616,564	740,039	435,187	272,558	503,135	5,890,855
Value of power, fuel, etc., used £	371,446	246,488	117,850	71,446	47,069	62,973	927,272
Value of materials used £	6,883,183	4,749,205	2,396,045	1,306,108	897,080	2,174,230	18,405,851
Total value of output £	12,285,863	8,583,092	4,306,032	2,250,252	1,543,159	3,342,078	32,310,476
Value of production ..	5,031,234	3,587,399	1,792,137	872,698	599,010	1,104,875	12,987,353

(a) Includes confectionery.

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 two tables refer to the quantities treated during the years ended 30th June, irrespective of the season in which the cane was grown; consequently the figures relating to cane crushed and sugar produced may differ slightly from those given in Chapter XX.—Agricultural Production, which relate to harvest years.

(ii) *Details for New South Wales.* The following table shows details of the operations of sugar mills in New South Wales for the years 1938-39, and 1945-46 to 1949-50:—

## SUGAR-MILLS: NEW SOUTH WALES.

Items.	1938-39.	1945-46.	1946-47.	1947-48.	1948-49.	1949-50.
Number of factories ..	3	3	3	3	3	3
Number of persons employed ..	212	283	297	236	223	227
Cane crushed .. tons	337,038	166,069	309,655	267,261	273,974	330,740
Raw sugar produced (94 net titre) .. tons	45,106	21,220	39,768	33,560	33,003	40,706
Molasses produced .. gals.	1,489,090	1,110,000	1,281,920	(a)	1,348,480	1,031,200

(a) Not available for publication.

(iii) *Details for Queensland.* Particulars relating to the operations of sugar-mills in Queensland are shown in the following table for the years 1938-39 and 1945-46 to 1949-50. Particulars of the distribution of molasses as recorded by the mills are also shown.

## SUGAR-MILLS: QUEENSLAND.

Items.	1938-39.	1945-46.	1946-47.	1947-48.	1948-49.	1949-50.
Number of factories ..	33	32	31	32	32	32
Number of persons employed ..	4,419	4,665	4,205	4,762	5,531	5,898
Cane crushed .. tons	5,432,193	4,551,971	3,717,330	4,150,986	6,707,530	6,518,006
Raw sugar produced (94 net titre) .. tons	775,064	644,661	512,086	571,694	910,049	896,413
Molasses—						
Sold to distillers and others .. gals.	8,275,887	9,380,679	10,691,581	8,256,892	18,233,153	17,595,388
Used as fodder ..	4,237,196	4,675,909	6,932,902	5,320,970	5,845,585	5,563,273
Used as manure ..	3,293,543	3,074,755	2,899,167	3,358,155	5,282,501	7,517,311
Run to waste ..	498,926	59,902	63,466	15,035	167,537	283,315
Burnt as fuel ..	3,748,590	1,748,299	954,970	1,427,775	1,677,174	1,490,063
Sold or used for other purposes .. gals.	232,049	423,085	241,045	312,930	402,485	726,684
Total molasses disposed of ..	20,286,191	19,353,629	21,783,131	18,891,757	31,608,435	33,176,034

25. *Sugar Refineries.*—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 1949-50 there were two sugar refineries in the States of Victoria and Queensland, and one in each of the States of New South Wales, South Australia and Western Australia. The quantity of raw sugar treated amounted to 440,871 tons, for a yield of 422,675 tons of refined sugar, valued at £16,232,309.

26. *Confectionery Factories.*—(i) *Details for each State.* The figures for 1949-50 are shown hereunder:—

## CONFECTIONERY FACTORIES, 1949-50.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia. (b)
Number of factories ..	104	103	25	24	11	(a)	267
Number of persons employed ..	3,335	3,468	422	430	409	(a)	8,064
Value of land and buildings .. £	1,005,494	701,735	114,680	164,517	84,912	(a)	2,071,338
Value of plant and machinery .. £	876,410	996,192	65,628	70,970	77,595	(a)	2,086,795
Salaries and wages paid .. £	1,279,842	1,344,346	109,404	127,278	113,084	(a)	2,973,954
Value of power, fuel, etc., used .. £	116,104	116,374	7,285	12,501	10,531	(a)	262,995
Value of materials used .. £	4,611,796	3,974,267	314,700	285,728	385,237	(a)	9,571,107
Total value of output .. £	7,794,968	6,974,528	562,985	501,846	642,337	(a)	16,474,664
Value of production .. £	3,067,068	2,881,687	241,600	203,617	246,590	(a)	6,640,562

(a) Not available for publication.

(b) Excludes Tasmania.

(ii) *Total for Australia, excluding Tasmania.* Particulars of the confectionery industry during the last five years are compared with 1938-39 in the following table. Confectionery establishments in Tasmania have been combined with bakeries in order to conceal confidential information. Production in Australia is more than sufficient to supply local requirements.

