CHAPTER VII.

MANUFACTURING INDUSTRY.

§ 1. General.

1. Introduction.—A complete statistical account of the growth of the manufacturing industry in Australia cannot be given owing to the fact that prior to 1906 the necessary statistics were not collected by the several States on a definite and uniform basis. A standard classification of manufacturing industries was formulated at a conference of Australian Statisticians in 1902 and adopted by all States in 1906. Figures on this basis were prepared for 1907 and subsequent years.

Prior to the federation of the Australian States in 1901, the manufacturing industry in Australia was primarily engaged in the production of goods for local use, mainly of food commodities, furniture, bricks, clothing made from imported materials, printing, the repair rather than the manufacture of machinery, and the preliminary treatment of primary products, such as wool-scouring and sawmilling.

After federation, steady expansion of the manufacturing industry resulted from the removal of interstate trade barriers and the operation of a uniform protective tariff This expansion was quickened as a result of the demands created by the 1914–18 War, the curtailment of imports, and the rapid growth of spending power within the community. New and more advanced development took place, iron and steel works and many related and subsidiary industries were established, extensive manufacture of machinery was begun, and a wide range of high-grade products—textiles, metal manufactures, electrical goods, etc.—was added to the list of commodities made in Australia.

A check was made in this expansion by the world-wide economic depression of 1929–33, but in 1933 returning general prosperity and the opportunities opened to local manufacturers by import restrictions, together with depreciation of Australian currency, gave renewed stimulus to manufacturing enterprise. As economic conditions improved, the tariff, revenue duties and primage were reduced, but without materially prejudicing the progress of local manufactures.

When war broke out in September, 1939, Australia became a major source of supply for British countries east of Suez and in meeting these demands, as well as those arising locally because of interruption of oversea importations, existing manufacturing industries expanded, and new enterprises were developed rapidly for the production of all classes of munitions, aircraft, ships, many new kinds of machinery and metal manufactures, scientific equipment, textiles, chemicals, etc. The outbreak of war with Japan, the basing of Allied armed forces in Australia, and Australian responsibilities for supplies in the South-west Pacific Area, gave added impetus to these developments, and manufacturing in Australia outstripped all previous levels.

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

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

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

3. Commonwealth Division of Industrial Development.—The functions of the Division of Industrial Development include the encouragement of industrial development, the exercising of Commonwealth responsibilities for the decentralization of industry, the promotion of industrial efficiency (especially the study of technical, production and managerial problems and the dissemination and application of new knowledge and methods), the encouragement of the development of technological institutes and the publication of studies of the structure and operation of Australian manufacturing industries. The Division was attached to the Ministry of National Development when formed in March, 1950 to plan the development of national resources and to promote decentralization and regional development in conjunction with the States, but was transferred to the Department of Trade in January, 1956.

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

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

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

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

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

GENERAL.

6. Definitions in Factory Statistics.—The statistics relating to factories have been compiled from tabulations made by the several State Statisticians from returns supplied to them annually by manufacturers in accordance with 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, or most abattoirs. It should be noted that details relating to small establishments not classified for statistical purposes as factories are not included in the figures contained in this chapter.

If a manufacturing business is conducted in conjunction with any other activity, particulars relating to the manufacturing section only are included in the statistics. Where two or more industries are conducted in the same establishment, a separate return is obtained for each industry if practicable.

Manufacturers are requested to state in their returns particulars as to the number, age, wages, etc., of their employees, the value of premises and equipment, the horse-power of machinery, the value, and in most cases the quantities, of raw materials and fuel used, and quantities and values of principal materials and articles produced. The returns obtained from manufacturers are not intended to show a complete record of the income 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 the number of persons employed. The latter, which is used in all other instances, is calculated by reducing the average number working in the factories (irrespective of period of operation) to the equivalent number working for a full year.

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

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

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

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

In the special case of Government factories and workshops, the value of output is, in most cases, estimated by adding 10 per cent. to the value of materials and fuel used and other factory costs, including salaries and wages paid. 7. Classification of Factories.—In the compilation of statistical data relating to factories in Australia, a standard classification of manufacturing industrics, 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 Bulletin *Secondary Industries*, published annually.

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

CLASSIFICATION OF FACTORIES.

MINE AND QUARRY PRODUCTS. Coke Works. Briquetting and Pulverized Coal. Carbide. Lime, Plaster and Products. Marble, Slate, etc. Cement. Asbestos Cement Sheets, etc. Other Cement Goods. Other.

-TREATMENT OF NON-METALLIFEROUS

CLASS II.—BRICKS, POTTERY, GLASS, ETC. Bricks and Tiles, Fire Bricks and Fire-clay Goods. Earthenware, China, Porcelain, Terra-cotta. Glass (other than Bottles). Glass Bottles. Other.

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

Industrial and Heavy Chemicals and Acids. Pharmaceutical and Toilet Preparations. Explosives. White Lead, Paints, Varnish. Oils, Vegetable. Oils, Mineral. Oils, Animal. Boiling Down, Tallow Refining. Soap and Candles. Chemical Fertilizers. Inks, Polishes, etc. Matches. Other.

CLASS IV.—INDUSTRIAL METALS, MACHINES, CONVEYANCES.

Smelting, Converting, Refining and Rolling of Iron and Steel. Foundries—Ferrous. Plant, Equipment and Machinery. Other Engineering Extracting and Refining of other Metals, Alloys. Electrical Machinery, Cables and Apparatus. Construction and Repair of Vehicles (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. Founding, Casting, etc. Iron and Steel Sheets. Sheet Metal Working, Pressing, and Stamping. Pipes, Tubes and Fittings—Ferrous. Wire and Wire Netting (including Nails). Stoves, Ovens and Ranges. Gas Fittings and Meters. Lead Mills.

CLASS IV.—INDUSTRIAL METALS, MACHINES, CONVEYANCES—continued. Sewing Machines. Arms, Ammunition (excluding Explosives). Wireless and Amplifying Apparatus. Other Metal Works. CLASS V .--- PRECIOUS METALS, JEWELLERY, PLATE. Jewellery. Watches and Clocks (including Repairs). Electroplating (Gold, Silver, Chromium). CLASS VI .- TEXTILES AND TEXTILE GOODS (NOT DRESS). Cotton Ginning. Cotton Spinning and Weaving. Wool—Carding, Spinning, Weaving. Hosiery and other Knitted Goods. Silk, Natural. Bayon Nylon and other Synthetic F 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.

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 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.

CLASS L-

CLASS IX .- FOOD, DRINK AND TOBACCOcontinued. 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 Casings. Arrowroot. Other. CLASS X.—SAWMILLS, JOINERY, BOXES, ETC., WOOD TURNING AND CARVING. Sawmills. Plywood and Veneer Mills. Bark Mills. Joinery. Cooperage Boxes and Cases. Basketware and Wickerware (including Sea-grass and Bamboo Furniture).

Wall and Ceiling Boards (not Plaster or Cement), Other,

CLASS X1.—FURNITURE OF WOOD, BEDDING, ETC. Billiard Tables, Cabinet and Furniture Making and Upholstery. Bedding and Mattresses (not Wire). Furnishing Drapery, etc. CLASS XI.—FURNITURE OF WOOD, BEDDING, ETC.— Continued. Picture Frames. Blinds. CLASS XII.—PAPER, STATIONERY, PRINTING, BOOKBINDING, ETC. Newspapers and Periodicals. Printing— Government. General, including Bookbinding. Manufactured Stationery. Stereotyping and Electrotyping. Process and Photo Engraving. Cardboard Boxes, Cartons and Containers. Paper Bags Paper Making. Pencils, Penholders, Chalks, Crayons.

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

CLASS XIV.—MUSICAL INSTRUMENTS. Gramophones and Gramophone Records. Pianos, Pianos-Players, Organs. Other. CLASS XV.—MISCELLANEOUS PRODUCTS. Linoleum, Leather Cloth, Oil Cloth, etc. Bone, Horn, Ivory and Shell. Plastic Moulding and Products. Brooms and Brushes. Optical Instruments and Appliances. Surgical and other Scientific Instruments and Appliances. Photographic Materials, including Developing and Printing. Toys, Games and Sports Requisites. Artificial Flowers. Other.

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:—

	1]			Value of	•	
Ycar.		Fac- tories.	Employ- ment.(a)	Salaries and Wages Paid.(b)	Materials and Fuel Used.	Output.	Pro- duction. (c) Land and Build- ings.		Plant and Ma- chinery.
1901 1911 1920-21 1930-31 1938-39 1940-41 1949-50 1950-51 1951-52 1952-53 1953-54 1954-55	,, ,, ,, ,, ,, ,, ,, ,, ,,	No. 11,143 14,455 17,113 21,751 26,941 27,300 41,596 43,147 45,844 47,740 49,576 51,056	'000. 198 312 367 339 565 650 917 969 978 933 990 1,031	£'000. (d) 27,528 62,932 62,455 106,743 137,919 385,797 491,718 611,789 635,245 705,137 781,640	1,609,839 1,637,142 1,868,431	£'000. (d) 133,022 323,993 290,799 500,420 644,795 1,645,456 2,150,835 2,634,706 2,720,004 3,095,476 3,095,476	£'000. (d) 51,259 110,434 118,310 203,417 257,914 661,532 843,872 1,024,867 1,028,262 1,227,045	£'000. (d) 32,701 60.831 112.211 130,920 144.094 259,549 302,785 359,490 414,446 483,431 555,996	£'000. (d) 31,516 68,655 124,498 143,662 161,356 285,602 336,615 410,144 493,534 580,715 698,292

FACTORIES: AUSTRALIA.

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

§ 2. Number of Factories.

1. Number of Factories in each State.—The following table shows the number of factories operating in each State in the years 1938-39 and 1949-50 to 1954-55:--

Year.		N.S.W	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.	
1938–39		 9,464	9,250	3,087	2,067	2,129	944	26,941	
1949-50		 16,346	13,231	4,494	3,046	3,023	1,456	41,596	
1950-51		 17,129	13,504	4,776	3,141	3,111	1,486	43,147	
1951-52		 18,144	14,758	4,918	3,245	3,267	1,512	45,844	
1952-53		 19.251	15,154	5,068	3,339	3,424	1,504	47,740	
1953-54		 20,199	15,533	5,199	3,577	3,523	1,545	49,576	
1954-55		 20.837	15.861	5,284	3,750	3,727	1,597	51.056	

FACTORIES: NUMBER.

2. Number of Factories in Industrial Classes.—(i) Australia. The next table shows the number of factories in Australia during 1938-39 and 1950-51 to 1954-55 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, page 237.

FACTORIES: NUMBER IN INDUSTRIAL CLASSES, AUSTRALIA.

Class of Industry.	193839.	1950–51.	1951–52.	1952-53.	1953-54.	1954–55.
I. Treatment of Non-metalliferous Mine						
and Quarry Products	564	1,235	1,316	1,276	1,280	1,303
II. Bricks, Pottery, Glass, etc	471	583	601	623	639	662
III. Chemicals, Dyes, Explosives, Paints,						
Oils, Grease	666	1,020	1,049	1,090	1,099	1,124
IV. Industrial Metals, Machines, Convey-						
ances .	7,255	13,106	14,513	15,672	16,868	17,842
V. Precious Metals, Jewellery, Plate	290	629	662	681	720	746
VI. Textiles and Textile Goods (not Dress)	611	1,190	1,246	1,270	1,336	1,356
VII. Skins and Leather (not Clothing or				-]	
Footwear)	533	761	785	778	783	810
VIII. Clothing (except Knitted)	4,314	6,684	6,989	7,036	7,260	7,370
IX. Food, Drink and Tobacco	5,202	6,865	7,033	7,248	7,379	7,433
X. Sawmills, Joinery, Boxes, etc., Wood	1					
Turning and Carving	2,822	5,165	5,546	5,790	5,769	5,845
XI. Furniture of Wood, Bedding, etc	1,149	1,936	2,052	2,157	2,180	2,200
XII. Paper, Stationery, Printing, Book-						
binding, etc	1,816	2,010	2,084	2,121	2,179	2,224
XIII. Rubber	299	411	430	446	465	495
XIV. Musical Instruments	34	66	68	69	75	79
XV. Miscellaneous Products	413	1,032	1,039	1,035	1,095	1,119
Total, Classes I, to XV.	26,439	42,693	45,413	47,292	49,127	50,608
XVI. Heat, Light and Power	502	454	431	448	449	448
Grand Total	26,941	43,147	45,844	47,740	49,576	51,056

Although not the best index of manufacturing activity, the number of factories affords some indication of the development of secondary industries. Except for the two war years 1941–42 and 1942–43, when there were decreases, the number of factories increased each year from 1931–32 to 1954–55; in the latter year the number of factories in Australia reached the record total of 51,056 or nearly 90 per cent. more than in 1938–39.

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(ii) States, 1954-55. The following table shows the number of factories in each State classified according to the nature of the industry:---

Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metallifer-							
ous Mine and Quarry Pro-	434	438	93	164	119	55	1,303
II. Bricks, Pottery, Glass, etc	328	150	54	61	51	18	662
III. Chemicals, Dyes, Explosives,	520	150	54	"			002
Paints, Oils, Grease	554	343	68	76	59	24	1,124
IV. Industrial Metals, Machines,	1			1			••••
Conveyances	7,384	5,365	1,827	1,439	1,381	446	17,842
V. Precious Metals, Jewellery,							
Plate	334	245	40	54	67	6	746
VI. Textiles and Textile Goods						10	
(not Dress)	482	741	30	47	43	13	1,356
VII. Skins and Leather (not Cloth-	200	202	57	41	33	8	810
ing or Footwear)	368 3,396	303 2,586	534	372	410	72	7,370
III. Clothing (except Knitted)	2,700	2,053	1,045	723	604	308	7,433
IX. Food, Drink and Tobacco X. Sawmills, Joinery, Boxes, etc.,	2,700	2,055	1,045	123		500	7,455
Wood Turning and Carving	2,280	1,428	837	326	487	487	5,845
XI. Furniture of Wood, Bedding,	2,200	1,420	0.57	1 320		107	5,015
etc.	780	697	309	159	171	84	2,200
XII. Paper, Stationery, Printing,							.,
Bookbinding, etc.	937	809	190	139	116	33	2,224
III. Rubber	183	143	68	52	31	18	495
IV. Musical Instruments	35	27	5	6	6		79
XV. Miscellaneous Products	518	438	52_	46_	51	14	1,119
Total Classes I. to XV	20,713	15,766	5,209	3,705	3,629	1,586	50,608
VI. Heat, Light and Power	124	95	75	45	98	11	448
Grand Total	20,837	15,861	5,284	3,750	3,727	1,597	51,056

FACTORIES: NUMBER IN INDUSTRIAL CLASSES, 1954-55.

§ 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 shown in the table below.

2. States, 1954-55.—The following table shows, for each State, the number of factories classified according to the average number of persons employed:— FACTORIES : CLASSIFICATION ACCORDING TO SIZE OF FACTORY, 1954-55.

	Size of Factory (Persons employed).			Victoria.	Q'land	S. Aust.	W. Aust.	Tasmania.	Aust.					
	NUMBER OF FACTORIES.													
Under 4	••		8,170	5,672	1,785	1,235	1,715	665	19,242					
4	••		1,770	1,250	496	371	173	154	4,214					
5 to 10	••		5,017	3,826	1,491	973	917	420	12,644					
11 to 20	••		2,714	2,206	671	540	431	173	6,735					
21 to 50			1,865	1,717	497	368	314	115	4,876					
51 to 100	••		670	600	169	138	110	40	1,727					
101 to 200	••		347	322	91	63	41	14	878					
201 to 300	••		92	107	48	22	17	4	290					
301 to 400	• •		59	50	13	15	2	5	144					
401 to 500			22	34	8	6	3	1	74					
501 to 750	••		47	44	4	7	3	2	107					
751 to 1,000	0		25	14	7	4		1	51					
Over 1,000	••		39	19	4	8	1	3	74					
Tota	1		20,837	15,861	5,284	3,750	3,727	1,597	51,056					

CHAPTER VII.---MANUFACTURING INDUSTRY.

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, 1954-55.

Size of (Persons	Size of Factory (Persons employed).			Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.				
	Average Number Employed during Period Worked.												
Under 4			15,560	11,070	3,713	2,590	3,593	1,353	37,879				
4		• •	7,080	5 000	1,984	1,484	692	616	16,856				
5 to 10			34,938	26,885	10,370	6,820	6,143	2,884	88,040				
11 to 20			39,906	32,151	9,889	7,801	6,119	2,592	98,458				
21 to 50			58,753	53,410	15,174	11,866	9,956	3,624	152,783				
51 to 100			46,917	41,620	11,808	9,646	7,664	2,819	120,474				
101 to 200			48,296	44,825	13,123	8,736	5,525	1,943	122,448				
201 to 300			22,133	25,807	11.671	5,380	4,191	977	70,159				
301 to 400			20,860	17,166	4,486	5,146	665	1,678	50,001				
401 to 500		• •	9,828	15,129	3,591	2,678	1,214	425	32,865				
501 to 750		• •	28,440	26,575	2.387	4,073	1,930	1,328	64,733				
751 to 1,000)		21,675	12,156	6,006	3,603		939	44,379				
Over 1,000	••	••	68,740	36,474	6,763	20,139	2,745	4,861	139,722				
Total	••	••	423,126	348,268	100,965	89,962	50,437	26,039	1,038,797				
Average per	Factory		20.31	21.96	19.11	23.99	13.53	16.30	20.35				

3. Australia, 1938-39 and 1949-50 to 1954-55.—In the following table, factories in Australia are classified according to the number of persons employed in conformity with the practice prior to 1945-46.

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

	<u> </u>		Est	ablishme	nts Emplo	ying on th	he Averag	e	
		20 and	under.	21 to	0 100.	101 and	upwards.	Т	otal.
	Year.	Es- tablish- ments.	Persons em- ployed.	Es- tablish- ments.	Persons em- ployed.	Es- tablish- ments.	Persons em- ployed.	Es- tablish- ments.	Persons em- ployed.
1938-39 Number	·····	21,982	129,505	4,013	170,971	946	272,022	26,941	572,498
Average ment 1949-50	per establish-		5.89		42.60		287.55		21.25
Number Average	per establish-	33,673	207,600	6,442	266,027	1,481	455,187	41,596	928,814
ment 1950-51		••	6.17		41.37		307.16	••	22.33
Number Average	per establish-	34,885	214,044	6,665	274,621	1,597	488,245	43,147	976,910
ment 1951-52			6.14		41.20		305.84		22.65
Number Average	per establish-	37,634	224,763	6,635	271,611	1,575	489,579	45,844	985,953
ment 1952–53—			5.97	••	40.94		310.84		21.51
Number Average	per establish-	40,066	230,549	6,234	257,099	1,440	453,657	47,740	941,305
ment 1953-54			5.75		41.24		315.04		19.72
Number Average	per establish-	41,631.	236,727	6,403	265,830	1,542	494,564	49,576	997,121 20.11
ment 1954–55– Number		42,835	5.69 241,233	 6,603	41.52	 1,618	520.75	 51.056	1,038,797
Average	per establish-	-2,055	5.63		41.38		324.00		20.35

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§ 4. Power Equipment in Factories.

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

In para. 2 below, 431 factories are shown in 1954-55 as using no power other than manual, the distribution of these factories among the various industries being as follows:—Fibrous Plaster and Products, 23; Galvanized Ironworking, Tinsmithing, 18; Tailoring and Ready-made Clothing, 112: Dressmaking, 14; Millinery, 7; Bakeries, 38; Cabinet and Furniture Making, 7; all other industries, 212.

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 1954-55:—

FACTORIES(a): TOTAL RATED HORSE-POWER OF ENGINES AND ELECTRIC MOTORS, 1954-55.

		Number	of Establishm	ents.(a)	Rated Horse-power of Engines and Motors.(a)			
State.		Using Power.	Others.	Total.	Ordinarily in Use.(b)	In Reserve or Idle (omitting obsolete).		
New South Wales	(20,732	20	20,752	1,696,646	302,043		
Victoria		15,752	47	15,799	1,165,011	164,280		
Queensland		5,071	154	5,225	443,365	59,398		
South Australia		3,639	69	3,708	311,534	41,237		
Western Australia		3,518	115	3,633	204,848	32,138		
Tasmania		1,562	26	1,588	210,606	32,538		
Australia	‡	50,274	431	50,705	4,032,010	631,634		

(a) Includes Gas Works but excludes Central Electric Stations. (b) Excludes motors driven by electricity generated in factories not classified as Central Electric Stations.

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

FACTORIES(a): TOTAL RATED HORSE-POWER OF ENGINES AND ELECTRIC MOTORS ORDINARILY IN USE, 1954-55.

		Stea	.m.	Intern	al Combu	stion.		Motors o Electi		
State.		Recipro- cating.	Tur- bine.	Gas.	Light Oils.	Heavy Oils.	Water.	Pur- chased.	Own Genera- tion. (c)	Total. (b)
N.S.W. Victoria Queensland S. Australia W. Australia Tasmania Australia	··· ·· ··	87,630 23,983 92,795 7,910 11,010 1,864 225,192	93,745, 49,397 38,340 10,056 10,613 11 202,162	476 2,084 3,061 286 1,499 1 7,407	41,512 24,849 12,021 5,587 10,712 9,273 103,954	34,621 17,985 16,516 11,466 12,068 809 93,465	1,241 10 242	158,946	46,739 80,695 24,124 6,470 8	311,534

(a) Includes Gas Works but excludes Central Electric Stations. (b) Excludes particulars in column (c).

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(ii) According to Type, Australia. In the following table, details of the total rated horse-power of the various types of engines in use are given for Australia for the years 1938-39, and 1949-50 to 1954-55.

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

	Ste	am.	Internal Combustion.				Motors driven by Electricity.		
Year.	Recipro- cating.	Tur- bine.	Gas.	Light Oils.	Heavy Oils.	Water.	Pur- chased.	Own Genera- tion. (c)	Total. (b)
1938-39	 268,409	84,149	32,916	17.971	55,799	1.616	1,017,912	179.890	1.478.772
1949-50	 232.047	135.217	15.035	67,986	92,151		2,421,174		
1950-51	 230.664	140,145	15.879	91.415	135,260		2,635,713		
1951-52	 232,512	149.435	13.684	122,704	160,142		2,764,321		
1952-53	 232,570	171.824	10.268	109,172	150,342		2,913,521		3.589.363
1953-54	 237,533	170.914	8.457	109,919	109.293		3,135,395		
1954-55	 225,192	202,162	7,407	103.954	93,465		3,398,135		

(a) Includes Gas Works but excludes Central Electric Stations. (b) Excludes particulars in column (c).

(iii) In Classes of Industry, 1954-55. The next table shows the total rated horsepower of engines and electric motors ordinarily in use in the various classes of industry in each State.

FACTORIES(a): TOTAL RATED HORSE-POWER OF ENGINES AND ELECTRIC MOTORS ORDINARILY IN USE(b), 1954-55.

Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metalli-							
ferous Mine and Quarry		[l I
Products	00 446	45,001	16,154	18,996	11,562	13,970	186,129
II. Bricks, Pottery, Glass, etc	46,682	31,163	7,778	8,308		1,865	
III. Chemicals, Dyes, Explosives.							
Paints, Oils, Grease		108,301	8,867	16,471	34,619	3,767	276,035
IV. Industrial Metals, Machines	000.000		00.004		40.010	46.004	1 500 000
Conveyances	828,050	343,524	92,004	140,734	48,913	46,801	1,500,026
V. Precious Metals, Jewellery Plate	4,629	6016	360	1 1 1 6	623	40	12.001
VI. Textile and Textile Goods (not		6,216	300	1,115	023	48	12,991
Dress)	54.041	92,349	5,766	7,755	2,490	5,512	167,913
VII. Skins and Leather (not Cloth		52,545	5,700	1,155	2,450	5,512	107,715
ing or Footwear)	18,954	20,501	5.617	5,315	2,557	504	53,448
VIII. Clothing (except Knitted)	1 00'000					895	
IX. Food, Drink and Tobacco	201,546		185,453		36,642	18,474	679,135
X. Sawmills, Joinery, Boxes, etc.			·				
Wood Turning and Carving		119,200	89,474	30,647	43,243	37,261	491,644
XI. Furniture of Wood, Bedding							
etc	17,907	17,874	7,982	6,424	4,283	1,765	56,235
XII. Paper, Stationery, Printing	EC ASO	00.000	0.674	14.002	4 000	70 007	1 261 000
Bookbinding, etc.	1 46 004		8,574		4,992 632	78,897 324	
VIV Martin I fast	5 434		7,816 45			324	3,003
VV Mean Harris David and	20,074						
Av. Miscellaneous Products	20,074	21,405		1,040			
Total, Classes I. to XV	1 677,860	1,156,173	441,090	309,400	203,603	210,495	3,998,621
XVI. Gas Works	18,786	8,838	2,275	2,134	1,245	111	33,389
Grand Total	1,696,646	1,165,011	443,365	311,534	204,848	210,606	4,032,010

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

4. Capacity of Engines and Generators installed in Central Electric Stations.—(i) According to Type, Australia. Particulars of the type and the capacity of engines and generators installed in Central Electric Stations in Australia in 1954-55 are given in the following table:—

CENTRAL ELECTRIC STATIONS: POWER EQUIPMENT, AUSTRALIA, 1954-55.

1

		Cap	acity of E	ngines ar	d Genera	tors.		
Particulars.	St	eam.	Intern	al Combi	1			
Engines installed Rated H.P.	Recipro- cating.	Turbine.	Gas.	Light Oils.	Heavy Oils.	Water.	Total.	
Engines installed Rated H.P.	7,226	4,255,372	14,524	11,383	347,235	793,738	5,429,478	
Generators installed Kilowatt capacity Total installed K.W. Effective capacity "	5,085 4,725	3,126,212 2,874,229	10,188 8,188	8,092 6,007	231,756 212,526	572,505 566,375	3,953,838 3,672,050	
Horse-power equivalent.— Total installed H.P. Effective capacity "	6,816 6,333	4,190,625 3,852,846	13,657 10,976	10,847 8,052	310,664 284,887	767,432	5,300,041 4,922,308	

Note.---The number of establishments classified as Central Electric Stations in 1954-55 was 351.

(ii) States. Details of the capacity of engines and generators installed in Central Electric Stations in each State in 1954-55 are given in the next table.

CENTRAL ELECTRIC STATIONS: NUMBER AND POWER EQUIPMENT, 1954-55.

Particulars.	N.S.W.	N.S.W. Vic.		Q'land. S. Aust.		Tas.	Aust.
Central Electric Stations N	o. 85	62	59	42	94	9	351
Engines installed Rated H.	P. 2,231,954	1,319,327	576,500	(a)	323,119	(a)	5,429,478
Generators installed— Kilowatt capacity— Total installed K.V Effective capacity	W. 1,635,751 ,, 1,502,150		428,720 328,479	(a) (a)	232,407 220,616	(a) (a)	3,953,838 3,672,050
Horse-power equivalent— Total installed H. Effective capacity	P. 2,192,692	1,265,450 1,235,860	574,691 440,320	(a) (a)	311,537 295,731	(a) (a)	5,300,041 4,922,308

(a) Not available for publication.

§ 5. Employment in Factories.

1. Number Employed.—(i) General. All persons employed in the manufacturing activities of a factory, including proprietors who work in their own business and "outworkers" (see para. 4 (ii), page 215), are counted as factory employees, while those employed in selling and distributing, such as salesmen, travellers, collectors, carters employed solely on outward delivery of manufactured goods and retailing storemen, are excluded. Prior to 1945–46, the occupational grouping collected was (i) working proprietors; (ii) managers and overseers; (iii) accountants and clerks; (iv) enginedrivers and firemen; (v) workers in factory, skilled and unskilled; (vi) carters and messengers; and (vii) persons working regularly at home for the establishment. This grouping did not record separate details for technical staff (e.g., chemists, draftsmen, etc.) and supervisory staff and in 1945–46 the set-up on the collection form was amended to obtain the following groupings:—(i) Working proprietors; (ii) chemists, draftsmen and other laboratory and research staff; (iv) foremen and overseers; (v) skilled and unskilled workers; (vi) carters (excluding delivery only), messengers and persons working regularly at home.

Prior to the year 1928-29, average employment in factories was computed by dividing the sum of the number employed each week by the number of weeks worked. The figures therefore represented the average number employed over the period worked, which, for many factories, was less than a full year. Commencing with the year 1928-29, the figures represent the equivalent average number employed over a full year of fifty-two weeks. The classification of factories according to the number of persons employed (see § 3, page 207), however, is still based on the old method, but for all other purposes the average number engaged over the full year is used.

(ii) Australia. Particulars of the numbers employed, the increase in employment and the rate per cent. of such increase are given for years 1938-39 and 1949-50 to 1954-55 in the following table :---

Year.			Males.			Females.		Persons.			
		Number Em-		ase on ng Year.	Number Em-	Increase on Preceding Year. Number Per Cent.		Number Em-		ase on ng Year.	
		ployed.	Number	Number Per Cent.				ployed.	Number	Per Cent.	
1938-39 1949-50		412,591 689,347	3,989 19,386		152,515 228,152	1,957 7,996	1.30	565,106 917,499			
1950-51 1951-52	•••	726,051	36,704	5.33	242,867	14,715	6.45	968,918	51,419	5.60	
1952-53 1953-54 1954-55		723,404 758,508 788,691	-18,567 35,104 30,183	-2.50 4.85	209,857 231,034 242,391	-25,689 21,177 11,357	-10 91 10 09 4.92	933,261 989,542 1.031,082	- 44,256 56,281	6.03	

FACTORIES : EMPLOYMENT, AUSTRALIA.

Note .- Minus sign (-) indicates decrease.

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

FACTORIE	s :	EMPL	JOYN	MENT.

Year. N.S.W.		Victoria.	toria. Q'land. S. Aust. W.		W. Aust.	Tas.	Aust.
Av	erage Nu	MBER EMPL	OYED DUR	ING FULL	Year (52	WEEKS).	
	228,781	201,831	54,110	43,371	23,211	13,802	565,106
• •	382,385	303,476	88,963	78,436	40,733	23,506	917,499
• •	406,965	316,792	94,579	82,994	43,761	23,827	968,918
• •	405,994	324,143	94,349	83,907	45,097	24,027	977,517
••	380,213	310,759	93,123	80,483	45,188	23,495	933,261
• •	402,595	331,277	98,119	85,503	47,459	24.589	989,542
· ·	419,810	346,648	100,293	89,565	49,314	25,452	1,031,082
]	Percentag	E OF AUST	RALIAN TO)TAL.		
	40.48	35.72	9.58	7.67	4.11	2.44	100.00
••	41.68	33.07	9.70	8.55	4.44	2.56	100.00
• •	42.00	32.69	9.76	8.57	4.52	2.46	100.00
	41.53	33.16	9.65	8.58	4.62	2.46	100.00
	40.74	33.30	9.98	8.62	4.84	2.52	100.00
••	40.68	33.48	9.92	8.64	4.80	2.48	00.00
	40.71	33.62	9.73	8.69	4.78	2.47	100.00
-	··· ··· ··· ···	Average Nur 228,781 382,385 406,965 405,994 380,213 402,595 419,810 40.48 41.68 42.00 41.53 40.74 40.74 40.68	Average Number Empl 228,781 201,831 382,385 303,476 406,965 316,792 405,994 324,143 380,213 310,759 402,595 331,277 419,810 346,648 Percentage 40.48 35.72 41.68 33.07 42.00 32.69 40.74 33.30 40.74 33.48	Average Number Employed Durit 228,781 201,831 54,110 382,385 303,476 88,963 406,965 316,792 94,579 405,994 324,143 94,349 380,213 310,759 93,123 402,595 331,277 98,119 419,810 346,648 100,293 Percentage of Aust 40.48 35.72 9.58 41.68 33.07 9.70 42.00 32.69 9.76 40.74 33.30 9.98 40.76 33.48 9.92	Average Number Employed During Full 228,781 201,831 54,110 43,371 382,385 303,476 88,963 78,436 406,965 316,792 94,579 82,994 405,994 324,143 94,349 83,907 380,213 310,759 93,123 80,483 402,595 331,277 98,119 85,503 419,810 346,648 100,293 89,565 PERCENTAGE OF AUSTRALIAN TO 40.48 35.72 9.58 7.67 419,810 346,648 100,293 8555 PERCENTAGE OF AUSTRALIAN TO 40.48 35.72 9.58 7.67 41.63 33.07 9.70 8.55 40.32.69 9.76 8.57 41.53 33.16 9.65 8.58 <	AVERAGE NUMBER EMPLOYED DURING FULL YEAR (52 228,781 201,831 54,110 43,371 23,211 382,385 303,476 88,963 78,436 40,733 382,385 303,476 88,963 78,436 40,733 406,965 316,792 94,579 82,994 43,761 405,994 324,143 94,349 83,907 45,097 405,994 324,143 94,349 83,907 45,097 380,213 310,759 93,123 80,483 45,188 402,595 331,277 98,119 85,503 47,459 419,810 346,648 100,293 89,565 49,314 PERCENTAGE OF AUSTRALIAN TOTAL. 419,810 32,69 9,76 8,57 4,44 41.68 33.07 9.70 8.55 4.44 41.53 33.16 9.65 8.58 4.62	AVERAGE NUMBER EMPLOYED DURING FULL YEAR (52 WEEKS). 228,781 201,831 54,110 43,371 23,211 13,802 382,385 303,476 88,963 78,436 40,733 23,506 406,965 316,792 94,579 82,994 43,761 23,827 405,994 324,143 94,349 83,907 45,097 24,027 380,213 310,759 93,123 80,483 45,188 23,495 402,595 331,277 98,119 85,503 47,459 24,589 419,810 346,648 100,293 89,565 49,314 25,452 PERCENTAGE OF AUSTRALIAN TOTAL. 40.48 35.72 9.58 7.67 4.11 2.44 40.48 35.72 9.58 7.67 4.11 2.44 41.68 33.07 9.70 8.55 4.44 2.56 41.63 33

Year. N.S.W.		Victoria. Q'land. S. Au		S. Aust.	W. Aust.	Tas.	Aust.					
Per 10,000 of Population.												
1938-39		836	1,078	537	729	497	581	815				
1949-50		1,206	1,398	765	1,129	746	847	1,140				
1950-51		1,243	1,416	793	1,167	766	829	1,166				
1951-52		1,208	1,409	773	1,150	763	801	1,145				
1952-53		1,112	1,315	746	1,074	737	761	1,067				
1953–54		1,182	1,367	754	1,088	753	795	1,112				
1954-55		1,213	1,393	757	1,109	746	813	1,134				

FACTORIES : EMPLOYMENT-continued.

2. Rates of Increase, 1938-39 and 1949-50 to 1954-55—The percentage increase on the average number of persons employed in the preceding year is shown below for each State :—

FACTORIES : ANNUAL PERCENTAGE INCREASE OF PERSONS EMPLOYED.

Year.		N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
1938–39		1.74	0.02	3.82	-1.62	0.34	4.80	1.06
1949-50		1.06	3.93	7.26	3.44	6.20	4.00	3.08
1950-51	•••	6.43	4.39	6.31	5.81	7.43	1.37	5.60
1951-52		-0.24	2.32	-0.24	1.10	2.99	0.84	0.89
1952-53		-6.35	-4.13	-1.30	-4.08	0.20	-2.21	-4.53
1953-54		5.89	6.60	5.36	6.24	5.03	4.66	6.03
1954-55		4.28	4.64	2.22	4.75	3.91	3.51	4.20

NOTE .- Minus sign (-) indicates decrease.

3. Persons Employed in Classes of Industry.—(i) Australia. The following table shows the average number of persons employed in factories in each industrial class in Australia for the years 1938-39 and 1950-51 to 1954-55 :—

FACTORIES : PE	RSONS EMPLOYED	IN	INDUSTRIAL	CLASSES.	AUSTRALIA.
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Class of Industry.	1938-39	1950-51.	1951–52.	1952–53.	1953-54.	1954-55.
I. Treatment of Non-metalliferous Mine						
and Quarry Products	10,343	18,436	19,365	18,752	18,748	20.560
II. Bricks, Pottery, Glass, etc	15,709	20,449	20,912	19,571	21.708	22.549
III. Chemicals, Dyes, Explosives, Paints,	'				•	
Oils, Grease	19,816	36,323	38,248	36,139	37,988	41,324
IV. Industrial Metals, Machines, Convey-	1	1				
ances	177,677	373,798	389,252	376,398	397,713	422,124
V. Precious Metals, Jewellery, Plate	3,726	6,344	5,953	5,398	5,970	6,029
VI. Textiles and Textile Goods (not Dress)	46,082	68,280	63,548	60,087	69.482	69 046
VII. Skins and Leather (not Clothing or						
Footwear)	10,767	15.801	14,324	14,126	14.676	14,502
VIII. Clothing (except Knitted)	86,092	122,464	116,705	105.681	112,520	112.802
IX. Food, Drink and Tobacco	83,846	124,350	122,734	120,668	123,073	125.934
X. Sawmills, Joinery, Boxes, etc., Wood						
Turning and Carving	30,739	56,300	59,664	56,984	58,932	61,153
XI. Furniture of Wood, Bedding, etc.	15,287	22,818	22,156	20,353	20,975	21,342
XII Paper, Stationery, Printing, Book-						
binding, etc	39,913	55,328	56,455	53,219	56,119	59,777
XIII. Rubber	7,502	13,526	14,021	12,288	14.962	16.325
XIV. Musical Instruments	451	1.614	1,581	1,267	1,575	1,623
XV. Miscellaneous Products	7,727	19,401	18,176	17,240	19,565	19,962
Total, Classes 1, to XV.	555,677	955,232	963,094	918,171	974,006	1,015,052
XVI. Heat, Light and Power	9,429	13,686	14,423	15,090	15,536	16,030
Grand Total	565,106	968,918	977,517	933,261	989,542	1,031,082

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

Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metalli-							
ferous Mine and Quarry							
Products	8,312	6,088	1,780	1,716	1,944	720	20,560
II. Bricks, Pottery, Glass, etc	11,462	5,752	1,279	2,076	1,643	337	22,549
III. Chemicals, Dyes, Explosives,	10 474	15 410	1.675	2 0/0	1 2 2 1 5		41.22
Paints, Oils, Grease	18,434	15,418	1,675	3,068	2,315	414	41,324
IV. Industrial Metals, Machines, Conveyances	187,492	125,289	33,840	48,307	18,726	8,470	422,124
V. Precious Metals, Jewellery,	107,452	120,207	55,040	+0,507	10,720	0,470	422,12
Plate	2,265	2,785	314	388	257	20	6,029
VI. Textiles and Textile Goods							
(not Dress)	23,876	37,455	2,075	2,304	886	2,450	69,04
VII. Skins and Leather (not Cloth-		E ACO	1.322	1 110	668	. 80	14 60
ing or Footwear)	5,656 45,458	5,460 47,571	8,823	1,316 5,865	4.144	941	14,50 112,80
VIII. Clothing (except Knitted) IX. Food, Drink and Tobacco	38,940	39,496	26,309	10,615	6.496	4,078	125,93
X. Sawmills, Joinery, Boxes, etc.	30,240	37,470	20,305	10,013	0,470	4,010	123,75
Wood Turning and Carving	20,537	15,259	10,676	4,577	6,634	3,470	61,15
XI. Furniture of Wood, Bedding,						,	
etc	8,085	6,168	3,119	1,997	1,461	512	21,34
XII. Paper, Stationery, Printing,				0.000			
Bookbinding, etc.	25,040	20,061	5,104	3,787	2,355	3,430	59,77
XIII. Rubber	7,235	6,122 286	1,607	1,002	210	149	16,32
MAL ME IN THE A STATE	8,863	9,081	594	839	403	182	19,96
Total, Classes I. to XV.	412,890	342,291	98,558	87,891	48,169	25,253	1,015,05
				1,674		199	16,03
XVI. Heat, Light and Power	6,920	4,357	1,735		1,145		
Grand Total	419,810	346,648	100,293	89,565	49,314	25,452	1,031,08

FACTORIES : PERSONS EMPLOYED IN INDUSTRIAL CLASSES, 1954-55.

4. Persons Employed According to Occupational Grouping.—(i) General. In the following table, the average number of persons employed in each State during 1954-55 are classified according to their occupational grouping. As mentioned previously, persons employed in factories are now classified on a basis different from that adopted prior to 1945-46. The nature of this change is indicated in para. 1 of this section (see p. 211).

FACTORIES : PERSONS EMPLOYED—OCCU	PATIONAL GROUPING, 1954-55.
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		Average Number of Persons Employed.										
State.		orking Pro- ietors.	Manager- ial and Clerical Staff, etc.(a)	Chemists, Drafts- men, etc.	Foremen and Overseers.	Workers in Factory (Skilled and Un- skilled).	Carters (excluding Delivery only) and Messen- gers, etc. (b)	Total.				
New South Wales		5,801	47,429	5,791	17,353	331.039	2,397	419,810				
Mintente		4.053	36,262	4.590	14,862	274,741	2,140	346,648				
Oueensland		4.646	9,375	895	3,583	81,158	636	100,293				
South Australia		2,718	10,292	1,303	3,907	70,926	419	89,565				
Western Australia		2,634	3,922	373	1,958	40,323	104	49,314				
Tasmania		994	2,448	408	1,124	20,370	108	25,452				
Total Males	3	6,397	67,912	12,333	39,686	627,674	4,689	788,691				
Total Females		4.449	41,816	1,027	3,101	190,883	1,115	242,391				
Total Persons	4	0,846	109,728	13,360	42,787	818,557	5,804	1,031,082				

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

(ii) Outworkers. The term "outworker" or "homeworker" has acquired a special meaning in connexion with manufacturing industries, and embraces only persons to whom work is given out by factories to be done at home. Owing to the amended employment groupings adopted in 1945-46, 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 and 1950-51 to 1954-55.—(i) Australia. The following table shows the number of persons (excluding working proprietors) employed in factories on the pay-day nearest to the 15th of each month for the year 1938-39 and on the last pay-day of the month in the later years.