**CONFECTIONERY FACTORIES(a) : AUSTRALIA.**

Items.	1938-39.	1945-46.	1946-47.	1947-48.	1948-49.	1949-50.
Number of factories ..	148	198	237	242	263	267
Number of persons employed ..	7,256	5,965	6,574	7,061	7,505	8,064
Value of land and buildings £	1,423,406	1,556,321	1,640,081	1,709,572	1,906,456	2,071,338
Value of plant and machinery £	1,363,619	1,142,484	1,295,007	1,393,106	1,628,929	2,086,795
Salaries and wages paid £	1,040,984	1,389,479	1,660,411	1,978,030	2,396,197	2,973,954
Value of power, fuel, etc., used £	106,869	138,512	160,280	179,635	215,012	262,995
Value of materials used £	3,101,955	4,668,928	5,436,640	6,624,193	8,556,054	9,571,107
Total value of output £	5,627,247	8,121,623	9,281,800	11,128,404	14,456,903	16,474,664
Value of production .. £	2,418,423	3,314,183	3,684,880	4,324,576	5,685,837	6,640,562

(a) Excludes Tasmania.

**27. Jam, Fruit and Vegetable Canning, Pickles, Sauces, Vinegar Factories.—**  
 (i) *Details for each State.* The following table shows particulars of factories included in this class for 1949-50 :—

**JAM, FRUIT AND VEGETABLE CANNING, PICKLES, ETC., FACTORIES, 1949-50.**

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories ..	70	59	19	16	12	21	197
Number of persons employed ..	3,221	4,914	1,307	1,141	183	1,334	12,000
Value of land and buildings £	1,045,182	1,416,487	303,204	310,381	68,044	346,247	3,490,145
Value of plant and machinery £	894,320	1,427,070	301,517	214,901	54,253	226,098	3,118,159
Salaries and wages paid £	1,372,409	2,059,358	477,703	415,286	61,581	514,097	4,900,934
Value of power, fuel, etc., used £	123,933	188,134	28,919	32,224	4,481	37,371	415,062
Value of materials used £	4,741,991	7,749,452	2,207,851	1,101,210	150,738	1,529,771	17,481,013
Total value of output £	7,137,136	11,644,558	3,179,001	1,732,953	262,550	2,314,137	26,270,335
Value of production .. £	2,271,212	3,706,972	942,231	599,519	107,331	746,995	8,374,260

(ii) *Total for Australia.* Particulars of these establishments in Australia for the five years 1945-46 to 1949-50 compared with 1938-39 are shown hereunder :—

**JAM, FRUIT AND VEGETABLE CANNING, PICKLES, ETC., FACTORIES : AUSTRALIA.**

Items.	1938-39.	1945-46.	1946-47.	1947-48.	1948-49.	1949-50.
Number of factories ..	123	157	170	177	182	197
Number of persons employed ..	6,476	11,403	10,700	11,061	11,447	12,200
Value of land and buildings £	1,382,150	2,183,654	2,406,588	2,761,990	3,050,749	3,490,145
Value of plant and machinery £	720,639	1,629,979	1,870,378	2,332,675	2,628,491	3,118,159
Salaries and wages paid £	1,148,991	2,947,366	3,018,713	3,652,793	4,147,192	4,900,934
Value of power, fuel, etc., used £	97,521	260,079	252,046	284,246	324,895	415,062
Value of materials used £	4,799,515	12,325,758	12,224,225	14,475,402	14,761,507	17,481,013
Total value of output £	7,230,914	17,664,531	18,291,803	21,588,403	22,134,495	26,270,335
Value of production .. £	2,333,878	5,078,694	5,815,532	6,828,755	7,048,093	8,374,260

During the 1939-45 War, production of jams expanded greatly and a high level of output of 171 million lb. was attained in 1943-44. Production afterwards receded, but attained a new record of 198.5 million lb. in 1947-48. It dropped to 134.6 million lb. in 1949-50. The peak output of fruit preserved occurred in 1949-50 with 208.4 million lb., compared with the previous highest level of 189.1 million lb. attained in 1947-48.



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 to 70,583,000 lb. in 1949-50.

(iii) *Production.* The following table shows the total quantity and value of jams, pickles, sauces and other items manufactured in each State in 1949-50:—

**JAMS, PRESERVED FRUIT AND VEGETABLES, PICKLES AND SAUCES : OUTPUT, 1949-50.**

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
<b>QUANTITY.</b>							
Jams .. .. '000 lb.	34,549	(a)71,008	16,121	11,461	1,438	(b)	134,577
Fruit Pulp— Consumed in own works .. cwt.	35,763	25,990	(c)	10,100	(c)	16,080	92,343
For sale or addition to stock .. cwt.	23,718	127,416	11,151	1,607	1,147	117,362	282,401
Tomato Pulp— Consumed in own works .. cwt.	33,284	138,393	(c)	26,424	10,349	(c)	210,915
For sale or addition to stock .. cwt.	27,592	337,690	..	(c)	12,019	(c)	391,650
Fruit, preserved in liquid .. '000 lb.	31,748	97,486	37,366	17,724	343	23,657	208,384
Vegetables, preserved in liquid .. '000 lb.	32,265	27,845	3,045	3,100	335	4,153	70,583
Pickles .. .. '000 pints	3,828	2,765	(c)	2,297	348	(c)	9,428
Sauces .. .. " "	12,221	14,289	1,625	2,974	(c)	(c)	32,300

**VALUE (£).**

Jams .. .. ..	1,363,641	2,655,936	703,733	434,388	76,396	(b)	5,234,094
Fruit, preserved in liquid ..	1,274,010	3,314,385	1,886,761	645,712	10,316	878,156	8,009,340
Vegetables, preserved in liquid .. ..	1,721,030	1,406,763	118,755	101,785	31,734	252,122	3,632,189
Pickles .. .. ..	303,375	176,491	(c)	181,358	18,508	(c)	695,237
Sauces .. .. ..	1,071,024	927,152	78,721	174,884	(c)	(c)	2,316,024

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

28. *Bacon-curing Factories.*—(i) *Details for each State.* The table hereunder shows particulars of factories engaged in bacon-curing in each State for 1949-50:—

**BACON-CURING FACTORIES, 1949-50.**

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories .. ..	35	17	8	12	4	10	86
Number of persons employed ..	743	665	837	315	273	74	2,907
Value of land and buildings £	366,035	222,683	268,295	139,967	51,563	30,086	1,078,629
Value of plant and machinery £	153,967	110,722	150,225	78,002	35,309	8,820	537,045
Salaries and wages paid £	339,187	306,253	391,223	141,528	109,896	30,317	1,318,404
Value of power, fuel, etc., used £	41,001	36,986	38,802	32,428	16,851	3,913	169,981
Value of materials used £	2,983,694	2,854,592	3,755,686	1,272,130	1,279,896	371,743	12,317,741
Total value of output £	3,825,675	3,315,312	4,342,632	1,491,263	1,562,557	433,031	14,970,470
Value of production .. .. £	800,980	423,734	548,144	186,705	263,810	57,375	2,282,748

(ii) *Quantity and Value of Production.* The number of pigs cured and the quantity and value of production of factories in each State for 1949-50 are shown in the following table :—

**BACON-CURING FACTORIES : PIGS CURED AND PRODUCTION, 1949-50.**

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
<b>PIGS CURED.</b>							
Pigs cured on own account—							
To finished Bacon ..	225,064	172,692 (a)	214,811 39,946	75,700 ..	77,479	15,071 (a)	830,132
To green Bacon ..							
Pigs cured on commission ..	29,034	1,411 (a)		249	(a)	(a)	31,766
<b>Total ..</b>	<b>254,098</b>	<b>(a)</b>	<b>(a)</b>	<b>75,949</b>	<b>(a)</b>	<b>(a)</b>	<b>861,898</b>
<b>PRODUCTS (TONS).</b>							
Bacon and ham(b) ..	12,892	9,704	9,980	3,089	3,542	947	40,154
Lard(b) ..	535	455	900	167	250	66	2,373
<b>VALUE (£).</b>							
Bacon and ham (b) ..	2,551,439	2,356,512	2,279,096	884,003	828,085	221,558	9,120,693
Lard(b) ..	45,801	41,711	94,381	11,904	20,426	4,761	219,044

(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 Milk Factories.**—(i) *Details for each State.* The following table shows particulars of butter, cheese and condensed milk factories in each State for 1949-50 :—

**BUTTER, CHEESE AND CONDENSED MILK FACTORIES, 1949-50.**

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories ..	99	144	95	45	18	27	428
Number of persons employed ..	2,228	4,920	1,657	936	367	361	10,469
Value of land and buildings £	1,138,656	1,888,358	859,067	343,434	139,550	192,333	4,561,898
Value of plant and machinery £	1,490,158	2,311,347	991,255	327,878	207,146	219,442	5,547,226
Salaries and wages paid £	1,048,471	2,463,922	711,429	412,971	156,256	148,276	4,941,325
Value of power, fuel, etc., used £	331,874	684,966	149,399	90,573	43,210	40,330	1,340,352
Value of materials used £	11,720,782	26,187,960	15,314,296	3,781,480	2,015,185	1,742,682	60,761,785
Total value of output £	13,644,594	30,954,124	16,681,163	4,517,995	2,376,685	2,026,843	70,201,404
Value of production ..	£ 1,591,938	£ 4,081,198	£ 1,217,468	£ 645,942	£ 318,290	£ 244,431	£ 8,099,267

(ii) *Total for Australia.* The progress of industries included in this group during the five years 1945-46 to 1949-50 is compared with 1938-39 in the following table :—