	Month.			1938–39.	195051.	1951–52.	1952–53.	1953-54.	1954-55.				
				M	IALES.								
July				387,693	682,797	710,373	688,670	704,109	739,450				
August				389,979	685,454	711,656	682,882	707,438	741,435				
September		••		391,576	685,873	712,284	680,026	710,246	743,638				
October				393,977	687,498	714,424	679,901	715,338	746,139				
November		••	• •	395,192	692,615	716,300	680,398	719,230	750,285				
December	••		••	394,438	690,565	708,848	678,174	716,202	747,230				
January				385,742	692,678	710,357	680,298	722,277	750,823				
February				392,056	694,602	709,453	689,012	727,754	755,456				
March	••	••	••	395,146	696,262	707,701	694,516	732,000	757,956				
April	••	••		391,005	700,154	702,571	697,202	731,923	760,139				
May	••	••	•••	393,609	702,628	696,475	698,711	734,340	761.555				
June				390,973	704,515	694,871	701.500	738,002	763,488				
				Fe	MALES.			, <u> </u>					
July		••		147,282	229,987	243,646	201,464	212,322	231,222				
August	••			149,294	232,090	244,629	200,393	214,644	232,603				
September				151,159	233,914	244,712	199,910	218,078	234,818				
October		••		152,473	236,282	245,285	201,107	222,255	236,930				
November				152,806	238,740	242,831	201,346	224,672	238,146				
December			••	151,165	237,141	237,174	199,707	224,100	236,804				
January				141,853	236,018	231,186	201,596	228,838	236,664				
February	••	••	••	151,883	242,902	229,047	209,939	232,678	242,008				
March	••	••	••	154,854	242,902	225,487	213,470	236,354	242,503				
April	••	••	••	152,614	243,011	216,845	211,725	230,334	239,460				
May	••	••	••	150,693	243,768	212,036	211,392	232,333	238,450				
June	••	••	••	148,601	243,708	207,163	211,552	232,009	238,529				
June		<u> </u>		140,001	211,200	207,105	211,001	252,007	230,323				
					RSONS.		<u> </u>						
July	••	••	••	534,975	912,784	954,019	890,143	916,431	970,672				
August	••	••	••	539,273	917,544	956,285	883,275	922,082	974,038				
September	••	••	••	542,735	919,787	956,996	879,936	928,324	978,456				
October	••	••	••	546,450	923,780	959,709	881,008	937,593	983,069				
November	••	• •	••	547,998	931,355	959,131	881,744	943,902	988,431				
December	••	••	••	545,603	927,706	946,022	877,881	940,302	984,034				
January				527,595	928,696	941,543	881,894	951,115	987,487				
February				543,939	937,504	938,500	898,951	960,432	997,464				
March				550,000	939,443	933,188	907,986	968,354	1,000,529				
April	••			543,619	943,165	919,416	908,927	966,098	999,599				
May	••	•••		544,302	946,396	908,511	910,103	966,673	1,000,005				
June	••			539,574	948,783	902,034	913,051		1,002,017				
				,- , 1					_,-,-,-,				

FACTORIES; MONTHLY EMPLOYMENT, AUSTRALIA.

(Excluding Working Proprietors.)

(ii) States. Particulars of the numbers employed in each State on the last pay-day of each month in 1954-55 are shown in the following table :--

M	onth.		N.S.W.	Vic.	Qld.	S. Aust.	W. Aust.	Tas.	Aust.
				N	TALES.				
July			297,053	234,074	80,072	69,985	38,740	19,526	739,450
August			297,765	234,785	80,341	70,242	38,779	19,523	741.43
September			298,876	236,036	80,045	70,190	38,897	19,594	743,638
October		• •	299,911	237,243	79,681	70,443	39,145	19,716	746,13
November			302,114	238,754	79,617	70,718	39,292	19,790	750,28
December	••	••	301,570	238,653	76,564	70,909	39,358	20,176	747,23
January			303,575	240,777	74,571	71.501	40,019	20,380	750,82
February	••	• •	305,038	241,061	77,044	71,483	40,494	20,336	755,450
March	••	••	305,267	242,141	77,432	71,841	40,887	20,388	757,95
April	••	• •	305,424	242,537	78,446	72,219	41,036	20,477	760,13
May	••	• •	306,266	242,461	79,660	72,012	40,924	20,232	761,55
June	••	••	306,707	242,907	81,256	71,870	40,652	20,096	763,48
		·		I	FEMALES.		<u> </u>		<u> </u>
·····			07.001	00.284	16 011		6 900	4 206	221.22
July	••	••	97,881	90,384	16,911	14,941	6,809	4,296	231,22
August	••	••	98,618	91,222	16,940	14,944	6,846	4,033	232,60
September	••	••	99,952	91,964	16,790	15,106	6,946	4,060	234,81
October	••	••	101,276	92,997	16,408	15,246	6,993	4,010	236,93
November	••	• •	101,973	93,511	16,324	15,285	7,032	4,021	238,14
December	••	••	100,618	93,076	16,321	15,717	6,850	4,222	236,81
January	••	• •	99,393	93,687	16,359	15,840	6,879	4,506	236,60
February	••	••	101,668	95,372	17,483	16,200	6,943	4,342	242,00
March	••		101,801	96,266	16,936	16,118	7,015	4,437	242,57
April	••	• •	101,008	94,256	16,708	15,725	6,993	4,770	239,46
May			101,230	93,239	16,734	15,541	6,910	4,796	. 238,45
June	••	••	101,376	93,560	16,659	15,524	6,642	4,768	238,52
			·	Рен	SONS.	·	<u>, </u>		<u>.</u>
July			394,934	324,458	96,983	84,926	45,549	23,822	970,67
August	••	••	396,383	326,007	97,281	85,186	45,625	23,822	974,03
September		••	398,828	328,000	96,835	85,296	45,843	23,654	978,45
October		•••	401.187	330,240	96,089	85,689	46,138	23,726	983,06
November	••	• •	401,187	332,265	95,941	86,003	46,324	23,720	988,43
December	••	••	402,188	331,729	92,885	86,626	46,208	24,398	984,03
occinoei	••	••			, i			-	
January	••	••	402,968	334,464	90,930	87,341	46,898	24,886	987,48
February	••		406,706	336,433	94,527	87,683	47,437	24,678	997,46
March	••	••	407,068	338,407	94,368	87,959	47,902	24,825	1,000,52
April	••		406,432	336,793	95,154	87,944	48,029	25,247	999,59
May	••		407,496	335,700	96,394	87,553	47,834	25,028	1,000,00
June	••		408,083	336,467	97,915	87,394	47,294	24,864	1,002,01

FACTORIES : MONTHLY EMPLOYMENT, 1954-55. (Excluding Working Proprietors.)

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EMPLOYMENT IN FACTORIES.

6. Distribution of Employees According to Age.—The extension of statistics of employment in factories, decided upon at the Conference of Australian Statisticians held in 1945, 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 on the last pay-day in June, 1954 and 1955 are given below :—

FACTORIES : DISTRIBUTION OF EMPLOYEES ACCORDING TO AGE, JUNE, 1954 AND 1955.

			June, 1954.		June, 1955.			
Age Group.		Males.	Females.	Persons.	Males.	Females.	Persons.	
Under 16 years		9,294	7,228	16,522	9,093	6,605	15.698	
16 years		12,874	8,945	21,819	13,137	8,547	21,684	
17 "	••	14,947	9,899	24,846	14,694	9,902	24,596	
18 "	••	14,591	9,702	24,293	15,341	9,994	25,335	
19 "	••	12,971	8,719	21,690	13,772	8,600	22,372	
20 "	••	12,426	7,807	20,233	12,838	7,710	20,548	
21 ,, and over	••	660,899	179,709	840,608	684,613	187,171	871,784	
Total	••	738,002	232,009	970,011	763,488	238,529	1,002,017	

(EXCLUDING WORKING PROPRIETORS.)

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 1950 to 1955 on the old basis.

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

In Ju		Under 1	6 Years.		under 21 ars.	21 Years	and Over.	То	tal.
	ne	No.	Per Cent.	No.	Per Cent.	No.	Per Cent.	No.	Per Cent.
				N	IALES.				
1939		16,109	4.12	76,418	19.55	298,436	76.33	390,963	100
1950		7,812	1.15	63,310	9.35	606,391	89.50	677,513	100
1951		8,219	1.17	60,913	8.64	635,383	90.19	704,515	100
1952		9,079	1.31	59,616	8.58	626,176	90.11	694,871	100
1953		9,011	1.28	64,675	9.22	627,814	89.50	701,500	100
1954		9,294	1.26	67,809	9.19	660,899	89.55	738,002	100
1955	• •	9,093	1.19	69,782	9.14	684,613	89.67	763,488	100
				Fe	MALES.				
1939	[15,497	10.43	56,273	37.87	76,831	51.70	148,601	100
1950		6,055	2.62	48,021	20.77	177,130	76.61	231,206	100
1951		6,236	2.55	46,848	19.18	191,184	78.27	244,268	100
1952		5,669	2.74	40,431	19.52	161,063	77.74	207,163	100
1953		6 874	3.25	43,180	20.41	161,497	76.34	211,551	100
1954		7,228	3.11	45,072	19.43	179,709	77.46	232,009	100
1955		6,605	2.77	44,753	18.76	187,171	78.47	238,529	100
				Pe	RSONS.				
1939		31,606	5.86	132,691	24.59	375,267	69.55	539,564	100
1950		13,867		111,331	12.25	783,521	86.22	908,719	100
1951		14,455	1.52	107,761	11.36	826,567	87.12	948,783	100
1952		14,748	1.64	100,047	11.09	787,239	87.27	902,034	100
1953		15,885	1.74	107,855	11.81	789,311	86.45	913,051	100
1954		16,522	1.70	112,881	11.64	840,608	86.66	970,011	100
1955		15,698	1.57	114,535	11.43	871,784	87.00	1,002,017	100

(EXCLUDING WORKING PROPRIETORS.)

§ 6. Sex Distribution in Factories.

1. Average Number of Males and Females Employed. The following table shows the average number of males and females employed in factories in each State for 1938-39 and 1950-51 to 1954-55 :---

State.		1938–39.	1950–51.	1951-52.	1952–53.	195354.	1954–55.
			Males.				
New South Wales		167,172	301,307	304,808	291,704	305,040	316,673
Victoria		136,218	224,919	233,699	228,724	240,698	251,675
Queensland		43,941	77,182	77,673	77,627	81,425	83,290
South Australia		35,406	66,840	68,045	67,114	70,657	73,714
Western Australia	••	18,704	36,349	37,812	38,614	40,439	42,294
Tasmania		11,150	19,454	19,934	19,621	20,249	21,045
Australia		412,591	726,051	741,971	723,404	758,508	788,691
			Females	5.			
New South Wales		61,609	105,658	101,186	88,509	97,555	103,137
Victoria		65,613	91,873	90,444	82,035	90,579	94,973
Queensland		10,169	17,397	16,676	15,496	16,694	17,003
South Australia		7,965	16,154	15,862	13,369	14,846	15,851
Western Australia		4,507	7,412	7,285	6,574	7,020	7,020
Tasmania	• •	2,652	4,373	4,093	3,874	4,340	4,407
Australia	••	152,515	242,867	235,546	209,857	231,034	242,391

FACTORIES: MALES AND FEMALES EMPLOYED.

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 1950-51 to 1954-55 :—

FACTORIES :	ANNUAL PERCENTAGE	INCREASES	OF	MALES	AND	FEMALES
	EMPI	LOYED.				

State.	1938–39.	1950-51.	1951–52.	1952–53.	1953-54.	1954-55.
		Males				
New South Wales	1.69	6.07	1.16	-4.30	4.57	3.81
Victoria	0.04	4.03	3.90	-2.13	5.24	4.56
Queensland	3.79	5.80	0.64	-0.06	4.89	2.29
South Australia	2.39	5.87	1.80	-1.37	5.28	4.33
Western Australia	-0.30	7.83	4.02	2.12	4.73	4.59
Tasmania	4.40	0.79	2.47	-1.57	3.20	3.02
Australia	0.98	5.32	2.19	-2.50	4.85	3.98
		Female	s.			
New South Wales	1 1.88	1 7.45	1 - 4.23	1 - 12.44	10.22	5.72
Victoria	0.03	5.26	- 1.56	- 9.30	10.42	4.85
Queensland	3.96	8.63	- 4.14	- 7.08	7.73	1.85
South Australia	1.98	5.56	- 1.81	-15.72	11.05	6.77
Western Australia	3.06	5.55	- 1.71	9.76	6.78	
Tasmania	6.51	4.02	- 6.40	- 5.35	12.03	1.54
Australia	1.30	6.45	- 3 01	-10.91	10.09	4.92

NOTE .--- Minus sign (-) indicates decrease.

3. Masculinity of Persons Employed in Factories.—The extent to which females are employed in the factories of Australia may perhaps be more clearly shown by giving the masculinity of persons employed in each State. The following table shows particulars for the years 1938-39 and 1949-50 to 1954-55 :—

	Year.		N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
1938-39	······································		271	208	432	445	415	420	271
1949-50			289	248	455	413	480	459	302
1950-51			285	245	444	414	490	445	299
1951-52			301	258	466	429	519	487	315
1952-53			330	279	501	502	587	506	345
1953-54			313	266	488	476	576	467	328
1954-55	••	••	307	265	490	465	602	478	325

FACTORIES : MASCULINITY(a) OF PERSONS EMPLOYED.

(a) Number of males per 100 females.

For a number of years prior to 1926–27, there were on the average 300 males employed in factories for every 100 females, but by 1932–33, as a result of the particularly severe effect of the depression on the heavier industries where males predominate in number, there were only 239 males employed to every 100 females. With the subsequent recovery of employment in the heavier industries, the proportion of males per 100 females increased to 271 in 1937–38 and 1938–39. The enlistment of men in the armed services and the expansion of industry and the consequential absorption of women brought about by the 1939–45 War caused a decrease in masculinity from 1938–39 to 1943–44. However, following the cessation of hostilities in 1945 and the return of servicemen to civilian life, the number of females employed in factories declined and masculinity increased, and in 1954–55 there were 325 males to every 100 females employed in factories.

4. Employment of Females in Particular Industries.—(i) General. The majority of females in manufacturing industries are employed in four classes, namely :—IV., Industrial Metals, Machines, etc.; VI., Textiles; VIII., Clothing; and IX., Food, Drink and Tobacco. In 1954–55, these industries accounted for 79.18 per cent. of all females in factories. In two classes only did the number of females exceed the number of males, namely, in Class VI., Textiles, where there were 135 females to every 100 males and in Class VIII., Clothing, with 236 females per 100 males. The following tables show the average number of males and females employed in each of these classes in 1954–55 :—

Class.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
	·	MALES.		· <u> </u>	·		·
IV. Industrial Metals, etc. VI. Textiles and Textile Goods	166,746	111,897	31,954	43,480	17,928	8,092	380,097
(not Dress)	9,670	16,529	710	1,140	442	941	29,432
VIII. Clothing (except Knitted)	12.815	14,725	2,596	1.839	1,263	359	33,597
IX. Food, Drink and Tobacco	27,422	29,099	22,432	7,899	5,081	2,921	94,854
All Other Classes	100,020	79,425	25,598	19,356	17,580	8,732	250,711
Total	316,673	251,675	83,290	73,714	42,294	21,045	783,691
		FEMALES	i.				· · · · · · · · · · · · · · · · · · ·
IV. Industrial Metals, etc VI. Textiles and Textile Goods	20,746	13,392	1,886	4,827	798	378	42,027
(not Dress)	14.206	20,926	1,365	1.164	444	1,509	39,614
VIII. Clothing (except Knitted)	32,643	32,846	6,227	4,026	2,881	582	79,205
IX. Food, Drink and Tobacco	11,518	10,397	3,877	2,716	1,415	1,157	31,080
All Other Classes	24,024	17,412	3,648	3,118	1,482	781	50,465
Total	103.137	94,973	17.003	15.851	7.020	4.407	242.391

MALES AND FEMALES EMPLOYED IN PARTICULAR INDUSTRIES, 1954-55.

(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.

	New South Wales.				Victoria.	.	Other States.		
Industry.	Males.	Fe- males.	Femi- ninity. (a)	Males.	Fe- males.	Femi- ninity. (a)	Males.	Fe- males. 4,016 82 2,940 477 1,969 186 144 115 159 1,625	Femi- ninity. (a)
Tailoring and Ready-made	[
Clothing	3,057	14,305	468	3,110	7,657	246	1,239	4.016	324
Waterproof and Oilskin	-,			-,	.,		-,	.,	
Clothing	114	623	546	116	272	234	14	82	586
Dressmaking, Hemstitching	229	2,148	938	1,368	7,946	581	155		1,897
Millinery	241	1,393	578	221	854	386	42	477	1,136
Shirts, Collars and Under-			l I	Į					
clothing	402	3,872	963	718	5,619	783	165		1,193
Foundation Garments	123	1,372	1,115	202	1,381	684	21	186	886
Handkerchiefs, Ties and				_					
_Scarves	169	1,030	609	75	390	520	15		960
Hats and Caps	633	701	111	265	218	82	28		411
Gloves.	107	362	338	48	238	496	33		482
Boots and Shoes	3,524	3,689	105	5,698	5,724	100	2,007		81
Boot and Shoe Repairing	1,464	76	5	687	39	6	676	39	6
Boot and Shoe Accessories	227	80	35	377	226	60	30	5	14
Umbrellas and Walking	49	104		10	50	263	16	38	238
Sticks	49	104	212	19	1 50	203	10	38	230
Dyeworks and Cleaning (in-	1		1		ł			1	
cluding Renovating and	2 420	2 464	101	1 715	1 950	108	1,610	1,921	119
Repairing)	2,420	2,454	775	1,715	1,859 373	352	n r	1 .	
Otner		434		100	373	332			•••
Total	12,815	32.643	255	14,725	32,846	223	6,057	13,716	226

FEMALES EMPLOYED IN CLOTHING INDUSTRIES, 1954-55.

(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, 1954 and 1955.—In the returns for the various States, the term "child" denotes any person under sixteen years of age. The decline in the number of children employed from the peak of 33,553 reached in June, 1940 to 15,698 in June, 1955, 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 and (iii) the high level of employment which enabled parents to keep their children at school beyond the statutory leaving age.

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

,		1939.			1954.		1955.		
State.	Males.	Females.	Persons.	Males.	Females.	Persons.	Males.	Females.	Persons.
New South Wales Victoria Queensland South Australia Western Australia Tasmania	5,759 6,167 1,790 1,296 705 392	7,084 5,005 1,334 1,053 521 500	12,843 11,172 3,124 2,349 1,226 892	2,671 3,093 1,768 819 835 108	2,257 2,527 1,198 750 430 66	4,928 5,620 2,966 1,569 1,265 174	2,579 2,908 1,754 855 876 121	1,982 2,381 1,124 723 319 76	4,561 5,289 2,878 1,578 1,195 197
Australia	16,109	15,497	31,606	9,294	7,228	16,522	9,093	6,605	15,698

FACTORIES : CHILDREN(a) EMPLOYED, JUNE.

(a) Under sixteen years of age.

3. Industries Employing Child Labour.—The distribution of children employed in factories in June, 1955 and the proportion of children employed to total employees are given in the following table according to the class of industry :—

Class of Industry.	Children 1	Employed.		nployees.	Proportion (per cent.) of Children Employed to Total Employees, (b)	
	Males.	Females.	Males.	Females.	Males.	Females.
Industrial Metals, Machines, Convey- ances Textiles and Textile Goods (not Dress) Clothing (except Knitted) Food, Drink and Tobacco Sawmills, Joinery, Boxes, etc Furniture of Wood, Bedding, etc Paper, Stationery, Printing, Bookbind- ing All other Industries	4,167 417 502 1,050 802 472 701 982	801 1,206 2,610 696 96 54 557 585	374,786 27,937 27,900 89,232 54,296 16,285 43,047 130,005	43,364 38,311 76,536 29,242 2,825 3,567 16,203 28,481	1.11 1.49 1.80 1.18 1.48 2.90 1.63 0.76	1.85 3.15 3.41 2.38 3.40 1.51 3.44 2.05
Total	9,093	6,605	763,488	238,529	1.19	2.77

FACTORIES : CHILDREN(a) EMPLOYED, BY CLASSES, AUSTRALIA, JUNE, 1955.

(a) Under sixteen years of age. (b) Excludes working proprietors.

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

§ 8. 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 their output for 1954-55 was £3,434,589,000, of which £1,940,698,000 was the value of the materials used, including containers, etc., tools replaced and repairs to plant and buildings, and £128,382,000 the value of the power, fuel and light used. The difference between the sum of the last two amounts and the value of output, namely, £1,365,509,000, represents the value of production as defined by the Conference of Statisticians at Sydney in 1925, i.e., " the value of consumable commodities produced during the year, deducting, so far as possible, the value of goods consumed in process of production." The total amount of salaries and wages paid in factories in 1954-55 was £781,640,000. This figure, which excludes amounts drawn by working proprietors, was the highest ever recorded and shows an increase of £76,503,000 or 10.85 per cent. on that for the previous year.

2. Salaries and Wages Paid.—(i) In Classes of Industry, 1954-55. The amounts of salaries and wages paid in the various classes of industry in each State are shown in the following table.

	<u> </u>			1			· · · · · ·
Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metallifer-	'						
ous Mine and Quarry Pro-				1	i		
ducts	7,436	4,910	1,291	1,421	1,512	565	17,135
II. Bricks, Pottery, Glass, etc	9,588	4,556	926	1,732	1,322	281	18,405
III. Chemicals, Dyes, Explosives,							
Paints, Oils, Grease	16,063	13,283	1,239	2,579	2,044	391	35,599
IV. Industrial Metals, Machines,	t			1			
Conveyances	. 157,520	103,847	22,956	40,896	13,587	6,485	345,291
V. Precious Metals, Jewellery							
Plate	1,532	2,019	176	266	155	10	4,158
VI. Textiles and Textile Goods							
(not Dress)	15,893	24,872	1,091	1,516	542	1,493	45,407
VII. Skins and Leather (not Cloth-							
ing or Footwear)	4,252	4,068	879	1,036	469	61	10,765
VIII. Clothing (except Knitted)	24,888	27,840	4,137	3,076	1,935	498	62,374
IX. Food, Drink and Tobacco	28,138	29,754	20,633	7,328	4,524	2,836	93,213
X. Sawmills, Joinery, Boxes, etc.,				1			
Wood Turning and Carving	14,787	10,827	6,851	3,336	4,548	2,459	42,808
XI. Furniture of Wood, Bedding,	I						
etc	5,649	4,082	1,740	1,331	850	295	13,947
XII. Paper, Stationery, Printing,	•						
Bookbinding, etc.	: 19,833	16,321	3,407	2,903	1,743	3,061	47,268
XIII. Rubber	6,609	5,429	1,110	838	155	117	14,258
XIV. Musical Instruments	984	210	22	22	17		1,255
XV. Miscellaneous Products	6,629	6,537	360	557	224	110	14,417
Total, Classes J. to XV.	319,801	258,555	66,818	68,837	33,627	18,662	766,300
XVI. Heat, Light and Power	6,814	4,195	1,482	1,536	1,111	202	15,340
Grand Total	326,615	262,750	68,300	70,373	34,738	18,864	781,640

FACTORIES: SALARIES AND WAGES PAID, 1954-55.

- 1	£	,	n	A	n		١
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(ii) Totals and Averages, 1938-39 and 1949-50 to 1954-55.—The following table shows the total amount of salaries and wages paid, and the average amount paid per employee in each State, for each of the years indicated. The figures exclude working proprietors and the amounts drawn by them :—

	Year.	N.S.W.	Vic.	QId.	S. Aust.	W. Aust.	Tas.	Aust,
		 Тот	AL AMOU	NT PAID	(£'000).	ł <u>.</u>	1	<u> </u>
1938-39		 44,606	36,027	10,887	8,169	4,574	2,480	106,743
1949-50		 162,147	130,255	34,748	33,708	15,293	9,646	385,797
1950-51		 211,339	163,207	42,837	42,940	19,658	11,737	491,718
1951-52		 263,652	202,586	51,906	53,558	25,384	14,703	611,789
1952-53		 265,910	210,878	57,591	56,546	28,344	15,976	635,245
1953-54		 293,586	236,037	63,433	63,110	31,590	17,381	705,137
1954–55	••	 326,615	262,750	68,300	70,373	34,738	18,864	781,640
		Avi	ERAGE PEI	R EMPLOY	EE (£).			
1938-39		 201.77	185.64	210.78	195.57	207.90	188.31	196.31
1949–50		 439.04	429.21	408.67	441.70	397.13	428.29	436.56
1950-51		 537.13	534.64	473.80	531.59	474.15	513.74	526.34
1951-52		 673.13	650.79	576.57	656.54	594.67	637.29	650.61
1952-53		 728.11	709.15	649.94	724.52	664.59	707.89	710.21
1953-54		 758.65	743.29	678.35	761.27	703.26	734.60	742.62
1954–55		 804.43	790 00	714 83	810.32	744.17	771.27	789.35

FACTORIES : TOTAL AND AVERAGE SALARIES AND WAGES PAID.

In comparing the figures in the preceding table, regard should be paid to the nature of certain industries which are carried on to a greater extent in some States than in others. In Victoria, for instance, a large number of hands is employed in Class VIII., Clothing, comprising a relatively high percentage of women and children. The highest average wages per employee in 1954-55 were paid in South Australia, New South Wales and Victoria, in that order.

The average earnings per employee rose annually from 1938-39 to 1943-44 when a level of £291 was attained as a result of war-time conditions. In 1944-45, the average dropped to £285 and remained at this level in 1945-46. From 1945-46, average earnings rose each year and in 1954-55 reached a record level of over £789.

(iii) Total and Average Earnings of Males and Females, 1938-39 and 1949-50 to 1954-55. Particulars for these years are given in the table on the following page.

1952-53 473.28 483.46 400.48 451.80 400.32 448.58 467.79									
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Year.		N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
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AVERAGE PER MALE EMPLOYEE (£). 1938-39 239.24 224.47 238.59 220.95 235.49 212.09 231.84 1949-50 499.33 510.86 446.87 487.39 433.41 465.46 492.20 1950-51 609.05 610.44 516.83 583.37 515.67 558.67 591.41 1951-52 756.84 736.68 625.91 716.25 643.68 687.09 725.57 1952-54 807.77 793.11 701.45 779.90 711.80 761.21 782.98 1954-55 906.61 891.40 773.47 883.13 797.80 833.05 877.84 FEMALES. TOTAL AMOUNT PAID (£'000). 1938-39 26.272 25.120 3.800 3.899 1.601 1.108 61.800 1951-52 35.308 32.284 4.967 5.154 2.038 1.401 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
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1953-54 47,837 45,464 6,825 6,811 2,906 2,061 111,904 1954-55 52,148 49,373 7,175 7,431 2,990 2,128 121,245 Average Per Female Employee (£). 1938-39 103.66 108.25 96.00 86.44 99.58 93.19 103.92 1949-50 270.27 291.34 240.93 257.31 231.57 265.37 274.12 1950-51 338.08 355.57 289.82 322.03 279.55 322.46 338.12 1951-52 473.28 434.64 400.48 451.80 400.32 448.58 467.79 1953-54 499.19 510.96 418.23 465.95 421.93 477.84 493.10 1954-55 450.66 418.23 465.95 421.93 477.84 493.10	10.00 00								
1954-55 52,148 49,373 7,175 7,431 2,990 2,128 121,245 AVERAGE PER FEMALE EMPLOYEE (\$). 1938-39 103.66 108.25 96.00 86.44 99.58 93.19 103.92 1949-50 270.27 291.34 240.93 257.31 231.57 265.37 274.12 1950-51 338.08 355.57 289.82 322.03 279.55 322.46 338.12 1951-52 428.40 436.60 354.96 405.70 351.30 404.71 422.04 1952-53 473.28 483.46 400.48 451.80 400.32 448.58 467.79 1953-54 499.19 \$10.96 418.23 465.95 421.93 477.84 493.10 1954 65 499.19 \$10.96 418.23 465.95 421.93 477.12 450.56									
AVERAGE PER FEMALE EMPLOYEE (£). 1938-39 103.66 108.25 96.00 86.44 99.58 93.19 103.92 1949-50 270.27 291.34 240.93 257.31 231.57 265.37 274.12 1950-51 338.08 355.57 289.82 322.03 279.55 322.46 338.12 1951-52 428.40 436.60 354.96 405.70 351.30 404.71 422.04 1952-53 473.28 483.46 400.48 451.80 400.32 448.58 467.79 1953-54 499.19 510.96 418.23 465.95 421.93 477.84 493.10 1954-55 450.56 418.29 453.26 450.56 421.93 477.84 493.10									
1949-50 270.27 291.34 240.93 257.31 231.57 265.37 274.12 1950-51 338.08 355.57 289.82 322.03 279.55 322.46 338.12 1951-52 428.40 436.60 354.96 405.70 351.30 404.71 422.04 1952-53 473.28 483.46 400.48 451.80 400.32 448.58 467.79 1953-54 499.19 510.96 418.23 465.95 421.93 477.84 493.10 1954 65 499.19 510.96 418.48 421.93 477.84 493.10	-		A	VERAGE PE	r Female E	MPLOYEE (£).		
1949-50 270.27 291.34 240.93 257.31 231.57 265.37 274.12 1950-51 338.08 355.57 289.82 322.03 279.55 322.46 338.12 1951-52 428.40 436.60 354.96 405.70 351.30 404.71 422.04 1952-53 473.28 483.46 400.48 451.80 400.32 448.58 467.79 1953-54 499.19 510.96 418.23 465.95 421.93 477.84 493.10 1954 65 499.19 510.96 418.48 421.93 477.84 493.10	1039 20							03 10 /	101.02
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1952-53 473.28 483.46 400.48 451.80 400.32 448.58 467.79 1953-54 499.19 510.96 418.23 465.95 421.93 477.84 493.10	1051 50								
1953-54 499.19 510.96 418.23 465.95 421.93 477.84 493.10	1952-53		473.28	483.46	400.48	451.80	400.32	448.58	467.79
<u>1954–55514.94 529.63 431.68 477.12 434.21 487.12 509.56</u>									
	1954-55		514.94	529.63	431.68	477.12	434.21	487.12	507.56

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

(iv) Managers, Clerical Staff and Other Employees. A further analysis of salaries and wages paid is given in the following table for 1954-55 and shows the amounts paid to managerial and clerical staff including salaried managers and working directors, chemists, draftsmen and other laboratory and research staff, and those paid to other employees. As previously mentioned, amounts drawn by working proprietors are excluded in all cases:-

FACTORIES: SALARIES AND WAGES PAID TO MANAGERS, CLERICAL STAFF, ETC., AND OTHER EMPLOYEES, AUSTRALIA, 1954-55.

Class of Industry.	Staff, C	s, Clerical hemists, hen, etc.	All Other	Employees.
	Males.	Females.	Males.	Females.
I. Treatment of Non-metalliferous Mine and Quarry	£'000.	£'000.	£'000.	£'000.
Products	1.936	301	14,795	103
II. Bricks, Pottery, Glass, etc.	1,454	371	15,968	612
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease	7,184		23,163	3,681
IV. Industrial Metals, Machines, Conveyances	44,961	9,507	278,388	12,435
V. Precious Metals, Jewellery, Plate	410	157	3,161	401
VI. Textiles and Textile Goods (not Dress)	3,779	1,605	21,615	18,408
VII. Skins and Leather (not Clothing or Footwear)	1,135	226	7,979	1,425
VIII. Clothing (except Knitted)	3,783	2,014	19,810	36,767
IX. Food, Drink and Tobacco	11,160	3,060	66,877	12,116
X. Sawmills, Joinery, Boxes, etc., Wood Turning and				
Carving	4,003	840	37,547	418
XI. Furniture of Wood, Bedding, etc	1,259	377	11,047	1,264
XII. Paper, Stationery, Printing, Bookbinding, etc	5,840	1,943	33,454	6,031
XIII. Rubber	1,864	411	10,564	1,419
XIV. Musical Instruments	138	61	913	143
XV. Miscellaneous Products	1,884	611	9,023	2,899
Total, Classes I. to XV		23,055	554,304	98,122
XVI. Heat, Light and Power	1,380	55	13,892	13
Grand Total	92,199	23,110	568,196	98.135
Average paid per employee	1,148.97	539.41	845.47	503.00

3. Power, Fuel and Light Used.—(i) In Classes of Industry, 1954–55. The expenditure by factories on power, fuel and light, including the value of lubricants and water, is of considerable importance; in 1954–55 it amounted to a new high level of £128,382,000, an increase of £7,924,000 as compared with the previous year and over eight times the corresponding value in 1938–39. The following table shows the value of power, fuel and light, etc., used in the different classes of industry:—

FACTORIES: VALUE OF POWER, FUEL AND LIGHT USED(a), 1954-55.

			(£'000.)					
	Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
1.	Treatment of Non-metallifer- ous Mine and Quarry Pro-				 			
	ducts	2,184	1,551	566	768	747	253	6,069
- 11	Bricks, Pottery, Glass, etc Chemicals, Dyes, Explosives,	3,176	1,903	359	556	583	153	6,730
,,,,,	Paints, Oils, Grease	3,590	2,771	207	749	931	112	8,360
	Industrial Metals, Machines, Conveyances Precious Metals, Jewellery	22,794	4,829	1,616	4,835	764	803	35,641
••	Plate	113	108	11	27	12	1	272
	Textiles and Textile Goods (not Dress)	1,401	1,789	55	154	44	125	3,568
VII.	Skins and Leather (not Cloth-						-	
VIII	ing or Footwear) Clothing (except Knitted)	402 836	403 729	62 148	116 123	54 82	3 33	1,040 1,951
1X.	Food, Drink and Tobacco Sawmills, Joinery, Boxes, etc.,	5,706	4,834	2,658	1,214	929	363	15,704
	Wood Turning and Carving Furniture of Wood, Bedding.	1,353	564	357	142	316	228	2,960
-	etc	153	84	39	36	24	6	342
XII.	Paper, Stationery, Printing,	1 1 1 1 1 1	1 200		0.04		1 010	1 2000
NIII	Bookbinding, etc.	1,128 924	1,388 834	119 127	234 92	75	1,019 16	3,963
	Musical Instruments	60	13	127	(b)	(b)		74
	Miscellaneous Products	406	372	17	51	9	3	858
	Total, Classes I. to XV.	44,226	22,172	6,342	9,097	4,588	3,118	89,543
XVI.	Heat, Light and Power	16,699	9,595	5,278	3,800	3,458	9	38,839
	Grand Total	60,925	31,767	11,620	12,897	8,046	3,127	128,382

(a) Includes value of lubricants and water. (b) Less than £500.

(ii) Values of Items, 1954-55. The following table shows the values of the various items of power, fuel and light used in factories in each State, during the year:----

FACTORIES:	VALUE OF ITEMS OF POWER, FUEL AND LIGHT USED(a), 1954–55.
	(£'000.)

Particulars.		N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia
Coal, Black ,, Brown Brown Coal Briquettes Coke Fuel Oil Fuel Oil Tar (Fuel) Electricity Gas Other (Charcoal, etc.)	•••	21,302 11,354 441 4,414 780 16,570 2,593 707	3,674 6,301 2,285 918 730 6,575 318 7,982 804 415	470 419 1,126 3 2,296 148 101	(b) 4,597 2,644 389 1,449 93 2,814 236 209	3,225 .i44 429 1,640 12 1,710 71 445	1,036 227 168 375 20 1,045 36 95	40,264 6,301 2,285 15,757 2,576 15,579 1,226 32,417 3,888 1,972
Water Lubricating Oils		1,749 1,015	1.051 714	277 350	222 244	174 196	55 70	3,528 2,589
Total	••	60,925	31,767	11,620	12,897	8.046	3,127	128,382

(a) Includes value of lubricants and water. of Leigh Creek coal (b) Includes £1,183,000, the value of 453,000 tons

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(iii) Quantities of Fuel Used, 1954-55. The following table shows the quantities of fuel used in factories in each State during the year:---

Particulars.	Unit.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Coal, Black	'000 tons	5,370	536	1,511	(a)991	603	234	9,245
"Brown	, ,,		7,829 514	••		••	••	7,829
Coke	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2,016	97	45			15	2,493
Wood	,,,	214					89	1,527
Fuel Oil	'000 gals.	64,634	105,235				4,876	
Tar (Fuel)	l ,,	33,153	6,287	97	2,241	387	478	42,643

FACTORIES: QUANTITIES OF FUEL USED, 1954-55.

(a) Includes 453,000 tons of Leigh Creek coal.

(iv) Total Value, 1938-39 and 1949-50 to 1954-55. The next table shows the amounts expended on power, fuel and light during these years:—

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

Year. N.S.W. Victoria. Q'land. S. Aust. W. Aust. Tas. Australia. 7,652 25,536 35,381 48,664 53,630 58,447 1938-39 4.000 1.423 1.018 1.169 438 1,354 15,700 ••• . . 13,695 17,371 21,990 25,626 1,423 5,119 6,295 8,286 9,624 10,655 1,018 5,942 7,267 10,409 11,806 12,500 3,184 3,759 5,173 6,175 6,972 54,830 71,682 96,629 109,337 1949-50 1950-51 ... 1,609 .. 1951-52 .. 1952-53 .. 2,107 2,476 2,804 ••• ••• 1953 -54 29,080 120,458 60.925 31,767 11,620 12,897 8,046 3,127 128,382 1954 -55

(a) Includes value of lubricants and water.

4. Value of Materials Used.—(i) In Classes of Industry, 1954-55. 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 1954-55 reached £1,940,698,000, representing 56.5 per cent. of the value of the final output (see para. 5). The following table shows the value of the materials used in various classes of industry in each State:—

FACTORIES: VALUE OF MATERIALS USED, 1954-55.

(£'000.)

		(2 0000)					
Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metallifer-		·					
ous Mine and Quarry Pro-							
ducts	22,843					1,022	
II. Bricks, Pottery, Glass, etc	8,195	4,376	606	1,683	821	218	15,899
III. Chemicals, Dyes, Explosives,						4	
Paints, Oils, Grease	70,990	63,291	6,150	9,978	14,246	1,235	165,890
IV. Industrial Metals, Machines,				04-04			
Conveyances	331,143	160,792	40,383	86,791	17,367	14,507	650,983
V. Precious Metals, Jewellery							
Plate	1,555	2,717	84	197	77	و	4,633
VI. Textiles and Textile Goods							
(not Dress)	40,395	58,862	4,324	3,683	2,679	4,681	, 114,624
VII. Skins and Leather (not Cloth-					·		
ing or Footwear)	12,665		2,662	7,324	1,285	217	
VIII. Clothing (except Knitted)	41,124		5,901	3,175	2,294	369	
IX. Food, Drink and Tobacco	150,486	157,859	132,604	32,694	26,009	13,904	513,556
X. Sawmills, Joinery, Boxes, etc.,	1						
Wood Turning and Carving	35,611	23,243	13,811	9,088	7,212	4,901	93,866
XI. Furniture of Wood, Bedding,					·		
etc	11,184	8,047	3,462	2,661	1,774	433	27,561
XII. Paper, Stationery, Printing,							
Bookbinding, etc.	39,692		5,475	4,761		5,406	
XIII. Rubber	17,000	14,499	3,066	1,411	223	162	
XIV. Musical Instruments	1,706	261	8	6	2	••	1,983
XV. Miscellaneous Products	10,256	13,066	484	852	185	65	24,908
Total, Classes I. to XV.	794,845	610,376	221,839	167,515	79,643	47,123	1,921,341
XVI. Heat, Light and Power	7,772	6,290	2,497	1,621	940	237	19,357
Grand Total	802,617	616,666	224,336	169,136	80,583	47,360	1,940,698

Ę

(ii) Total Amount, 1938-39 and 1949-50 to 1954-55. The following table shows the values of materials used in factories for these years:—

Year.	ļ	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia
1938–39		120,502	82,971	42.596	20,309	9,604	5.321	281,303
1949-50		384,467	293.528	108,682	83,277	34,750	24,390	929.094
1950-51		522,422	382.002	134,457	117.547	46,452	32,401	1,235,281
1951-52		647,291	477,617	150,427	139,198	58,652	40,025	1.513.210
1952-53		627,954	476,489	187,572	133,818	63,943	38,029	1.527,805
1953-54		721,311	548,111	211,451	152,590	72,468	42,042	1.747.973
1954-55		802,617	616,666	224,336	169,136	80,583	47,360	1,940,698

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

5. Value of Output.—(i) In Classes of Industry, 1954–55. The value of the output of factories in the various classes in each State in 1954–55 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 para. 6).

<u> </u>							
Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metallifer- ous Mine and Quarry Pro-	1						
ducts	38,202	20,682	5,846	6,863	6,333	2,300	80,226
II. Bricks, Pottery, Glass, etc	27,280	13,401	2,584	5,150	3,688	832	52,935
III. Chemicals, Dyes, Explosives,	124 647	00.100	0.005	10.704	10 700	• • • • •	
Paints, Oils, Grease IV. Industrial Metals, Machines,	124,547	99,129	9,805	16,764	19,796	2,335	272,376
Conveyances	599,636	322,848	78,590	151,469	39,388	27 662	1,219,593
V. Precious Metals, Jewellery						21,002	.,217,371
Plate	4,270	5,994	392	701	384	21	11,762
VI. Textiles and Textile Goods	60 470	104 676	C 254	c	2 750	a a a	100 000
(not Dress)	68,470	104,575	6,354	6,187	3,750	7,250	196,586
ing or Footwear)	19,611	19,390	4,151	8,928	2,136	293	54,509
VIII. Clothing (except Knitted)	82,312	89,933	12,771	7,680	5,423	1,092	199,211
IX. Food, Drink and Tobacco	220,625	219,943	173,096	46,547	36,285	19,303	715,799
X. Sawmills, Joinery, Boxes, etc.,	62.020	43.750	05.000	14 520	14.000	0.014	1
Wood Turning and Carving XI. Furniture of Wood, Bedding,	63,029	42,750	25,926	14,538	14,886	9,934	171,063
etc.	20,832	15,237	6,399	4,892	3,287	913	51,560
XII. Paper, Stationery, Printing,							\$1,500
Bookbinding, etc	77,863		11,546			14,189	187,532
XIII. Rubber	26,530		5,492			382	61,097
XIV. Musical Instruments XV. Miscellaneous Products	3,439		44	36	25 525	230	4,122
XV. Miscellaneous Products	22,398	25,319	1,046	1,833	525	230	51,351
Total, Classes I. to XV.	1,399,044	1,072,891	344,042	284,683	142,326	86,736	3,329,722
KVI. Heat, Light and Power	47,625	27,765	11,975	8,378	7,259	1,865	104,86
Grand Total	1,446,669	1,100,656	356,017	293,061	149,585	88,601	3,434,58

FACTORIES: VALUE OF OUTPUT, 1954–55.