**BUTTER, CHEESE AND CONDENSED MILK FACTORIES : AUSTRALIA.**

Items.	1938-39.	1945-46.	1946-47.	1947-48.	1948-49.	1949-50.
Number of factories ..	523	462	460	449	434	428
Number of persons employed ..	6,851	8,896	9,223	9,042	10,016	10,469
Value of land and buildings £	2,880,323	3,506,020	3,689,495	4,072,933	4,235,559	4,561,898
Value of plant and machinery £	3,066,840	3,597,366	3,690,273	4,156,415	4,678,802	5,547,226
Salaries and wages paid £	1,569,531	2,737,217	3,014,595	3,578,020	4,237,381	4,941,325
Value of power, fuel, etc., used £	389,501	755,755	781,736	873,999	1,070,074	1,340,352
Value of materials used £	29,161,983	34,990,910	35,019,349	44,419,318	52,837,132	60,761,785
Total value of output £	33,094,831	40,771,127	42,134,803	52,402,951	61,242,405	70,201,404
Value of production ..	£ 3,543,367	£ 5,024,462	£ 5,733,518	£ 7,109,634	£ 7,355,259	£ 8,099,267

(iii) *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 1949-50. These details are restricted to factory production and therefore exclude farm output.

## BUTTER, CHEESE AND CONDENSED MILK FACTORIES : PRODUCTION, 1949-50.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
<b>MILK USED ('000 GALLONS).</b>							
For the manufacture of—							
Butter .. .. .	171,124	305,513	219,798	35,997	31,152	25,630	789,214
Cheese .. .. .	6,334	45,331	19,876	22,716	1,534	921	96,712
Condensed, Dried and other Milk Products (incl. Ice Cream)(b) ..	24,525	62,146	(a)	(a)	(a)	(a)	97,201
<b>PRODUCTS (TONS).</b>							
Butter .. .. .	36,817	62,988	48,196	8,236	6,769	5,069	168,075
Cheese .. .. .	2,827	21,193	(c) 9,050	10,587	702	418	44,777
Condensed and concentrated milk .. .. .	10,927	37,942	(a)	(a)	(a)	(a)	63,509
Powdered milk—							
Full cream .. .. .	6,302	3,866	(a)	(a)	(a)	..	11,390
Skim .. .. .	1,604	7,398	..	(a)	..	(a)	9,279
<b>VALUE (£'000).</b>							
Butter .. .. .	9,305	16,079	12,062	2,087	1,744	1,300	42,577
Cheese .. .. .	457	3,278	(c) 1,267	1,497	111	57	6,667
Condensed and concentrated milk .. .. .	738	3,832	(a)	(a)	(a)	(a)	5,984
Powdered milk—							
Full cream .. .. .	1,270	585	(a)	(a)	(a)	..	2,045
Skim .. .. .	121	593	..	(a)	..	(a)	731

(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 172 tons of cheese valued at £23,126, 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 Works.**—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 WORKS, 1949-50.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories .. .. .	8	18	20	16	17	7	86
Number of persons employed ..	665	1,582	5,279	304	507	215	8,552
Value of land and buildings .. £	130,633	441,242	1,732,369	98,131	533,655	79,370	3,015,396
Value of plant and machinery .. £	176,710	258,929	880,851	59,521	529,938	63,683	1,969,632
Salaries and wages paid .. .. .	274,317	785,145	2,637,109	110,063	275,465	83,314	4,165,413
Value of power, fuel, etc., used .. £	34,537	82,717	374,399	11,084	42,898	4,823	550,458
Value of materials used .. .. .	1,139,134	3,498,009	16,835,144	548,090	1,348,625	270,324	23,640,326
Total value of output .. .. .	1,735,941	5,347,787	21,170,342	853,450	1,860,915	422,163	31,390,418
Value of production .. .. .	562,170	1,766,981	3,959,799	294,276	469,392	147,016	7,199,634

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 for each State.* The following table gives particulars of breweries in each State for the year 1949-50. It should be noted, however, that the data shown below 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, 1949-50.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories ..	6	7	6	5	4	2	30
Number of persons employed ..	1,493	1,885	582	614	(a)	(a)	5,258
Value of land and buildings £	1,299,341	756,370	650,724	262,484	(a)	(a)	3,507,166
Value of plant and machinery £	762,746	1,283,068	557,181	535,819	(a)	(a)	3,622,860
Salaries and wages paid £	796,172	1,088,757	284,353	343,208	(a)	(a)	2,896,261
Value of power, fuel, etc., used £	278,142	169,682	69,435	79,297	(a)	(a)	704,339
Value of materials used £	2,226,361	2,625,705	611,755	809,820	(a)	(a)	7,583,454
Total value of output (b) £	5,300,803	4,826,651	1,549,856	1,530,456	(a)	(a)	15,850,582
Value of production ..	£ 2,796,300	2,031,264	868,666	641,339	(a)	(a)	7,562,789

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

(ii) *Total for Australia.* The next table shows the extent of this industry for 1938-39 and the five years 1945-46 to 1949-50:—

BREWERIES : AUSTRALIA.

Items.	1938-39.	1945-46	1946-47.	1947-48.	1948-49.	1949-50.
Number of factories ..	34	33	33	32	32	30
Number of persons employed ..	3,698	4,121	4,516	4,677	5,007	5,258
Value of land and buildings £	2,801,147	3,185,582	3,215,403	3,241,603	3,328,699	3,507,166
Value of plant and machinery £	2,737,042	2,484,442	2,617,866	2,795,685	3,203,682	3,622,860
Salaries and wages paid £	1,215,473	1,586,366	1,805,196	2,029,578	2,489,100	2,896,261
Value of power, fuel, etc., used £	251,286	351,184	425,596	452,699	570,632	704,339
Value of materials used £	3,406,572	4,255,684	4,998,158	5,108,560	6,212,981	7,583,454
Total value of output	9,030,309	10,476,340	12,267,499	11,954,243	13,526,477	15,850,582
Value of production	£ 5,372,451	5,869,472	6,843,745	6,392,984	6,742,864	7,562,789

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. Production rose to 154 million gallons in 1949-50 and to 173 million gallons in 1950-51.

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 increased to 18.23 gallons in 1949-50 and to 19.73 gallons in 1950-51.

(iii) *Materials Used and Production.* The table below shows the quantities of raw materials used and the quantity and value of ale, stout and beer brewed in each State during 1949-50:—

BREWERIES : MATERIALS USED AND PRODUCTION, 1949-50.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
<b>RAW MATERIALS USED.</b>							
Malt .. bushels	1,587,665	1,550,126	472,435	(a)	554,651	(a)	4,801,636
Hops .. lb.	1,321,337	1,060,133	342,689	(a)	337,088	(a)	3,583,623
Sugar .. cwt.	236,640	176,800	58,060	(a)	34,560	(a)	576,380

RAW MATERIALS USED PER 1,000 GALLONS OF ALE, STOUT AND BEER PRODUCED.

Malt .. bushels	29.02	31.41	31.29	29.88	35.69	39.32	31.14
Hops .. lb.	24.15	21.48	22.70	28.24	22.09	20.82	23.24
Sugar .. cwt.	4.33	3.58	3.85	4.00	2.26	2.21	3.74

ALE, STOUT AND BEER BREWED.

Quantity .. gallons	54,704,328	49,350,786	15,099,167	(a)	15,260,125	(a)	154,188,627
Value (b) .. £	5,213,262	4,786,111	1,544,662	(a)	1,974,077	(a)	15,546,310

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

32. **Distilleries.**—Distilleries are located in all the States except Tasmania. The following table, which has been compiled from returns of the Excise Branch of the Department of Trade and Customs, shows the materials used in distilleries in Australia and the quantity of spirits distilled therefrom for the years 1945-46 to 1949-50 compared with the year 1938-39.

## DISTILLERIES : AUSTRALIA.

Particulars.	Unit of Quantity.	1938-39.	1945-46.	1946-47.	1947-48.	1948-49.	1949-50.
<b>PRINCIPAL MATERIALS USED.</b>							
Barley Malt .. ..	bus.	89,528	296,002	349,070	340,000	337,211	261,443
Barley .. ..	"	80,548	208,847	263,460	172,644	187,483	182,450
Wheat .. ..	"	..	108,590	90,593	16,497	85,678	67,744
Malted Wheat .. ..	"	..	46,912	27,190	27,900	31,338	28,074
Maize .. ..	"	7,643	58,688	15,532	52,640	57,710	6,344
Molasses .. ..	cwt.	1,405,271	1,158,430	1,808,517	1,849,988	2,549,721	2,335,378
Sugar .. ..	"	..	522,982	86,433	44,655		
Sugar Syrup .. ..	"	..	240,216	100,294	91,204	45,852	..
Wine .. ..	gal.	11,364,208	15,749,146	19,804,495	18,916,227	21,814,262	20,678,189
Raisins .. ..	cwt.	19,521	14,477	47,386	36,690	27,423	46,876

## SPIRITS DISTILLED (PROOF GALLONS).

From—						
Barley and other Grain						
Malt .. ..	434,578	1,836,659	1,978,708	1,782,439	(a)	(a)
Molasses and Sugar .. ..	7,025,416	11,842,105	10,959,334	10,672,356	(a)	(a)
Wine and Wine Lees .. ..	2,249,265	2,879,030	3,440,071	3,983,384	(a)	(a)
Other .. ..	7,305	105,117	143,971	270,978	..	..
<b>Total .. ..</b>	<b>9,716,564</b>	<b>16,662,911</b>	<b>16,522,084</b>	<b>16,709,157</b>	<b>19,380,191</b>	<b>20,114,905</b>
Spirits denatured .. ..	4,553,152	8,780,290	8,288,830	7,819,271	9,838,298	11,427,706

(a) Not available separately.

33. **Tobacco, etc., Factories.**—(i) *Details for each State.* During 1949-50 there were 37 establishments in which the manufacture of tobacco, cigars or cigarettes was carried on. There are no such factories in Tasmania.