(£'000.)

(ii) Total, 1938-39 and 1949-50 to 1954-55. The following table shows the value of output in each State during these years :---

Year.		N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
1938-39	••	218,420	152,967	63,321	35,005	19,549	11,158	500,420
1949-50		693,203	526,466	175,156	141,573	63,978	45,080	1,645,456
1950-51		923,912	675,033	216,212	192,623	84,431	58,624	2,150,835
1951-52		1.139.346	833,967	250.043	232,853	106,571	71,926	2.634,706
1952-53		1.139.326	860,147	295,405	234,813	119,310	71,003	2,720,004
1953-54		1,299,801	985,505	332,361	265,311	134,587	77,911	3.095,476
1954-55		1,446,669	1,100,656	356,017	293,061	149,585	88,601	3,434,589

FACTORIES: VALUE OF OUTPUT.

(£`000.)

6. Value of Production.—(i) In Classes of Industry, 1954–55. 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 the output".

The figure thus calculated is, however, not the net value of production. The amount of depreciation, particulars of which are shown in § 9, para, 4, was recorded as $\pounds 56,484,000$ for 1954-55. 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 1954-55 to £1,366 million to which Class IV., Industrial Metals, etc., with £533 million made the greatest contribution. The total value of production in 1954-55 showed an increase of £139 million (11.28 per cent.) over the figure for 1953-54 and £1,162 million over the value of production recorded in 1938-39.

The following table shows the value of production in 1954-55 in each State for the various classes of industry.

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Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metallifer-							
ous Mine and Quarry Pro-							
ducts	13,175	9,302				1,025	
II. Bricks, Pottery, Glass, etc	15,909	7,122	1,619	2,911	2,284	461	30,306
III. Chemicals, Dyes, Explosives,	49,967	22.067	3,448	6027	4 610	988	98,126
Paints, Oils, Grease IV. Industrial Metals, Machines,	49,90/	33,067	3,440	6,037	4,619	900	90,120
	245,699	157,227	36,591	59,843	21,257	12,352	532,969
V. Precious Metals, Jewellery,	245,099	137,227	50,591	39,043	21,257	12,332	552,909
Plate	2,602	3,169	297	477	295	17	6,857
VI. Textiles and Textile Goods		-,		{			
(not Dress)	26,674	43,924	1,975	2,350	1,027	2,444	78,394
VII. Skins and Leather (not Cloth-							
ing or Footwear)	6,544					73	16,917
VIII. Clothing (except Knitted)	40,352					690	98,417
IX. Food, Drink and Tobacco	64,433	57,250	37,834	12,639	9,347	5,036	186,539
X. Sawmills, Joinery, Boxes, etc.,				6		4 00 0	
Wood Turning and Carving	26,065	18,943	11,758	5,308	7,358	4,805	74,237
XI. Furniture of Wood, Bedding,	9,495	7.100	2,898	0.106	1 490	474	22 687
etc. XII. Paper, Stationery, Printing,	9,495	7,106	2,898	2,195	1,489	4/4	23,657
B. A.L. Alexandria	37.043	31,287	5,952	5,233	3,261	7,764	90,540
XIII. Rubber	8,606						22,725
XIV. Musical Instruments	1,673		35				2.065
XV. Miscellaneous Products	11,736					162	25,585
Total, Classes 1. to XV.	559,973			108.071	58.095	36.495	1,318,838
XVI. Heat, Light and Power	23 154					1.619	46.671
Grand Total	583,127						1,365,509
Grand Total	005,127	,223	120,001	111,025	00,950	55,114	x,303,309

FACTORIES: VALUE OF PRODUCTION, 1954-55.

('000.)

(ii) Total and Averages, 1938-39 and 1949-50 to 1954-55. The value of production and the amount per person employed and per head of population are shown in the following table. For Australia as a whole, the value of production per head of population increased from £29.34 per head in 1938-39 to £150.22 per head in 1954-55. For value per person employed, the increase was not quite so pronounced (from £360 per head in 1938-39 to £1,324 in 1954-55) owing to the considerable increase in the number of persons employed in 1954-55 as compared with 1938-39.

FACTORIES: VALUE OF PRODUCTION.

Year.		N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.			
			V	LUE. (£'()00.)						
1938-39		90,266	65,996	1 19,302	13,678	8,776	5,399	203,417			
1949-50		283,201	219,244	61,354	52,353	26,044	19,336	661,532			
1950-51		366,109	275,660	75,460	67,809	34,220	24,614	843,872			
1951-52		443,391	334,360	91,330	83,246	42,746	29,794	1,024,867			
1952-53		457,742	358,032	98,209	89,189	49,192	30,498	1,032,862			
1953-54		520,043	408,314	110,255	100,221	55,147	33,065	1,227,045			
1954-55		583,127	452,223	120,061	111,028	60,956	38,114	1,365,509			
PER PERSON EMPLOYED. (£.)											
1938-39		395	327	357	315	378	391	360			
1949-50		741	722	690	667	639	823	721			
1950-51		900	870	798	817	782	1,033	871			
1951-52		1,092	1,032	968	992	947	1,240	1,048			
1952-53		1,204	1,152	1.055	1,108	1,089	1,298	1,160			
1953-54		1,292	1,233	1,124	1,172	1,162	1,345	1,240			
1954-55		1,389	1,305	1,197	1,240	1,236	1,497	1,324			
			Per Head	OF POPUL	LATION. (£.)					
1938-39		33.00	35.25	19.14	22.98	18.80	22.72	29.34			
1949-50		89.28	101.02	52.75	76.22	47:72	69.71	82.18			
1950-51		111.82	123.24	63.26	95.37	59.89	85.59	101.53			
1951-52		132.12	145.28	74.79	114.14	72.31	99.79	120.02			
1952-53		133.84	151.55	78.64	119.00	80.28	98.72	123.79			
1953-54		152.70	168.53	84.78	127.50	87.44	106.85	137.86			
1954-55		168.56	181.75	90.59	137.50	93.93	121.78	150.22			

7. Value of Output and Cost of Production.—As the total value of the output for Australia for 1954-55 was recorded as £3,434,589,000, there remained, after payment of £1,940,698.000 for the value of the materials used. £781,640,000 for salaries and wages and £128,382,000 for power, fuel and light, a balance of £583,869,000 to provide for all other costs and overhead expenses such as rent, interest, insurance, pay-roll tax, income tax, depreciation, etc., as well as drawings by working proprietors and profit. The following table gives corresponding particulars for each State for the year 1954-55:—

FACTORIES: VALUE OF OUTPUT AND COST OF PRODUCTION, 195	FACTORIES:
--	------------

- State.		Materials Used. (a)	Power, Fuel and Light. (b)	Salaries and Wages.	Balance. (Output less Materials, Fuel and Wages.)(c)	Total Value of Output.						
VALUE AND COST, ETC. (£'000.)												
New South Wales		802,617	60,925	326,615	256,512	1,446,669						
Victoria		616,666	31,767	262,750	189,473	1,100,656						
Queensland		224,336	11,620	68,300	51,761	356,017						
South Australia		169.136	12,897	70,373	40,655	293,061						
Western Australia		80,583	8,046	34,738	26,218	149,585						
Tasmania		47,360	3,127	18,864	19,250	88,601						
Australia	•• •	1,940,698	128,382	781,640	583,869	3,434,589						

(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 1954-55:—

FACTORIES: VALUE OF LAND, BUILDINGS, PLANT AND MACHINERY(a), 1954-55. (£'000.)

Value of—	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
Land and buildings	221,519	186,324	46,187	42,133	30,230	29,603	555,996
Plant and machinery	258,596	226,347	76,367	52,145	54,958	29,879	698,292
Total	480,115	412,671	122,554	94,278	85,188	59,482	1,254,288

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

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

2. Value of Land and Buildings.—(i) Total for Australia. The following table shows for Australia as a whole, the approximate value of land and buildings occupied in connexion with manufacturing industries for 1938-39, and 1950-51 to 1954-55.

		(£'000.)				
Class of Industry.	1938-39.	1950-51.	1951–52.	1952–53.	1953-54.	1954-55.
I. Treatment of Non-metalliferous					1	
Mine and Quarry Products	2,779	6,281	6,905	7,431	8.091	9,103
II. Bricks, Pottery, Glass, etc	2,953	5,883	6,761	7,723	8,535	9,849
111. Chemicals, Dyes, Explosives,			i i			
Paints, Oils, Grease	7,377	20,920	25,262	30,996	36,931	44,658
IV. Industrial Metals, Machines,		-	,			
Conveyances	34,841	97,021	117,513	137,724	159,325	184,934
V. Precious Metals, Jewellery, Plate	633	1,688	2,037	2,311	2,523	2,888
VI. Textiles and Textile Goods (not				1		
Dress)	6,000	18,004	20,845	22,482	25,443	29,651
VII. Skins and Leather (not Clothing						
or Footwear)	2,096	4,764	5,382	5,734	6,072	6,452
VIII. Clothing (except Knitted)	10,624	22,128	24,768	26,359	28,584	31,163
1X. Food, Drink and Tobacco	33,273	60,217	68,916	78,278	86,625	94,070
X. Sawmills, Joinery, Boxes, etc.,	4 107	11 600	14 505	1	40.007	
Wood Turning and Carving	4,107	11,680	14,505	16,361	18,297	21,225
XI. Furniture of Wood, Bedding, etc.	2,533	5,776	6,812	7,256	8,069	8,981
XII. Paper, Stationery, Printing, Book-	10,639	20,207	24,691	27,284	30,444	24.150
binding, etc XIII. Rubber	1.676	3,792	4,620	5,530	6,668	34,156 7,430
VIV Musterl Lestermante	105	387	380	398	468	528
XV. Miscellaneous Products	1,433	5,035	6,266	6,705	7,570	8,299
Av. Miscenancous Froducts	1,455	5,035	0,200	0,705		0,299
Total, Classes I. to XV	121,069	283,783	335,663	382,572	433,645	493,387
XVI. Heat, Light and Power	9,851	19,002	23,827	31,874	49,786	62,609
Grand Total	130,920	302,785	359,490	414,446	483,431	555,996

FACTORIES: VALUE OF LAND AND BUILDINGS(a), AUSTRALIA. (\$2000)

(a) Includes estimated value of rented premises.

(ii) In Classes of Industry in States, 1954-55. The following table gives particulars of the various classes of industry in each State.

		(£'000.)					
Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metallifer- ous Mine and Quarry Pro-							
ducts	3,868	2,696	737	613	595	594	9,103
II. Bricks, Pottery, Glass, etc	4,751	2,295	685	810	1,129	179	9,849
III. Chemicals, Dyes, Explosives,	1 40 400						
Paints, Oils, Grease IV. Industrial Metals, Machines,	19,138	16,973	1,123	2,415	4,127	882	44,658
Conveyances	83,262	60,417	11,958	16,465	8,445	4,387	184,934
V. Precious Metals, Jewellery			1	10,100	0,	.,	101,554
Plate	1,032	1,384	108	202	146	16	2,888
VI. Textiles and Textile Goods (not Dress)	10,365	10.045	653	815	471	502	00.000
VII. Skins and Leather (not Cloth-	10,305	16,845	655	815	4/1	502	29,651
ing or Footwear)	2,546	2,643	312	583	193	175	6,452
VIII. Clothing (except Knitted)	13,765	11,779	2,219	1,607	1,410	383	31,163
IX. Food, Drink and Tobacco	31,073	29,951	15,337	7,808	6,308	3,593	94,070
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving	8,719	5,546	2,030	1,950	1,918	1,062	21,225
XI. Furniture of Wood, Bedding.	0,/19	5,540	2,030	1,950	1,910	1,062	21,225
etc	3,441	2,954	1.011	682	695	198	8,981
XII. Paper, Stationery, Printing,							
Bookbinding, etc.	13,399	12,822	2,084	1,676	1,015	3,160	34,156
XIII. Rubber	3,055	2,857	774	377	254	113	7,430
XV. Miscellaneous Products	3,603	3.993	178	283	176		528 8,299
AT: Mistelianeous Frontees	5,005	3,995					
Total, Classes I. to XV	202,374	173,289	39,214	36,297	26,903	15,310	493,387
XVI. Heat, Light and Power	19,145	13,035	6,973	5,836	3,327	14,293	62,609
Grand Total	221,519	186,324	46,187	42,133	30,230	29.603	555,996

FACTORIES: VALUE OF LAND AND BUILDINGS(a), 1954-55.

(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 1949-50 to 1954-55 :--

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
1938-39	 57,353	42,026	12,299	8,711	6,814	3,717	130,920
1949-50	 110,597	84,124	20,806	24,317	11.055	8,650	259,549
1950-51	 130,468	101,326	23,958	23,303	13,380	10,350	302,785
1951-52	 153,662	119,465	28,610	28,507	16,747	12,499	359,490
1952-53	 176,576	135,324	34,720	31,904	20,960	14,962	414,446
1953-54	 196,724	158,389	40,003	36,579	24,739	26,997	483,431
1954-55	 221,519	186,324	46,187	42,133	30,230	29,603	555,996

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

(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 £556.0 million in 1954–55.

3. Value of Plant and Machinery.-(i) Total for Australia, 1938-39 and 1950-51 to 1954-55. The following table shows for Australia the approximate value of plant and machinery used in factories.

		000.)				
Class of Industry.	1938–39.	1950-51.	1951–52.	1952–53.	1953-54.	1954-55.
I. Treatment of Non-metalliferous						
Mine and Quarry Products	7,028	9,239	11,911	16,155	17.829	20.625
II. Bricks, Pottery, Glass, etc	3,145	6,057	7,461	8,811	9,741	11,000
III. Chemicals, Dyes, Explosives,	1			·		
Paints, Oils, Grease	6,754	26,247	30,559	39,024	53,528	97,508
IV. Industrial Metals, Machines,						
Conveyances	33,038	90,801	112,940	131,857	148,178	168,651
V. Precious Metals, Jewellery, Plate	197	808	955	1,012	1,002	1,094
VI. Textiles and Textile Goods (not						
Dress)	6,657	21,218	23,973	25,030	27,567	29,658
VII. Skins and Leather (not Clothing						
or Footwear)	973	2,994	3,642	3,894	4,034	4,153
VIII. Clothing (except Knitted)	2,557	9,294	10,403	11,181	12,363	13,452
IX. Food, Drink and Tobacco	32,101	56,489	66,712	77,512	90,624	101,700
X. Sawmills, Joinery, Boxes, etc.,	2 0 0 0	10/14	15.900	17051	10.002	21 027
Wood Turning and Carving	3,908	12,614	15,869	17,851	19,002	21,827
XI. Furniture of Wood, Bedding, etc. XII. Paper, Stationery, Printing, Book-	728	2,035	2,483	2,692	2,870	3,186
binding, etc.	9,188	25,301	33,613	38,129	41,866	46.129
VIII Pubbar		3,456	4,171	4,875	5,677	6,843
VIV Musical Instruments	1,368	227	302	305	458	444
XV Miscellaneous Producto	758	4,008	4,674	5,075	5,968	6,614
Av. miscenaneous riouucus	150	7,000	-,0/-	5,015	5,700	5,014

329,668

80,476

410,144

383,403

110,131

493,534

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

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

270,788

65,827

336,615

108,412

35,250

143,662

..

. .

. .

Total, Classes I. to XV.

XVI. Heat, Light and Power

Grand Total

Except for the years 1930-31 to 1933-34, when decreases were recorded, there has been a continuous increase in the value of plant and machinery in factories in Australia. The increase in 1954-55 of £117.6 million over 1953-54 extended over all industrial classes. The greatest increase occurred in Class III., Chemicals, Dyes, Explosives, Paints, Oils, Grease.

532,884

165,408

698,292

440,707

140,008

580,715

(ii) Totals in each State. The following table shows the value of plant and machinery in each State during the years 1938-39 and 1949-50 to 1954-55. During 1954-55 increases occurred in all States, Victoria showing the largest increase, £45.3 million.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
1938–39 1949–50 1950–51 1951–52 1952–53 1953–54 1954–55	 62,693 113,864 136,491 166,437 207,733 233,022 258,596	38,627 92,748 107,261 128,934 147,365 147,365 181,058 226,347	18,095 28,904 34,235 41,290 51,670 64,160 76,367	9,750 24,901 26,759 32,177 40,111 46,788 52,145	8,095 11,457 14,713 20,716 24,035 28,195 54,958	6,402 13,728 17,156 20,590 22,620 27,492 29,879	143,662 285,602 336,615 410,144 493,534 580,715 698,292

FACTORIES : VALUE OF PLANT AND MACHINERY.(a)

(£'000.)

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

(iii) Value according to Class of Industry, 1954-55. The following table shows the value of plant and machinery used in factories in each State during 1954-55 according to class of industry.

FACTORIES : VALUE OF PLANT AND MACHINERY(a), 1954-55. (£'000.)

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metallifer-							
ous Mine and Quarry Pro-	10 762	2 572	2 205	2 960	700	200	20 625
ducts	10,762	3,533	2,295	2,850 722	799	386 212	20,625
II. Chemicals, Dyes, Explosives,	5,344	2,483	1,019	122	1,220	212	11,000
Paints, Oils, Grease	26,330	37,325	1,290	3,394	26,753	2,416	97,508
IV. Industrial Metals, Machines,	20,330	31,323	1,290	3,394	20,755	2,410	97,500
Conveyances	90,535	44,967	8,478	16,499	5,274	2,898	168,651
V. Precious Metals, Jewellery,	90,555	44,907	0,470	10,499	5,274	2,090	100,051
Plate	426	510	33	72	45	8	1.094
VI. Textiles and Textile Goods	420	510	33	12	43	o	1,094
(not Dress)	10,151	17.079	936	472	353	667	29,658
VII. Skins and Leather (not Cloth-	10,151	17,075	330	4/2	555	007	29,030
	1.646	1.474	363	441	187	42	4.153
VIII. Clothing (except Knitted)	5,149	5,705	1.075	781	547	195	13,452
IX. Food, Drink and Tobacco	29.087	27,270	30.715	6,892	4,914	2,822	101,700
X. Sawmills, Joinery, Boxes, etc.,	29,007	21,210	30,715	0,092	7,217	2,022	101,700
Wood Turning and Carving	7.634	4,786	3,267	1,572	2.000	2,568	21,827
XI. Furniture of Wood, Bedding,	7,034	4,700	3,207	1,572	2,000	2,500	21,027
etc.	1.119	1.010	411	315	255	76	3,186
XII. Paper, Stationery, Printing,	1,119	1,010	411	315	255	70	3,100
Bookbinding, etc.	12,909	18.977	2.366	2,165	1.332	8,380	46,129
VIII Database	2,669	3.040	2,300	360	146	78	6.843
VIV Musical Lastman onto	356	3,040	330	1	3	70	444
AND A DATE OF A	2,628	3,492	98	309	64	23	6,614
XV. Miscellaneous Products	2,020	3,492	30	505		25	0,014
Total, Classes I. to XV	206,745	171,732	52,899	36,845	43,892	20,771	532,884
					!		
XVI. Heat, Light and Power	51,851	54,615	23,468	15,300	11,066	9,108	165,408
Grand Total	258,596	226,347	76,367	52,145	54,958	29,879	698 292

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

4. Depreciation of Land and Buildings and Plant and Machinery, 1954-55.—The following table shows the allowance made for the depreciation of land and buildings and plant and machinery used in connexion with the manufacturing industries in each State as recorded by factory proprietors at the annual census of factory production.

Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metallifer-							
ous Mine and Quarry Pro-							
ducts	1,300	363	220	297	129	25	2,334
II. Bricks, Pottery, Glass, etc	591	287	144	69	131	29	1,251
III. Chemicals, Dyes, Explosives,	2657	2 400	100	1 201		433	
Paints, Oils, Grease IV. Industrial Metals, Machines,	2,657	2,499	188	391	1,575	432	7,742
Commence	7,731	4,852	838	1,778	490	445	16,134
V. Precious Metals, Jewellery,	1,151	4,032	030	1,778	490	445	10,134
Plate	29	50	2	5	2		88
VI. Textiles and Textile Goods		50	-	, J			00
(not Dress)	1.040	1,992	55	83	55	90	3,315
VII. Skins and Leather (not Cloth-	.,	-,					5,515
ing or Footwear)	108	117	24	37	17	2	305
VIII. Clothing (except Knitted)	464	420	81	50	45	20	1.080
IX. Food, Drink and Tobacco	2,613	2,994	2,407	596	448	234	9,292
X. Sawmills, Joinery, Boxes, etc.	-,		-,				- ,=- =
Wood Turning and Carving	699	533	284	173	194	162	2.045
XI. Furniture of Wood, Bedding,			1				•
etc	93	62	37	23	21	6	242
XII. Paper, Stationery, Printing,					1		
Bookbinding, etc.	1,221	1,751	221	159	124	670	4,146
XIII. Rubber	624	548	148	60	16	10	1,406
XIV. Musical Instruments	42	7				••	49
XV. Miscellaneous Products	298	453	10	25	5	3	794
Total, Classes I. to XV.	19,510	16,928	4,659	3,746	3,252	2,128	50,223
XVI. Heat, Light and Power	3,725		1.019	476	636	215	6,261
Grand Total	23,235	17,118	5,678	4,222	3,888	2,343	56,484

FACTORIES : ALLOWANCE FOR DEPRECIATION OF LAND AND BUILDINGS AND PLANT AND MACHINERY, 1954-55.

(£'000.)

5. Land and Buildings, Plant and Machinery—Values, Additions and Replacements, Depreciation, 1938-39 and 1949-50 to 1954-55.—The following table summarizes the recorded totals for Australia, in this section, and also includes particulars of additions and replacements.

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

(£'000.)

Year.			lues as at une.(a)		nd Replace- ring 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	
1949-50		259,549	285,602	18,551	59,562	2,983	25,906	
1950-51	••	302,785	336,615	26,710	81,003	3,859	33,006	
1951-52	• •	359,490	410,144	37,702	96,370	3,634	30,479	
1952-53	••	414,446	493,534	48,006	119,790	4,683	33,039	
1953-54		483,431	580,715	55.668	128,453	5,673	41,524	
195455		555,996	698,292	58,311	170,762	6,568	49,916	

(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 Bulletin Secondary Industries.

The following table shows the total recorded production of some of the principal articles manufactured in Australia during the years ended 30th June, 1953 to 1955. A more complete list, together with values, where available, is published in the Bulletin Secondary Industries.

QUANTITY OF PRINCIPAL ARTICLES PRODUCED IN FACTORIES : AUSTRALIA.

	Arti	cle.			Unit of Quantity.	1952-53.	1953-54.	1954-55.
Acid— Nitric					Ton	9 (0)	11 501	
Sulphuric	••	••	••	••	1	8,693 627,283	11,501	11,777 835,245
Aerated and C	 arbonate	d Waters	••	•.•	'000' gals.	53,221	731,897 56,624	59,648
Asbestos Ceme	at Duild	u waters		••	'000 sq. yds,	24,252		28,077
Asoestos Cente	in Dunu	ing ancer	5	••	000 sq. yus.	24,232	26,074	20,077
Bacon and Ha			••	••	Ton	34,254	33,651	35,188
Bags, Leather, Handbags	riore, et							
			••	••	No.	918,485	957,810	935,001
						512,158	470 379	575,085
A					,,	148,891	134,873 137,316 1,165,399 2,902	125,298
School Bags				••		136,186	137,316	104 993
Suitcases(a)						958,099	1.165.399	1.258,306
Trunks						2.161	2,902	1,258,306 1,348 335,575 701,395
All other						2,161 249,110	253,590 771,227	335,575
Baking Powder Bath Heaters-		••	••	• •	1b.	775,982	771,227	701,395
Bath Heaters-								
Electric	••	••	••	••	No.	17,510 23,367	19,045 27,360	17,886
Gas		••	••	••	,,,	23,367	27,360	27,626
Solid Fuel	••	••	••	••	-"	41,087	42,325	41,191
Bathing Suits	••	••	••	••	Doz.	135,743	156,509	222,473
Baths, C.I.P.E.	~	••	••	••	No.	64,720	89,387	117,414
Baths, C.I.P.E. Batteries, Wet Beer (excluding	Cell type		••	••	'000 "gals.	1,145,715	1,398,985	1,501,788
			••	••	'000 gais.	192,344	208,557	221,679
	••	••	••	••	000 10.	148,278	150,475	150,816
Blankets			n	••	Pair	469,713	601,163	766,199
Boots, Shoes a Boots and Sl					'000 pairs	16,492	18,582	17,901
		••		••	£ -	1,478	1 00 5 1	1,980
Slippers	••	••		••	37	6 000	8,632	7 324
Bran (Wheaten	i.			••	Ton (2,000 lb.)	304,394 329,745 667,055 18,747	274 307	7,324 272,455
					Doz.	329 745	416 889	404 893
					,000	667 055	801 998	838,579
					Gross	18,747	18,539	19,715
Brushes (b)						71,014	8,632 274,307 416,889 801,998 18,539 82,257	838,579 19,715 86,531
	••				Tön	163,589	156,117	188,010
a 11								
Candles	••	••	••	••	Cwt.	14,256	8,611 996,701	10,369 1,029,250
Cardigans, Swe	aters, etc	c.	••	••	Doz.	700,566	996,701	1,029,250
Cement, Portla	nd		••	••	Ton.	1,439,096	1,700,127	1,919,802
Cheese	••	••	••	••	'000' Ib.	46,592	49,043	45,178
Cigarettes		 Dourdour	••	••	'000 ID.	13,879	18,303	22,859
Cleansing and Soap based	scouring	Powders	<u> </u>		Cwt.		C	91,038
Other	••	••	••	••		} 94,447	99,187	43,823
Cloth—	••	••	••	••			, c	45,025
Cotton					'000 sq. yds.	25,716	33,618	34,424
Woollen and	Worster	iia			•	29,400	35,027	31,067
Coke-		* (0)	••	••		27,400	55,021	51,007
Metallurgica	1				Ton	1,858,428	2,010,404	2,046,790
Other					,,	1,071,106	943,344	1,099,859
Confectionery-								
Chocolate				••	'000 lb.	58,961	62,599	56,902
Other	••	••	••		,,	76,644	62,599 76,872	81,506
Coppers-								-
Electric	••	••	••	••	No.	24,673	29,935 28,047	28,381
Gas		••	••	••	,,	25,039	28,047	27,400
Inserts (all ty	pes)	••	••	••		79,407	85,300	86,487
Cordials and S	yrups	••	••	••	'000' gals.	5,628	3,967	4,537
Corsets and Co		• • • •	••	••	Doz.	122,262	155,408	141,265
Cosmetic Creat		otions				1	6 412	E
Face Creams Hand Cream			••	••	Cwt.	4,923	5,412	5,110
mang Uream				••	, ,,	3,124	4,800	6,175
			us	••	1 11	0,938	9,102	8,221
Other Skin (2000 11		6125	
	r		••	•••	'000 lb. No.	6,958 5,745 75,414	6,155 85,063	5,535 91,307

(a) Includes Kitbags. (b) Excludes Tooth, and Industrial Metal and Bristle. (c) Includes Mixtures.

	Arti	cle.			Unit of Quantity.	1952-53.	1953–54.	1954–55.
Dynamos Alternators Generators		 		•••	No.	200 8,194	293 9,331	264 8,473
Electricity Enamels, Nat	ural and S	 Synthetic		::	Mill. kWh '000 gals.	12,045 2,108	13,707 2,698	15,172 3,642
Engines Diesel, othe Petrol	er than M	arine		••	No.	4,919	3,787	2,668
Marine Other (a)	•••			::	,,	1,232 16,527	1,357 23,680	1,380 45,608
Essences, Flav Domestic Industrial	vouring—			•••	Gal.	92,592 198,092	96,359 245,812	111,086 278,348
Face Powder	••	••		••	Cwt.	2,898	3,396	4,336
Fans, Electric Fats, Edible- Dripping	-	••		••	No. Cwt.	39,292 426,010	42,283 357,802	63,265 367,517 291,989
Other Fibrous Plaste Fish, Tinned (Fish Loa	 ຫົ	•••	'000 sq. yds. '000 lb.	237,902 15,418 7,705	264,267 16,185 6,605	291,989 17,784 6,646
Floorboards- Australian Imported T	_ Timber	·· •			'000 super. ft.	87,009 3,943	110,536 3,845	115,640 4,474
Flour, Self-rai Flour, Wheate Fruit Juices-	ising en (b) Natural	••	 	 	Cwt. Ton (2,000 lb.) '000 gals.	1,105,835 1,726,300 2,075	1,116,278 1,609,058 3,161	1,102,480 1,553,019 2,874
Gas Gloves	••	••		••	Mill, cubic ft.	40,722	42,100	43,465
Dress Leather Other	••	••		::	Doz. pairs	25,254 90,397	12,113 112,892	6,454 58,749
Work, all ty Golf Clubs	vpes		••	•••	Döz.	158,733 8,961	214,596 15,563	269,408 14,861
Handkerchiefs Men's Women's	;— 	••		••	"	979,959 882,164	1,234,162 1,538,067	1,438,896 1,375,669
Hats and Cap Hose, Rubber	-Garden		· · · · ·	•••	" '000 lin. ft.	510,402	530,521 5,420	510,382 5,071
Plastic-	Other -Garden	••	••	•••	" "	5,994 15,507	7,111 29,887	9,716 24,893
Ice Ice Cream Iron and Steel	···		 	::	Ton '000 gals.	960,034 13,425	877,803 13,678	766,557 14,796
Pig Iron Steel Ingots	••	••		::	'000 tons "	1,692 1,801	1,827 2,117	1,869 2,209
Blooms and Irons, Electric) Omestic)			No	1,688 179,842	1,921 229,910	1,953 278,777
Jams Jelly Crystals	••	 		 	'000 1ь. ,,	77,521 9,553	85,687 11,028	81,699 11,799
Kalsomine	••	••	••	••	.,	3,787	3,396	3,089
Lacquer, Clea Lard Lawn Mowers		ours		•••	Gal. Cwt.	1,012,782 41,266	1,306,661 40,973	1,476,489 40,472
Electric Petrol Hand	••	•		::	No. "	12,849 5,614 54,186	21,922 9,849 85,867	25,418 29,423 106,005
Leather— Dressed from		•••	 	••• •••	" '000 sq. ft.	46,541	50,733	48,796
Dressed from Harness, Ski Sole and Bel	irt. etc.	••	••• ••• •••	 	'000 іь.	22,561 1,607 38,298	26,811 1,546 38,675	26,376 1,433 35,001
Lime—Agricul	tural	••	 		'000 sq. ft, Ton	10,343 99,883	13,097 108,746 44,047	35,001 12,032 111,170 48,644
Hydrate Quick Linseed Oil-	extracted :	 from Loo	al Crushi	 ing	" '000 ["] gals.	36,877 119,731 1,475 1,911	123,774 338	128,639 438
f Lubricating O	rom trea	tment of	Unrefin	ied •••		1,911 11,290	3,946 14,241	3,539 16,084

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

(a) Excludes Motor Car, Motor Cycle, Tractor and Aero Engines. (b) Includes Wheatmeal for Baking and Sharps.

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

A	USIR	ALIA—contin	ued.		
Article.		Unit of Quantity.	1952-53.	1953-54.	1954-55.
Malt, Barley Margarine—		'000 bus.	6,620	7,078	7,517
Table	••	'000 lb.	15.856	21,866 49,939	21,972
Other Maturesses—Wire		No.	49,337 238,527	49,939 262,930	49,171 315,741
Inner Spring			329,604	418,811	476,395
Soft Filled, etc	••		349,426	367,116	380.465
Meat, Tinned Milk—	••	' 00 0 Ib.	209,376	161,113	165,394
Concentrated (Whole)		,,	32,465	43,599	22,560
Condensed	••		124,063	94,944	86,225
Powdered (Whole) (a)	••	<u>c"</u>	72,654	68.643 11,964	59,269
Mops, Floor		Gross No.	9,658 90,767	114,878	13,914 127,709
Motor Spirit (including Benzol)		'000 gals.	106,793	182,319	412,955
Motors, Electric	••	No.	601,659	972,887	1,182,981
Nails		Ton	18,392	22,008	24,214
Nails		Doz.	522,590	588,730	491,455
Newsprint	••	Ton	34,010	60,406	73,608
Oatmeal (including Rolled Oats)		Cwt.	381,237	400,095	322,985
Paint-Oil	••	'000 gais.	4,300	5,180	6,098
Water	••	'000 lb.	24,846. 3,419	31.930	28,955 4,627
Perambulators	••	No.	131,699	4,313 153,048	155,433
Pickles		'000 pints	7,388	6,896	6,765
Pigments—Colours ground in oil	••	Cwt.	18,028	19,047 172,807	17,592 184,853
Zinc Oxide	••	"	87,260 68,284	<u>ז א</u>	
Other, including Dry Colou	ırs	·, ,	204,684	} 337,794	389,185
Piywood, A inch basis Pollard	::	'000 sq. ft. Ton (2,000 lb.)	115,728 369,243	161,581 335,890	186,604 315,028
Fruit Preserved (b)	••	'000 Ib. ,,	228,379 66,306	338,562 40,265	319,235 51,116
Pyjamas— Men's and Boys' (Suits only) Women's and Girls' (inc. Nightdress	 ies)	Doz.	180,147 289,104	273,423 322,010	339,556 343,464
			17 201	22,224	18 361
Racquet Frames (all types) Refrigerators—Commercial		No.	17,391 1,127	1,442	18,361 1,656
Domestic			182,134	274,487	280,577
Rice (Cleaned)	••	Cwt.	718.556	904,207 115,182	916,702 125,727
Ropes and Cables (excluding Wire)	••	۰,	105,519	113,102	125,727
Sauce		'000 pints	25,977	25,770	28,526
Sausage Casings	••	Cwt.	65.352	61,205	72.377
Semolina	••	Doz.	109,253 881,447	108,382 1,240,069	103,553 1,410,573
Sink Heaters	• • • •	No.	20,565	24,907	23,799
Soap—				660 764	624.020
Household	••	Cwt.	593,201 76,601	568,754 77,406	534,939 79,952
Flakes and Chips (c) Industrial (including Wool Scouring	Soap)	**	84,173	99,983	117,174
Sand			28,982	22,045	24,312
Toilet and Hand Shaving (including Sticks and Creat	 	**	272,630	300,248 7,076	329.748
Shaving. (including Sticks and Crear Solt	ms)	**	7,095	18,954	7,218 25,522
Liquid	•••		124,098	144,215	175,503
Shanipoo	••	"	7,561	8,547 890,241	5,775 994,889
Socks and Stockings—	••		885,158		
Men's	••	Doz. pairs	1,574,846	1,894,936	1,664,072
Women's	••	•	2,337,332	2,793,050 570,167	3,016,671
Children's	••	'000 pints	422,406 22,621	25,509	531,816 27,616
Spades and Shovels		Doz.	21,821	25.322	32,058
Starch—Edible	••	Cwt.	312,188	334,298	357.557
Inedible Steel, Structural, Fabricated		Tön	70,385	90,339 135,057	92,004
Stoves, Orens and Ranges-	••	101	130,029		
Domestic Cooking-				0. 500	05 500
Electric (d) Gas	••	No.	63,385 35,731	81.508 43,040	85,589 58,758
Solid Fuel		**	47,033	50,376	49,758
Sugar-Raw (94 net titre)	••	Tön	948,886	1,254,387	1.327.546
Refined	••	,,	440,326	449,015	481,639 78,434
Sulphate of Ammonia	••	· · · · · · · · · · · · · · · · · · ·	70,174 1,581,001	70.811	1,960,605
· · · · · · · · · · · · · · · · · · ·		J	1	ļ	1

(a) Includes Malted Milk and Infants' and Invalids' Foods. (b) Includes Canned Apple, all types. (c) Includes industrial flakes and chips. (d) Includes Stovettes, Cookers, etc.

		CALIA-conii			
Article.		Unit of Quantity.	1952-53.	1953–54.	1954-55.
Talcum Powder		Cwi.	24,637	30,183	30,454
Edible		,,	317,722	388,222	507,477
Inedible	••		1,120,308	1,101,114	1,126,770
Tiles, Roofing—		}			
Cement	••	'000	46,934	44,651	53,720
Terracotta Timber—	••	**	57,977	63,782	63,934
From Native Logs-					
Hardwood		'000 super. ft.	1,115,423	1,157,124	1,184,992
Softwood		ooo super. It.	224,374	242.974	264,296
From Imported Logs-		, ,,		,	20.,250
Hardwood	••	,,	1 12 000	20 (27	20 740
Softwood			} 13,588	20,627	28,748
Toasters, Electric (Domestic)	••	No.	117,815	156,909	156,037
Tobacco	••	'000 lb.	22,334	23,400	21,466
Tomato Juice	••	Gal.	1,863,640	622,314	1,237,714
Towels	••	Doz.	626,672	659,987	666,403
A have 20 have		No.	3,250	2.949	3.099
Below 20 k.v.a	••		207,084	309,901	386,517
Twine (all types)		Cwt.	86,465	107,629	116,059
Tyres, Pneumatic-	••	0	00,405	107,025	110,000
Motor Car and Motor Cycle		No.	1,288,352	2,214,041	2,737,172
Truck and Omnibus			329,848	509,663	587,739
All Other (excl. Bicycle)	• •		75,834	165,868	190,365
Umbrellas			338,548	430,422	478,144
Underwear		'000 doz.	3,243	4,239	4,328
			•,=••	.,	-
Vacuum Cleaners (Domestic)	••	No.	38,398	57,275	59,968
Varnishes	••	'000 gals.	2,930	3,135	3,188
Washing Machines, Household, Ele	ctric	No.	91,384	146,259	166,312
Weatherboards-			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		100,012
Australian Timber		'000 super. ft.	20,944	24,880	23,529
Imported Timber		,,	3,003	3,271	3,264
Wheatmeal(a)	••	Ton (2,000 lb.)	88,101	137,732	128,863
Wheelbarrows (Metal)	••	No.	62,364	78,874	84.631
Wireless-					
Cabinets- Wood		No.	55.044	95 061	86.210
0.1	••	1	190,098	85,061 304,452	310,684
Receiving Sets	••		298,955	437,513	453,020
Wool Scoured-	••		200,000	457,515	425,020
For Sale		'000 lb.	37,348	40,536	40.994
For use in own works	•••		29,218	38,246	37,610
On Commission			57,479	57,785	57,643
Wool Tops	••		26,467	32,755	30,886
Yarn(b)		}			
Cotton			27,611	38,101	41,493
Woollen		**	15,468	19,868	19,790
Worsted			20,141	26.076	22,897
	-		,	- ,	•
Zinc Oxide (See Pigments)			l l		

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

(a) Excludes Wheatmeal for Baking included with Flour. (b) Including mixtures predominantly of the fibre mentioned.

§ 11. Individual Industries.

1. General.—Particulars in pages 206-233, §§ 2-9 afford a general view of the magnitude of industries in the sixteen groups adopted by the Conference of Statisticians in 1930. While it is not possible, within the limits of this work, to give a detailed account of each industry, particular industries dealt with hereunder are of special importance because of the employment which they provide for labour and capital or for other features of special interest. Where there are only one or two establishments in a particular industry in the State or the Commonwealth, details of activities are not published, but are combined with some other factory group so that operations of individual concerns will not be disclosed.

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

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

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

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

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

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

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

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

For more detailed definitions see § 1, par. 6 of this chapter, page 203.

Details of some of the principal articles produced in factories in Australia during the years 1952-53 to 1954-55 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 1954–55 and for a series of years in the following table.

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

AUSTRALIA, 1954-55.

Items.		Portland Cement.	Asbestos Cement Sheets and Mouldings.	Other Cement Goods.	Total.
Number of factories		14	15	451	480
Number of persons employed		2,925	2,661	4,858	10,444
Salaries and wages paid	£	2,653,339	2,255,703	3,794,960	8,704,002
Value of power, fuel, etc., used	£	4,058,476	230,419	156,380	4,445,275
Value of materials used	£	5,711,625	5,284,529	8,421,748	19,417,902
Value of production	£	6,323,394	3,822,882	6,862,386	17,008,662
Total value of output	£	16,093,495	9,337,830	15,440,514	40,871,839
Value of land and buildings	£	1,918,009	980,476	1,827,672	4,726,157
Value of plant and machinery	£	9,601,988	1,317,423	2,288,407	13,207,818
Horse-power of engines ordinarily in use	h.p.	72,330	10,311	13,229	95,870

А	US	TR	AI	JA.
А	US	TR	AI	JA.