## TOBACCO, CIGAR AND CIGARETTE FACTORIES, 1949-50.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Australia.
Number of factories .. ..	14	15	6	1	1	37
Number of persons employed .. ..	2,771	2,041	(a)	(a)	(a)	5,167
Value of land and buildings £	709,045	512,064	(a)	(a)	(a)	1,275,897
Value of plant and machinery £	502,538	500,369	(a)	(a)	(a)	1,060,076
Salaries and wages paid £	1,068,637	810,782	(a)	(a)	(a)	1,992,095
Value of power, fuel, etc., used £	62,731	23,178	(a)	(a)	(a)	88,461
Value of materials used £	9,665,350	5,029,209	(a)	(a)	(a)	15,016,360
Total value of output £	11,536,427	6,927,956	(a)	(a)	(a)	18,974,086
Value of production .. ..	1,808,346	1,875,569	(a)	(a)	(a)	3,869,265

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

(ii) *Total for Australia.* This industry was among the first to be established in Australia. In 1861 New South Wales had eleven factories and Victoria one. The Australian market has for many years been largely supplied with local manufactures from the imported leaf. Imports during 1949-50 comprised—manufactured tobacco 773,772 lb., cigars 34,599 lb., and cigarettes 8,273,974 lb., and the quantities manufactured in

Australian factories were respectively 20,168,000 lb., 169,000 lb., and 10,341,000 lb. The following tables show the extent of the industry in Australia for the five years 1945-46 to 1949-50 compared with 1938-39:—

## TOBACCO, CIGAR AND CIGARETTE FACTORIES: AUSTRALIA.

Items.	1938-39.	1945-46.	1946-47.	1947-48.	1948-49.	1949-50.
Number of factories ..	30	26	31	33	37	37
Number of persons employed ..	5,544	5,255	5,641	5,470	5,219	5,167
Value of land and buildings ..	1,041,798	959,192	1,159,772	1,143,363	1,174,503	1,275,897
Value of plant and machinery ..	942,644	723,962	840,171	932,616	1,008,889	1,060,076
Salaries and wages paid ..	1,095,912	1,300,481	1,536,796	1,676,954	1,827,819	1,992,095
Value of power, fuel, etc., used ..	34,483	52,174	61,127	62,339	73,941	88,461
Value of materials used ..	7,080,574	10,602,032	13,657,489	14,492,198	13,750,779	15,016,360
Total value of output ..	9,800,413	13,042,558	16,364,165	17,915,412	17,613,106	18,974,086
Value of production ..	2,685,356	2,388,349	2,645,549	3,360,875	3,788,386	3,869,265

## LEAF USED AND PRODUCTION ('000 lb.).

Leaf used—						
Australian (stemmed) ..	4,489	4,685	3,611	2,924	3,084	3,313
Imported (stemmed) ..	16,011	18,822	23,441	23,675	22,775	24,043
Tobacco made ..	16,305	17,901	20,190	19,715	19,256	20,168
Cigars made ..	238	125	139	163	169	169
Cigarettes made ..	6,731	8,482	10,082	10,147	9,701	10,341

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 to the 1949-50 level of 3.3 million lb. In this connexion, see Chapter XX.—Agricultural Production.

34. Sawmills, etc.—(i) *Details for States.* 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 tables, together with plywood and bark mills.

## SAWMILLS, PLYWOOD AND BARK MILLS, 1949-50.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	949	576	607	84	198	367	2,781
Number of persons employed ..	9,968	6,250	7,882	1,922	3,121	2,350	31,493
Value of land and buildings ..	1,752,504	1,038,831	710,587	439,329	336,782	198,919	4,476,952
Value of plant and machinery ..	2,291,315	1,692,093	1,418,743	287,845	776,664	610,668	7,077,328
Salaries and wages paid ..	3,760,785	2,544,600	2,945,346	805,847	1,127,411	847,215	12,030,844
Value of power, fuel, etc., used ..	252,901	196,647	156,934	36,101	84,096	67,629	804,308
Value of materials used ..	10,092,366	6,106,707	4,591,696	2,815,358	1,804,228	1,609,221	27,019,576
Total value of output ..	17,079,311	10,990,699	9,309,052	4,354,528	3,756,694	3,060,691	48,550,975
Value of production ..	6,734,044	4,687,345	4,560,422	1,503,069	1,858,370	1,383,841	20,727,091

(ii) *Total for Australia.* Comparative statistics for 1938-39 and 1945-46 to 1949-50 are shown in the following table:—

## SAWMILLS, PLYWOOD AND BARK MILLS: AUSTRALIA.

Items.	1938-39.	1945-46.	1946-47.	1947-48.	1948-49.	1949-50.
Number of factories ..	1,660	1,765	1,996	2,241	2,541	2,781
Number of persons employed ..	19,104	22,591	25,723	27,811	30,067	31,493
Value of land and buildings ..	2,054,611	2,523,249	2,840,497	3,291,577	3,824,676	4,476,952
Value of plant and machinery ..	2,785,716	3,460,945	4,079,916	4,677,370	5,715,512	7,077,328
Salaries and wages paid ..	3,634,627	5,841,968	7,119,598	8,537,051	10,401,646	12,030,844
Value of power, fuel, etc., used ..	252,901	375,437	449,405	534,171	656,563	804,308
Value of materials used ..	8,522,805	12,174,016	16,001,148	19,971,233	23,428,182	27,019,576
Total value of output ..	14,537,888	21,707,972	27,889,108	34,958,061	41,590,009	48,550,975
Value of production ..	5,789,211	9,153,519	11,433,555	14,452,657	17,505,264	20,727,091

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 rose to 1,223 million super. feet in 1949-50. Further reference is made to the sawmilling industry in Chapter XXII.—Forestry.

35. Cabinet and Furniture Making and Upholstery Factories.—These industries constitute the principal manufactures in Class XI. The following table shows particulars for each State in 1949-50:—

**CABINET AND FURNITURE MAKING AND UPHOLSTERY FACTORIES, 1949-50.**

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories ..	418	454	194	107	141	65	1,379
Number of persons employed ..	5,307	4,588	2,579	1,545	1,182	574	15,775
Value of land and buildings £	1,221,910	1,239,015	458,308	285,828	254,846	107,227	3,567,134
Value of plant and machinery £	433,917	363,676	182,364	138,091	115,138	37,657	1,270,843
Salaries and wages paid £	2,152,868	1,712,404	858,420	570,000	390,406	186,936	5,871,034
Value of power, fuel, etc., used£	45,058	36,486	15,965	16,865	8,462	2,998	125,834
Value of materials used £	3,609,995	2,972,402	1,496,952	1,010,493	684,262	206,524	9,980,628
Total value of output £	7,083,022	5,912,311	2,889,525	1,921,873	1,335,778	501,733	19,644,242
Value of production ..	£ 3,427,969	2,903,423	1,376,668	894,515	643,054	292,211	9,537,870

36. Printing Works.—Printing and bookbinding works rank high in importance among the industries of Australia, and in 1949-50 afforded employment for 34,213 employees, and paid £15,169,000 in salaries and wages, while the value of output amounted to £49,664,000. The first table below gives particulars of establishments engaged in general printing in each State for 1949-50. 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, 1949-50.**

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories ..	409	427	100	65	74	17	1,092
Number of persons employed ..	8,420	7,517	2,230	1,517	1,243	563	21,490
Value of land and buildings £	2,214,323	2,070,421	390,460	314,558	271,353	87,430	5,348,551
Value of plant and machinery £	2,274,332	2,047,659	368,776	446,580	253,779	117,700	5,508,832
Salaries and wages paid £	3,610,723	3,222,725	824,460	583,256	437,249	231,370	8,909,783
Value of power, fuel, etc., used£	83,791	71,656	18,046	13,323	11,860	4,357	203,023
Value of materials used £	4,490,082	4,203,553	953,724	635,083	525,635	203,880	11,011,957
Total value of output £	10,732,746	9,567,509	2,294,001	1,572,995	1,370,171	555,672	26,093,094
Value of production ..	£ 6,158,873	5,292,300	1,322,231	924,599	832,676	347,435	14,878,114

**NEWSPAPERS AND PERIODICALS, 1949-50.**

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories ..	177	117	57	34	32	7	424
Number of persons employed ..	5,993	3,125	1,729	909	653	314	12,723
Value of land and buildings £	2,122,842	901,989	590,678	433,344	274,106	54,615	4,377,664
Value of plant and machinery £	1,989,327	1,599,025	656,110	183,875	200,143	84,036	4,602,516
Salaries and wages paid £	2,977,450	1,603,167	768,466	445,670	309,300	155,253	6,259,316
Value of power, fuel, etc., used£	108,119	48,674	32,276	15,921	15,759	4,652	225,401
Value of materials used £	5,992,361	3,434,471	1,112,749	754,954	509,240	140,212	11,943,987
Total value of output £	12,208,921	5,926,473	2,529,340	1,591,362	1,168,801	346,589	23,771,486
Value of production ..	£ 6,108,441	2,443,328	1,384,315	820,437	643,802	201,725	11,602,098

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, dropped slightly in the two succeeding years and recovered to 83,000 tons in 1949-50.

The number of factories operating in 1949-50 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 for the years 1938-39 and 1945-46 to 1949-50.

**PAPER MAKING, INCLUDING PULP MILLS : AUSTRALIA.**

Items.	1938-39.	1945-46.	1946-47.	1947-48.	1948-49.	1949-50.
Number of factories ..	7	12	12	12	14	14
Number of persons employed ..	1,961	4,705	5,078	5,260	5,991	6,160
Value of land and buildings £	849,578	1,524,787	1,659,960	1,832,994	2,526,299	3,331,186
Value of plant and machinery £	1,712,562	2,509,426	2,925,957	3,584,740	4,640,972	5,753,600
Salaries and wages paid £	466,548	1,577,146	1,933,640	2,350,435	2,881,436	3,183,481
Value of power, fuel, etc., used £	200,998	598,979	782,038	849,308	940,849	998,035
Value of materials used £	1,095,538	3,802,205	4,056,766	4,078,685	5,767,853	6,154,049
Total value of output £	2,301,531	7,417,772	8,656,231	10,258,026	12,358,136	13,733,129
Value of production ..	1,005,215	3,016,588	3,817,127	4,430,033	5,649,434	6,581,045

38. **Rubber Goods.**—The following table shows particulars of this industry for each State during 1949-50 and excludes establishments engaged primarily in the retreading and repairing of tyres.