Items.	1938–39.	1950-51.	1951–52.	1952-53.	1953–54.	1954-55.
Number of factories	132	526	559	504	479	480
Number of persons employed	3,932	9,192	9,851	9,352	9,304	10,444
Salaries and wages paid £'000	897	4,860	6,469	6,942	7,435	8,704
Value of power, fuel, etc., used £'000	562	1,794	2,418	3,436	3,950	4,445
Value of materials used £'000		9,025	12,698	14.303	16.013	19,418
Value of production £'000		8,635	11,169	12,197	14,198	17,009
Total value of output £'000		19,454	26,285	29,936	34,161	40,872
Value of land and buildings £'000	1,350	3,250	3,466	3,890	4,206	4,726
Value of plant and machinery £'000	2,516	4,691	6,455	10,018	10,796	13,208
Horse-power of engines ordinarily in	1	1	1 1			
use h.p.		75,584	81,691	91,880	89,260	95,870

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 1954–55 with comparative figures for previous years. However, it should be noted that in order to avoid the publication of confidential information, particulars relating to Industrial and Heavy Chemicals include details for the Explosives industry.

INDUSTRIAL AND HEAVY CHEMICALS AND ACIDS (INCLUDING EXPLOSIVES).

1954-55.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories	133	76	16	9	13	1	248
Number of persons employed	5,519		292	760		(a)	13.032
Salaries and wages paid £	5,330,399	5,318,300	226,046	715,056		(a)	11,832,853
Value of power, fuel, etc., used £	1,662,885	705,714	51,081	535,783	(a) (a)	(a)	3,043,157
Value of materials used £		10,300,588	347,289	1,011,154	(a)	(a)	29,003,829
Value of production £	12,328,794		487,831	2,065,659	(a)	(a)	25,095,500
Total value of output £		20,766,333	886,201	3,612,596	(a) (a)	(a)	57,142,486
Value of land and buildings £	7,493,046	5.622,634	124,967	703,321	(a)	(a)	14,189,703
Value of plant and machinery £	15,058,949	8,209,674	168,624	1,661,529	(a)	(a)	25,606,607
Horse-power of engines ordinarily						. /	
in use h.p.	41,958	44.078	1,774	4,404	(a)	(a)	95,188

AUSTRALIA.

Items.			1945-46.	195051.	1951–52.	1952-53.	1953–54.	1954–55.
Number of factories			165	207	219	229	234	248
Number of persons employed	• •		10,228	10.615	11,504	11,253	11,765	13,032
Salaries and wages paid		£'000	3,450	6.243	8,539	8,928	9,907	11,833
Value of power, fuel, etc., used		£'000	618	1.546	2,110	2,210	2.757	3,043
Value of materials used		£'000	6,007	16.857	21,097	19,538	25,158	29,004
Value of production		£'000	6,627	13,373	17,180	16.879	20,643	25,095
Total value of output		£'000	13,252	31,776	40,387	38,627	48,558	57,142
Value of land and buildings		£'000	11.697	7,770	8,828	11.923	13,389	14,190
Value of plant and machinery		£'000	10,964	11,043	12,507	19,612	23,573	25,607
Horse-power of engines ordinar						,],	,
in use		h.p.	69.399	74.613	76.890	85.254	90.807	95,188

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

PHARMACEUTICAL AND TOILET PREPARATIONS.

1954-55.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories	122	64	5	13	3	3	210
Number of persons employed	3,164		113	491	(a)	(a)	6,233
Salaries and wages paid £	2.084.279	1.755.315	55,008	301,920	(a)	(a)	4,255,152
Value of power, fuel, etc., used £	79,359	113,215	1,172	25,701	(a)	(a)	222,536
Value of materials used £	6.540.051	4.775.725	217,760	1,076,493	(a)		12,729,164
Value of production £	9,485,541	4,035,017	186,907	481,426	(a)	(a)	14,380,127
Total value of output £	16,104,951	8,923,957	405,839	1,583,620			27,331,827
Value of land and buildings £	2,546,994	2,972,838	34,243	316,393		(a)	6,022,348
Value of plant and machinery £	918,515	1,025,863	15,715	139,129	(a)	(a)	2,128,696
Horse-power of engines ordinarily	1	· ·					
in use h.p.	4,200	7,697	82	1,401	(a)	(a)	13,592

AUSTRALIA.

Items.		1945–46.	1950-51.	1951–52.	1952–53.	1953–54.	1954-55.
Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of materials used Value of production Total walks of cuttant	£'000 £'000 £'000 £'000	215 5,514 1,699 57 5,402 4,790 10,249	201 5,538 2,423 91 8,291 8,985 17,367	208 6,149 3,433 150 9,877 10,314 20,341	206 5,363 3,468 197 9,784 10,188 20,169	208 6,012 3,898 238 12,017 12,969 25,224	210 6,233 4,255 223 12,729 14,380 27,332
Value of plant and machinery Horse-power of engines ordinari	. £'000 . £'000 ly . h.p.	1,534 598 6,324	1,963 823 8,357	3,332 1,286 10.618	3,931 1,569 12,238	4,755 1,793 12,777	6,022 2,129 13,592

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

4. White Lead, Paints and Varnish.—The following table shows particulars of this industry for each State during 1954-55 and for Australia for a series of years.

				· · · ·								
Items.	N.S	.w.	Victo	oria.	Q'la	nd.	S. Au	ıst.	W. Au	ıst.	Tas.	Australia.
Number of factories		78		56		17	·	14		-8	2	175
Number of persons employed	:	2,970		1,409		309		533	(a)	- 1	(a)	5,322
Salaries and wages paid £		7,591	1,21	3,563	22	B,010	430	,327	(a)		(a)	4,636,159
Value of power, fuel, etc., used £	26	0,726	7.	3,816	13	5.079	21	,975	(a)		(a)	375,874
	11,21		5,91	2,701		9,801		,764			(a)	21,553,319
Value of production £	6,29	8,349	3,31	2,759	98	1,304	1,145	,518	(a)		(a)	11,980,220
Total value of output £	17,77			9,276		6,184					(a)	33,909,413
Value of land and buildings £		9,575		6,366	24	2,735),569		•	(a)	5,089,428
Value of plant and machinery £	1,18	0,025	1,16	0,386	15	7,765	343	3,790	(a)		(a)	2,891,781
Horse-power of engines ordinarily							1					
in use h.p.	1	3,236		7,407		1,311	1 1	,602	(a)		(a)	24,178
Australia.												
Items.		1938	-39.	1950	-51.	195	1–52.	195	2–53.	19	53-54.	1954–55.
Number of factories	•••		102		154		158		175		174	175
Number of persons employed		2	271	4	,985		5,141	Ι.	4.622		4,934	5,322
	2000	-	535		784		3.378		3.346		3,757	4,636
	000		45	-	229	1 -	303		258		337	376
	'000	2	.275	14	,157	10	6,623	1	4.657		18,603	21.553
	000	1	585		.010		8,112		8,583		9,891	11,980
	000	3	,905	21	,396	2	5,038	2	3,498		28,831	33,909
Value of land and buildings £	'000	l	761	2	2,831		3,213		3,669		4,066	5,089
Value of plant and machinery £	000		324	1	,548	1	1,842	1	2,113		2,230	2,892
Horse-power of engines ordinaril	y in					1						
use	h.p.	1 7	,696	19	,875	2	1,412) 2	2,769	ļ	22,719	24,178

WHITE LEAD, PAINTS AND VARNISH. 1954-55.

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

5. Soap and Candle Factories .- The following table shows particulars of factories in the Soap and Candle industry in each State for 1954-55 and for Australia for a series of years :---

SOAP AND CANDLES. 1954-55.

		1754-5	J				·····
Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories		29		5	3	3	
Number of persons employed	1,768	716	268	132	(a)	(a)	2.962
Salaries and wages paid	1,631,295	614,093	185,605	107,567	(a)	(a)	2.588.603
Value of power, fuel, etc., used £	182,031	200,980	18,367	11,783		(a)	419,959
Value of materials used £	6,634,817	4,135,203	589,095	309,929			11.940.793
Value of production £	4,743,001	2.018.355	431,418	132,457		(a)	7,424,909
Total value of output £	11,559,849	6.354.538	1.038,880	454,169		(a)	19,785,661
Value of land and buildings £	543,099	828,627	111,715	76,507	(a)	(a)	1,619,011
Value of plant and machinery £	1,009,216	1,415,504	137,051	58,222	(a)	(a)	2,652,554
Horse-power of engines ordinarily							
in use h.p.	4,521	2,507	866	537	(a)	(a)	8,676

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

AUSTRALIA.

Items.	1938–39.	1950-51.	1951-52.	1952–53.	1953–54.	1954-55.
Number of factories	65	93	88	89	89	91
Number of persons employed	. 2.620	3.502	3,440	3.028	3,058	2,962
Salaries and wages paid £'00	00 501	1,974	2,555	2,460	2.544	2,589
Value of power, fuel, etc., used £'0		353	453	475	427	420
Value of materials used £'0		6.330	8,384	8,846	10.214	11.941
Value of production £'0		4,609	4,638	6,324	6,732	7.425
Total value of output £'0		11,292	13,475	15.645	17.373	19.786
Value of land and buildings £'0		1,200	1.301	1,487	1.565	1, 1,619
Value of plant and machinery £'0		1,341	1,693	1,985	2,244	2,653
Horse-power of engines ordinarily		1,511	1,075	1,000	-,	2,000
	p. 5,267	7,447	.8,769	8,606	8,795	8,676
Materials used—	p. 0,207	1 1,441	.0,.07	0,000	0,175	0,070
Tallow.	rt. 535.511	1,123,895	1.134.935	1.024.772	1.120.828	1.151.146
Alkali for Soan (a)	104 960	343.378	403,241	386,176	377.451	421,401
Coconut oil—refined and unrefin		343,370	405,241	300,170	571,451	421,401
coconat on-renace and and and		91,404	113,203	95,825	86,576	93,498
Articles produced—	1. 130,554	51,404	113,203	95,025	00,270	33,430
	vt. 978,113	1.365.669	1.304.987	1.208.853	1.247.228	1,300,143
Soap Extracts and Powders				885,158	890,241	994.889
Condition and the	, 191,232	754,758	929,310			
Candles made	. 28,649	12,871	16,931	14,256	8,611	10,369

(a) Includes Soda Ash.
 (b) Soap made in all factories including those not classified as "Soap and Candle " factories.
 Norre.—Preliminary figures of production in 1955-56 were Soap, 1,298,000 cwt.; Soap Extracts and Powders, 889,000 cwt.

6. Chemical Fertilizers.—The following table shows particulars of the factories engaged in the manufacture of chemical fertilizers in each State during 1954–55 and for Australia for a series of years. Details of the consumption, imports and exports of fertilizers will be found in Chapter XXII.—Agricultural Production.

CHEMICAL FERTILIZERS.

1954-55.

Items.	N.S.W	Vic.	Q	land.	S. Aust.	W. Aust	Tas.	Australia.
Number of factories		15			8	7	6 8	53
Number of persons employed.	1,0	431,	387	(a)	86	8 1,00	4 (a)	4,735
Salaries and wages paid £	978,3	39 1.355,	529	(a)	789.65			4,372,273
Value of power, fuel, etc., used £	406.2	86 194.	929	(a)	83,49	9 141,46		852,150
Value of materials used £	3.755.7	94 6.616.	382	(a)		2 4.882.79		21,519,074
Value of production £	1,957,8	34 2,868,	270	(a)		2 1,944,00		8,794,215
Total value of output £	6,119,9			(a)		3 6,968,26		31,165,439
Value of land and buildings £	2,466,3			(a)		6 1,817,35		6,512,111
Value of plant and machinery £	2,708,9			(a)	995.80	1 2,253,58	1 (a)	9,269,940
Horse-power of engines ordi-	· , · · ,	· · · · ·			,	-,,	,	- ,= - ,
narily in use h.p.	15,3	62 13,	683'	(a)	6,81	4 7,53	3 (a)	47,595
		Aus	RALIA.					·
Items.	1	1938-39.	1950-5	51. 1	951-52.	1952-53.	195354	1954-55.
Number of factories	-	36	· · · ·	19 -			51	53
Number of persons employed		2,540	4,0		4,325	4,483	4,531	4,735
	000'3	601	2,5	10	3,361	3,759	3,988	4,372
	£.000	114		40	589	786	842	852
	E'000	3.231	14.0		20,297	21,100	20,521	21,519
	£'000	1,600	4,3		5,998	7,255	8,109	8,794
	E'000	4,945	18,7		26,884	29,141	29,472	31,165
	E'000	1,449	3.9		4.244	4,794	6,067	6,512
	£'000	2,353	5,4		5,804	6,218	8,067	9,270
Horse-power of engines ordinari		_,	-,.		-,	-,	.,	-,
use	h.p.	18,165	36,2	74	38,220	39,850	41,644	47,595

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

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 each State for 1954–55 and for Australia in selected years for the group Smelting, Converting, Refining and Rolling of Iron and Steel.

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

1954-55.

		1934-33.					
Items.	N.S.W.	Victoria.	Qid.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories	18	i — — — — — — — — — — — — — — — — — — —		3	, 1		33
Number of persons employed	16,102	2 1,421		(a)	(a)		17.842
Salaries and wages paid £	16,588,476	5 1,334,971		(a)	' (a)	••	18,237,786
Value of power, fuel, etc., used £	13,635,091	293,813		(a)	(a)		15,669,815
Value of materials used £	93.356.959	1,147,385	5	(a)	(a)		94,928,434
Value of production £	31,600,732	1.759.507		(a)	(a)		34,381,181
Total value of output £	138,592,782	3,200,705	5	(a)	(a)		144,979,430
Value of land and buildings £	5,989,980			(a)	(a)	• • •	6,614,927
Value of plant and machinery £	25,429,949			(a)	(a)		26,394,485
Horse-power of engines ordinarily			1				
in use h.p.	327,354	9,180)	(a)	(a)		339,135
	A	USTRALIA	۸.				
Items.		1945-46.	1950-51.	1951-52.	1952–53.	1953~5	4. 1954–55.
Number of factories		27	30	30	32	3	
Number of persons employed .		10,413	13,419	14,192	16,188	16,68	
Salaries and wages paid	C1000	4,164	9,245	11,904	14,455	15,60	9 18,238
Value of power, fuel, etc., used .	C1000	2,777	7,896	11,186	14,085	15,43	0 15,670
Area and the first stand of	. £'000	19,134	40,580	53,342	76,983	88,80	2 94,928
Value of production	C2000	7,393	16,594	20,311	27,336	27,99	5, 34,381
Total value of output	C7000	29,304	65.070	84,839	118,404	132,22	
Malue of land and building	£'000	2,197	3,259	4.064	5,278	6,50	8 6,615
Value of plant and machinery .	£'000	5,669	9,191	14,992	20,753	24,27	9 26,394
Horse-power of engines ordinarily i			216,617	218.857	248,440	287.61	8 339,135

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

Particulars of the production of pig-iron and steel will be found in Chapter XXVII.---Mineral Industry.

(iii) Foundries (Ferrous). Particulars covering those industries classified as founding of iron and steel are shown for each State for 1954-55 and for Australia in selected years in the following table :—

		- 1754-5					
Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia
Number of factories	<u> </u>	216	22		16		368
Number of persons employed.	2,830	2,693	627		408		7,099
Salaries and wages paid £	2,486,051	2,330,830	474,998	492,609	331,568		6,116,056
Value of power, fuel, etc., used £	302.073	264,684	39,977	99,227	90,158		796,119
Value of materials used £	1.930.099	1.820.062	483,680	377,716	269,722		4.881.279
Value of Production £	3.372.203	3,505,676	782,380	825,466	497,060		8,982,785
Total value of output £	5.604.375	5.590.422	1.306.037	1,302,409	856,940		14,660,183
Value of land and buildings £	943,107	998.868					2.623.233
Value of plant and machinery £	925,939		329,432	234,249	125,279		2,342,147
Horse-power of engines ordi-		,		,		••	
narily in use h.p.	10,088	8,424	2,669	2,840	2,430		26,451

FOUNDRIES—FERROUS.

Australia.

Items.	1945-46.	1950-51.	1951-52.	1952–53.	1953-54.	1954-55.
Number of factories Number of persons employed Salaries and wages paid f '000 Value of power, fuel, etc., used f '000 Value of materials used f '000 Value of production f '000 Total value of output f '000 Value of land and buildings f '000 Value of plant and machinery f '000	161 1,210 2,341 3,712 988 619	358 7,198 4,134 475 3,262 6,024 9,761 1,570 1,357	365 7,243 5,252 633 4,331 7,622 12,586 1,736 1,574	373 6,584 4,989 642 4,026 7,337 12,005 2,144 1,923	357 6,611 5,129 702 4,057 7,469 12,228 2,299 2,123	368 7,099 6,116 796 4,881 8,983 14,660 2,623 2,342
Horse-power of engines ordinarily in use h.p.	13,381	23,976	25,107	24,467	25,415	26,451

(iv) Plant. Equipment and Machinery (including Machine Tools). The next table shows particulars for this group for each State during 1954-55 and for Australia in selected years.

PLANT, EQUIPMENT AND MACHINERY (INCLUDING MACHINE TOOLS).

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories	999	612	122	153	91	3	1,980
Number of persons employed.	24.849	21,907		8,824			
	21,530,556	18,886,946	4,343,646	7.450,964	2,210,155	138,945	54,561,212
Value of power, fuel, etc., used £	909,665	763,583	193,889	409,862	99,273	1,791	2,378,063
	32,426,784	28,152,229	5,188,549	11,702,059	2,839,054	153,401	80,462,076
Value of production £	34,238,407	31,205,243	6,365,523	11,620,605	3,455,883	154,344	87,040,005
Total value of output £	67.574.856	60,121,055	11,747,961	23,732,526	6,394,210	309,536	169880144
Value of land and buildings £	12,246,287	10,426,064	1,346,032	2,860,621	1,649,266	158,293	28,686,563
Value of plant and machinery £	9.401.386	9.058.072	1,322,478	2,368,460	1,281,480	115,737	23,547,613
Horse-power of engines ordin-			. ,				
arily in use h.p.	80,207	69,685	16,509	24,645	10,078	502	201,626

Items.		1945-46.	1950-51.	1951–52.	1952-53.	1953-54.	1954–55.
Value of power, fuel, etc., used £ Value of materials used £ Value of production £	 2000 2000 2000 2000	1,038 46,123 14,259 605 16,455 21,044	1,555 60,990 35,215 1,434 53,040 55,934	1,684 64,066 45,434 1,937 68,943 71,810 142,690	1,787 60,140 45,414 2,095 63,134 70,790 136,019	1,911 60,840 47,620 2,219 68,288 75.997 146,504	1,980 64,588 54,561 2,378 80,462 87,040 169,880
Value of land and buildings £'	'000 '000 '000 h.p.	38,104 7,227 7,046 101,810	110,408 15,904 14,968 205,736	19,383 17,870 196,664	22,332 19,784 197,031	25,259 21,335 198,300	28,687 23,548 201,626

(v) Other Engineering. Details covering jobbing and general engineering works not elsewhere included are shown for each State for 1954-55 and for Australia in selected years in the following table.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories	735	822	148	175	151		2,128
Number of persons employed.	5,970	9,416	1,550	3,060		1.655	22,540
Salaries and wages paid £	4,545,090			2,481,401			17,491,259
Value of power, fuel, etc., used £	167.653	246.037	30,502				
Value of materials used £		9.605.912		3,103,048			20,833,840
Value of production £		12,453,824			1.007.810	1,935,128	28,024,759
Total value of output £		22,305,773	2,582,151	6,763,766	1.718.397	3,380,387	49,458,252
Value of land and buildings £	3,044,019			1.666,838			11,289,358
Value of plant and machinery £	2,108,093			1,047,491			8,070,027
Horse-power of engines ordi-		-,		-,,			0,010,021
narily in use h.p.	15,719	29,507	3,994	8,616	3,009	5,561	66,406
<u> </u>		AUSTRA	LIA.				
Items.		1945-4	6. 1950–51	. 1951–52	. 1952-53	1953-54	1954-55.
Number of factories	••	. 963	1.627	1,853	1.975	2,041	2,128
Number of persons employed		13,112		20,398	20,005	20,981	22,540
Salaries and wages paid	£'0			13,124	13,804	15,100	17,491
Value of power, fuel, etc., used	£'0			413	460	530	599
Value of materials used	£'0			14,268	14.041	16.427	20,834
Value of production	£'0			20,681	21,551	23,755	28,025
Total value of output	£'0		25,469	35,362	36.052	40.712	49,458
Value of land and buildings	£'0	2.369	5,089	7.021	8,285	9,900	11.289
Value of plant and machinery	£'00			5,434	6.366	7.044	8.070
Horse-power of engines ordinaril				56,397	59,024	62,774	66,406

OTHER ENGINEERING.

1954-55.

8. Extracting and Refining of Non-ferrous Metals : Alloys.—The following table shows particulars of establishments engaged in metal extraction and ore reduction including secondary recovery of metals, but excluding blast furnaces engaged in production of pig iron from iron ore, for each State during 1954–55 and for Australia for a series of years. It should be noted that as "Ore Beneficiation and Concentration", formerly included as part of this section of Manufacturing Industry, was transferred to the Mining Industry in 1952–53 details for that and later years are not comparable with those for 1951–52 and earlier years.