**RUBBER GOODS, 1949-50.**

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories ..	27	36	5	8	2	..	78
Number of persons employed ..	5,221	4,327	(a)	398	(a)	..	10,514
Value of land and buildings £	771,128	1,173,510	(a)	37,063	(a)	..	2,036,163
Value of plant and machinery £	853,631	1,233,706	(a)	84,340	(a)	..	2,220,337
Salaries and wages paid £	2,789,677	2,297,523	(a)	163,832	(a)	..	5,482,283
Value of power, fuel, etc., used £	349,954	402,302	(a)	15,146	(a)	..	772,237
Value of materials used £	6,956,887	6,399,727	(a)	211,401	(a)	..	13,902,207
Total value of output £	10,498,543	10,901,885	(a)	487,615	(a)	..	22,630,489
Value of production ..	3,200,702	4,099,856	(a)	261,068	(a)	..	7,956,045

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

39. **Electric Light and Power Works.\***—(i) *Details for each State.* The increased demand for electrical energy has been responsible for considerable development in electric light and power works during recent years. Since 1938-39 the production of electric light and power has increased from 4,688 to 9,509 million kWh. in 1949-50 or by nearly 103 per cent. Particulars for the year 1949-50 are as follows:—

**ELECTRIC LIGHT AND POWER WORKS, 1949-50.**

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories ..	92	67	45	36	115	3	358
Number of persons employed ..	3,968	2,294	967	1,209	1,029	128	9,595
Value of land and buildings £	6,427,655	2,772,653	1,136,259	2,050,031	352,934	746,316	13,485,848
Value of plant and machinery £	15,788,376	14,797,107	4,108,239	4,771,414	1,731,966	4,256,434	45,453,536
Salaries and wages paid £	2,227,383	1,452,885	505,726	687,291	525,414	67,317	5,466,016
Value of power, fuel, etc., used £	6,649,678	3,347,562	2,265,444	1,698,491	1,529,818	208	15,491,201
Value of materials used £	1,171,048	345,101	354,139	139,360	146,371	24,176	2,180,195
Total value of output £	15,017,542	6,214,850	3,476,503	2,788,136	2,430,501	584,112	30,511,644
Value of production ..	7,196,816	2,522,187	856,920	950,285	754,312	559,728	12,840,248

\* See also Chapter XXV.—Electric Power Generation and Distribution—E. Statistical Summary, 1939-40 and 1949-50, pp. 1197-1200.



Particulars of the types of engines and generators installed in Electric Light and Power Works and their rated horse-power are given on page 1094.

(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
1946-47 ..	3,228,670	2,001,904	655,797	458,899	378,260	803,801	7,527,227
1947-48 ..	3,546,345	2,250,938	750,080	519,531	402,300	872,680	8,350,874
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

40. *Gas-works.*—(i) *Details for each State.* 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 1949-50 :—

**GAS-WORKS, 1949-50.**

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 ..	1,367	1,330	426	447	(a)	(a)	3,815
Value of land and buildings £	1,008,755	544,208	228,800	29,353	(a)	(a)	1,938,645
Value of plant and machinery £	3,409,687	5,210,687	917,127	1,293,500	(a)	(a)	11,655,761
Salaries and wages paid £	756,752	706,721	210,301	225,859	(a)	(a)	2,027,173
Value of power, fuel, etc., used £	724,842	56,960	16,626	3,417	(a)	(a)	844,735
Value of materials used £	3,037,438	2,610,967	548,398	585,139	(a)	(a)	7,210,936
Total value of output £	5,591,653	3,696,796	970,480	849,433	(a)	(a)	11,727,637
Value of production .. £	1,829,373	1,028,869	405,456	260,877	(a)	(a)	3,663,146

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

(ii) *Coal Used and Production.* The following table shows details for 1949-50 :—

**GAS-WORKS: COAL USED AND PRODUCTION, 1949-50.**

Particulars.	N.S.W.	Victoria.	Q’land.	S. Aust.	W. Aust.	Tas.	Australia.
<b>COAL USED.</b>							
Coal .. .. tons	870,055	608,453	195,985	121,932	(a)	(a)	1,864,630
<b>PRODUCTS.</b>							
Gas produced ’000 cubic ft.	17,845,995	10,746,793	2,700,399	2,026,177	(a)	(a)	34,897,963
Gas sold ’000 cubic ft.	15,563,585	9,445,085	2,343,534	1,781,645	(a)	(a)	30,490,856
Coke produced (b) tons	573,607	334,875	88,971	68,988	(a)	(a)	1,094,982

(a) Not available for publication; figures are included in total for Australia. (b) In addition, 1,182,773 tons of metallurgical coke were made in Coke Works in 1949-50.

Since 1938-39, when the output of gas was 21 thousand million cubic feet, production has increased each year and reached nearly 35 thousand million cubic feet in 1949-50.