EXTRACTING AND REFINING OF NON-FERROUS METALS : ALLOYS. 1954–55.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories Number of persons employed Salaries and wages paid £ Value of power, fuel, etc., used £ Value of production £ Total value of output £ Value of pant and machinery £ Horse-power of engines ordi- narily in use h.p.	28 1,505 1,420,481 557,954 13,345,691 2,247,303 16,150,948 643,229 1,010,981 9,189	290 264,770 41,780 2,623,926 668,154 3,333,860 206,027 130,173	484 501,587 767,539 13,436,545 1,869,061 16,073,145 945,691 1,271,170	(b) (b) (b) (b)	(b) (b) (b) (b) (b) (b) (b) (b) (b) (b)	(b) -	62 6,782 6,432,085 3,252,480 62,859,377 14,147,934 80,259,791 3,044,047 6,018,510 66,280
		AUSTRA	LIA.			1	1
Items. Number of factories		1938-3 42 5,532	65	1951-52 67 7,812	1952-53. (c) 59 6,958	$ \begin{array}{r} 1953-54. \\ (c) \\ 59 \\ 6.592 \end{array} $	1954–55. (c) 62 6,782

			-			(0)	(0)	(0)
Number of factories	••		42	65	67	59	59	62
Number of persons employed	••		5,532	7,664	7,812	6,958	6,592	6,782
Salaries and wages paid	••	£'000	1,613	5,268	6,515	6,085	6,069	6,432
Value of power, fuel, etc., used	••	£'000	598	2,323	3,130	2,803	3,063	3,253
Value of materials used	••	£'000	16,844	59,735	71,097	44,481	53,711	62,859
Value of production	••	£,000 (3,892	20,435	27,496	14,163	12,648	14,148
Total value of output		£'000 [21,334	82,493	101,723	61,447	69,422	80,260
Value of land and buildings	••	£'000	1,177	2,017	2,075	2,669	2,743	3,044
Value of plant and machinery		£.000	3,526	4,723	4,936	4,371	5,390	6,019
Horse-power of engines ordinari	y in u	se h.p.	54,450	88,410	81,567	70,424	65,067	66,280

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

9. Electrical Machinery, Cables and Apparatus.—The following table shows particulars of this industry for each State during 1954-55 and for Australia for a series of years.

Items.	N.S.W.	Vietoria					
	14.5. 44. ;	victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
er of factories	515	344	61	66	64	14	1,064
er of persons employed	28,424	9,686	1,433	1,479	810	175	42,007
es and wages paid £	23,199,586			1.044.715		132.378	3,403,039
							1 650,699
							4,636,930
						89,546	6,884.697
	0,205,720	1,152,500	421,505	200,100	110,572	10.,020	
	55 440	17 697	4 574	1 849	1 237	261	81,058
	55,110			1,012			
		AUSTRAL	JA.				
		1		1	1		1
Items.		1938-39	9. 1950–51.	. 1951-52	.] 1952–53.	1953-54.	1954-55.
			I.				I
er of factories		. 360	867	928	965	1,028	1,064
			35,494	36.772	31,949	38,377	42.007
	C200				22,903	28,969	33,403
			637	976	991	1,391	1,651
	C100		31.680	40,704	36,668	58,237	69,962
	C100	0 3,655	30,867	38,244	38.633	49.032	54,637
	C200					108,660	126,250
	£200					13.829	16,885
							11,915
					66,512	74,088	81,058
of power, fuel, etc., used £ of materials used £ of production £ value of output £ of land and buildings £ of plant and machinery £ power of engines ordi- ly in use h.p. Items.	1,279,305 49,984,012 39,217,143 90,480,460 11,332,042 8,283,920 55,440 55,440 £'00 £ £'00 £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ 5 5 5 	288,200 15,983,970 11,231,304, 27,503,474 4,181,513 2,732,568 17,697 AUSTRAI 1938–35	26,530 1,850,115 1,475,804 3,352,449 405,007 437,565 4,574 .IA. . 1950–51. 	31(69) 1,193,011 1,479,514 2,704,224 474,554 238,155 1,849 	18,748, 716,614 946,705 1,682,067 402,035 118,372 1,237 1,277 1,27	6,217 234,585 527,262 89,546 104,320 261 1953–54. 1,028 38,377 28,969 1,391 58,237 49,032 108,660 113,829 9,709	1 650, 6 99,962, 3 54,636,55 1262499 16,884,6 11,914,5

ELECTRICAL MACHINERY, CABLES AND APPARATUS. 1954–55.

10. Railway and Tramway Workshops (Government and Local Authority).—The railway and tramway workshops, which form an important part of Class IV., are chiefly owned by State Governments and Local Authorities. *Workshops* (fourteen in 1954-55) controlled by non-public bodies are not included in the figures below :—

TRAMCARS AND RAILWAY ROLLING STOCK.(a)

1954-55.

						·	
Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories	42	22		14	25	7	123
Number of persons employed	15,877	7,281	6,527	4,434	3,570	910	38,599
Salaries and wages paid £	12,955,365		4,534,554	3,846,329	2.688.604	658,068	30,776.533
Value of power, fuel, etc., used £	426,284	210,171	123,591	159,064	84,047		1,025,463
Value of materials used £	6.868.387	4,658,666	2,613,953	2,845,189	1.491.215	340,180	18,817,590
Value of production . , £	15.251.237	7.839.017	5,374,180	4,979,109	3,199,468		37,505,295
Total value of output £	22,545,908	12,707,854	8,111,724	7,983,362	4,774,730		
Value of land and buildings £	5,627,763	1,829,148		1,307,222			10,523,828
Value of plant and machinery £	8,231,201	987,443	992,248	1,616,508	974,038		13,123,844
Horse-power of engines ordi-				· ·	-		
narily in use h.p.	43,322	20,521	16,728	1 17,948	10,415	3,250	112,184
	·	AUSTRA	LIA.				
						1	
Items.		1938-3	9. 1950-51	. 1951-52	1952-53.	1953-54.	1954-55.
				1			
Number of factories		. 117	126	126	123	124	123
Number of persons employed		. 27,310	38,253	38,499	39,073	39,262	38,599
Salaries and wages paid	£'00		20,914	26,281	28,002	28,425	30,777
Value of power, fuel, etc., used	£'00			812	907	994	1.025
Value of materials used	£'00	00 ' 4,976	5 12,165		16,706	17,093	18,818
Value of production	£'00	0 , 8,02	25,738	31,375	33,875	34,354	37,505
Total value of output	£'00	0 13,223	3 38,520	47,338	51,488	52,441	57,348
Value of land and buildings	£'00	0 6,737	7 1 7,983	8,786	9,279	9,730	10,524
Value of plant and machinery	£'00			9,218	10,701	12,166	13,124
Horse-power of engines ordinaril	y in use h.	p. 53,67	1 93,567		98,251	108,478	112,184

(a) Government and Local Authority only.

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

11. Motor Vehicles.—The industries catering for the motor trade are included in Class IV., Industrial Metals, Machines and Conveyances. In the table below a summary is given of the principal statistics for 1954-55 for each branch of industry associated with the motor trade of Australia.

MOTOR VEHICLES : CONSTRUCTION, ASSEMBLY, REPAIRS, ETC., AUSTRALIA. 1954–55.

Items.			Construc- tion and Assembly.	Repairs.	Motor Bodies. (a)	Motor Acces- sories.	Total.
Number of factories			69	7.531	1,183,	210	8,993
Number of persons employed			16,778	49,955	23,352	8,258	98,343
Salaries and wages paid		£	15,279,280	31,575,125	19,453 676	6,765,336	73,073,417
Value of power, fuel, etc., used	••	£	674,797	982,496	693,505	447,444	2,798,242
Value of materials used		£	25,755.967	32,520,620	41,881,111		108,118,667
Value of production	••	£	25,143,683	48,875,345	27,929,115		112,541,356
Total value of output		£	51,574,447	82,378,461	70,503,731		223,458,265
Value of land and buildings		£	8,582,774	33,964,699	9,010,630	3,893,358	55,451,461
Value of plant and machinery	••	£	5,152,187	9,901,800			26,072 781
Horse-power of engines ordinarily	in use	h.p.	34,187	53,511	44,011	28,292	160,001

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

In the next table similar details are shown on a State basis for 1954-55 and for Australia for selected years for these branches combined.

MOTOR VEHICLES : CONSTRUCTION, ASSEMBLY, REPAIRS, ETC.

1954-55.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories	3,723	2.344	1,127	719	808	272	8.993
Number of persons employed	31,731	32,449	9,585			1,947	98,343
Salaries and wages paid £	22,379,831	25,521,360	5.688.476	13,864,523	4,374,072	1,245,155	73,073 417
Value of power, fuel, etc.,		1		. ,			·
used £	910,987			522,745	174,777		
Value of materials used £	27,691,262	39,458,760	6,022,943	27,427,257	6.220,809	1,297,636	108,118,667
Value of production £	36,742,766	36,788,347	11.030,922	18,875,270	7 189 175	1,914,876	112,541,356
Total value of output £	65,345,015	77,222,028	17,239,283	46,825,272	13,584,761	3 241 906	223,458,265
Value of land and buildings£							
Value of plant and mach-		1					
inery £	8,723,835	9,172,226	1.566.483	4.906.624	1.345.947	357,666	26,072,781
Horse-power of engines ordi-	1	1 1					
narily in use h.p.	47,615	56,445	11,022	31,476	11,516	1,927	160,001

AUSTRALIA.

1945-46.	1950–51.	1951–52.	1952-53.	195354.	1954–55.
3,592 39,706 10,582 395 12,143 15,818 28,356 9,878 3,758	5,730 75,580 38,789 1,215 48,542 60,592 110,349 23,361 11,495	6,587 82,123 51,799 1,610 70,967 78,808 151,385 30,799 14,982	7,422 82,609 54,666 1,987 74,405 86,305 162,697 38,718 20,129	8,302 89,913 62,454 2,477 94,173 101,054 197,704 45,835 23,397	8,993 98,343 73,073 2,798 108,119 112,541 223,458 55,451 26,073 160,001
1	3,592 39,706 10,582 395 12,143 15,818 28,356 9,878	3,592 5,730 39,706 75,580 10,582 38,789 395 1,215 12,143 48,542 15,818 60,592 28,356 110,349 9,878 23,361 3,758 11,495	3,592 5,730 6,587 39,706 75,580 82,123 10,582 38,789 51,799 395 1,215 1,610 12,143 48,542 70,967 15,818 60,592 78,808 28,356 110,349 151,385 9,878 23,361 30,799 3,758 11,495 14,4982	3,592 39,706 75,580 82,123 82,609 10,582 38,789 1,215 1,610 1,987 12,143 1,242 1,610 1,987 1,215 1,620 1,215 1,405 1,	39,706 75,580 82,123 82,609 89,913 10,582 38,789 51,799 54,666 62,454 395 1,215 1,610 1,987 2,477 12,143 48,542 70,967 74,405 94,173 15,818 60,592 78,808 86,305 10,054 28,356 110,349 151,385 162,697 197,704 9,878 23,361 30,799 38,718 45,835 3,758 11,4952 14,982 20,129 23,397

The table below shows the production and imports of motor bodies for 1938–39 and 1950-51 to 1955-56 :=

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

Items.	1938–39.	1950-51.	1951–52.	1952-53.	1953–54.	1954-55.	1955–56. (b)
Motor Bodies(a)	79,436 6,421	92,718 18,465	98,470 22,663	90,822 22,536	114,745 27,969	127,709 31,620	133,680 (c)
Assembled from imported Panels No. Imported(e) No. Value £'000	(d) 532 64	33,212 92,791 14,275	29,205 101,628 16,657	21,566 7,568 1,441	43,077 26,874 5,956	59,863 37,924 6,456	95,186 ()19,041 (g) 387

(a) Excludes sidecars.
 (b) Preliminary-subject to revision.
 (c) Not available.
 (c) Includes bodies on complete vehicles imported.
 (f) Includes 16,097
 bodies on complete vehicles imported for which value is not available.
 (g) Bodies not forming part of a complete vehicle.

12. Agricultural Machines and Implements.—Owing to the extensive agricultural activities conducted in Australia and the demand for modern mechanized farm equipment, the manufacture of agricultural implements constitutes an important branch of Australian

industry. The articles manufactured include a wide range of implements for tillage, seeding, and planting and the harvesting of crops. Other farm machinery made includes windmills, chaff-cutters and machinery used in the dairying industry.

The following table shows details of establishments classified as agricultural implement works in each State for 1954-55 and for Australia for a series of years.

AGRICULTURAL MACHINES AND IMPLEMENTS.

1954-55.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories	124		41		28		308
Number of persons employed	2,178	6,487	1,503	1,638	376		12,182
Salaries and wages paid £	1,772,036	5,798,133	1,012,602	1,332,110	291,313		10,206,194
Value of power, fuel, etc., used £	88,344	445,757	52.678	97,249	10,895		694,923
Value of materials used £		8,878,699		1,698,774		••	13,572,611
Value of production		8,165,875					14,557,837
Total value of output £		17,490,331	2,475,552		631,648	••	28,825,371
Value of land and buildings £		2,136,976				••	5,037.525
Value of plant and machinery £	784,595	2,556,701	376,528	455,408	108,759		4,281,991
Horse-power of engines ordi-							1
narily in use h.p.	7,096	19,844	5,134	6,873	911	••	39,858

1938-39. 1950-51, 1951-52, 1952-53, 1953-54. 1954-55. Items. 225 Number of factories 161 257 270 293 308 • • 293 11,930 9,473 637 Number of persons employed Salaries and wages paid ... Value of power, fuel, etc., used Value of materials used ... 12.481 12,182 6,563 1,373 11.651 11.608 6,894 433 9,952 9,854 20,239 9,044 555 13,521 £'000 8,838 10.206 82 £'000 600 695 13,572 14,558 28,825 £'000 1.485 11,103 12.988 13,051 27,127 3,320 3,365 12,787 24,490 3,701 3,526 Value of production £'000 1,836 3,403 13,924 . . £'000 Total value of output Value of land and buildings £'000 ,403 997 2,814 3,918 5,038 . . Value of plant and machinery £,000 911 .526 ,627 39,843 Horse-power of engines ordinarily in use h.p. 13,346 33,464 34,598 37,372 39,858

13. Wireless and Amplifying Apparatus.—The introduction of wireless broadcasting in 1923 gave rise to a new industry in Australia. Early statistical details of the industry are not available as they were grouped together with other electrical apparatus. In 1930–31, a new classification of factories was adopted and "Wireless Apparatus" was shown as a separate industry. The industry is confined mainly to New South Wales and Victoria, but is becoming increasingly important in South Australia. The number of broadcast listeners' licences increased from a third of a million in 1930–31 to over two million at 30th June, 1956 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 APPA	ARATUS : A	AUSTRALIA.
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Items.	1938-39.	1950–51.	1951-52.	1952–53.	1953-54.	1954-55.
Number of factories	72	139	141	149	162	175
	4,828	10,628	8,733	6,912	8,125	8,550
	754	5,140	5,361	4,707	5,751	6,398
	23	147	184	179	199	205
	1,356	9,229	8,487	7,661	9,782	10,076
	1,123	7,219	7,023	6,042	7,454	8,624
	2,502	16,595	15,694	13,882	17,435	18,905
	558	1,339	1,586	1,713	2,011	2,300
	305	946	980	969	1,132	1,242
	2,710	13,565	12,055	10,596	9,274	8,930
	163,821	459,436	358,379	298,955	437,513	453,020

(a) Including radiograms and car radios.

Note.—There were 455,168 domestic wireless receiving sets and 2,636 television receiving sets made in 1955-56.

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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 over 2.5 million lb. in the five years ended 1954–55. 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. The downward trend which commenced with the war in the Pacific persisted until recent years but production has recently risen and in 1954–55 amounted to 3,597,000 lb. The growing of cotton, which is restricted to Queensland, is referred to in some detail in Chapter XXII.— Agricultural Production.

(ii) Ginning. The ginning and marketing of cotton is controlled by the Queensland Cotton Board. The Board operates ginneries and processes by-products. The production of raw cotton is insufficient for local factory requirements and is supplemented by imports from overseas, chiefly (in 1954-55) from India, Pakistan, Brazil, Egypt, Peru and the United States of America.

(iii) Spinning and Weaving. The recent expansion in the spinning and weaving section of the cotton industry marks an important event in its development. New factories have been established and Australia is now producing an extensive range of cotton goods, including duck and canvas from cotton or flax, denims, drill, etc., tyre cord and tyre cord fabric. The number of establishments engaged in cotton spinning and weaving in Australia and other particulars of the industry are shown in the following table for the years 1938-39, and 1950-51 to 1954-55.

Items.		1938-39.	1950-51.	1951–52.	1952–53.	1953-54.	1954-55.	
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings Value of plant and machinery Horse-power of engines ordinaril	··· ··· ··· ···	£'000 £'000 £'000 £'000 £'000 £'000 £'000	33 3,589 493 50 1,357 979 2,386 704 736 9,128	91 9,233 4,473 441 16,873 7,534 24,848 3,215 4,020 31,468	94 8,840 5,297 554 20,803 9,272 30,629 3,695 4,214 32,285	93 7.673 5.090 551 14,747 8,126 23,424 3,951 4,370 36,517	96 9,470 6,602 690 18,083 10,809 29,582 4,104 4,411 33,201	96 9,582 6,845 706 18,505 11,343 30,554 4,355 34,356

COTTON SPINNING AND WEAVING : AUSTRALIA.

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

WOOL CARDING, SPINNING AND WEAVING.

1954-55.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories Number of persons employed Salaries and wages paid £ Value of power, fuel, etc., used £ Value of production £ Total value of output £ Value of plant and machinery £ Horse-power of engines ordi- narily in use h.p.	19,509,102	11,322 7,373,330 651,693 19,138,662 11,522,164 31,312,519 4,171,552 6,080,917	872 438,367 33,444 1,618,077 601,304 2,252,825 188,628	353,297 36,503 890,323 570,611 1,497,437 37,574	(a) (a) (a) (a) (a) (a) (a) (a)	5 (a) (a) (a) (a) (a) (a) (a) (a) (a) (a)	151 21,844 13,945,474 1,238,440 38,937,599 21,897,501 62,123,540 7,368,623 10,052,716 66,817

WOOL CARDING, SPINNING AND WEAVING-continued.

*								
Items.			1938-39. (b)	1950–51.	1951–52.	1952-53.	1953–54.	1954-55.
Number of factories		•••	90	176	181	171	164	151
Number of persons employed			19,608	24,333	21,244	19,729	22,619	21,844
Salaries and wages paid	• •	£'000	2,888	11,349	11,543	12,028	14,382	13,945
Value of power, fuel, etc., used		£'000	393	952	1,057	1,175	1,329	1,288
Value of materials used		£,000	7,331	53,872	44,064	34,655	45,033	38,938
Value of production	••	£'000	4,791	18,610	16,272	19,226	23,237	21,898
Total value of output	••	£'000	12,515	73,434	61,393	55,056	69,599	62,124
Value of land and buildings	••	£'000	2,380	5,369	6,161	6,242	6,894	7,369
Value of plant and machinery	••	£'000	3,370	6,898	7,881	8,183	9,086	10,053
Horse-power of engines ordinaril	y in u	ise h.p.	42,944	69,070	69,232	67,911	68,715	66,817
Articles produced	-	-					-	
Woollen and worsted cloth (c)(a	1)'00	o sq. yds.	31,768	38,454	29,790	29,400	35,027	31,067
Blankets and rugs (c)	•••	''000	1,279	2,068	1,382	1,035	1,340	1,673

(a) Not available for publication; figures are included in the total for Australia. (b) Includes Woolscouring Works in Victoria and Tasmania and Woolscouring Works and Fellmongeries in South Australia. (c) Includes production in other industries. (d) Includes mixtures.

16. Hoisery and Other Knitted Goods.—Details for each State for 1954-55 and for Australia for a series of years are shown in the following table :—

HOSIERY AND OTHER KNITTED GOODS.

1954-55.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.					
Number of factories Number of persons employed Salaries and wages paid £ Value of power, fuel, etc., used £ Value of production £ Total value of output £ Value of pland and buildings £ Value of plant and machinery £ Horse-power of engines ordi- narily in use h.p.	8,996,431 19,088,342	15,851 9,736,036 412,962 19,485,472 17,485,174 37,383,608 5,825,061 5,493,936	330,793 9,971 1,588,471 747,535 2,345,977 172,899 232,666	50,630 2,812 83,402 83,673 169,887 37,567 25,691	99,920 3,356 243,062 163,473 409,891 78,962 43,997	2,201 50,065 58,506 110,772 37,632	661 24,614 15,116,598 656,277 31,317,408 27,534,792 59,508,477 8,642,606 7,916,591 20,884					

Items.		1938–39.	1950–51.	1951–52.	1952–53.	1953–54.	195455
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings Value of plant and machinery Horse-power of engines ordinari	 £'000 £'000 £'000 £'000 £'000 £'000 £'000 £'000	313 18,159 2,332 133 4,284 3,809 8,226 1,962 1,962 1,963 8,884	510 22,268 9,605 386 22,834 16,257 39,477 4,755 4,905 16,925	548 21,342 11,179 480 24,517 18,028 43,025 5,602 5,894 19,677	587 20,694 11,641 588 23,939 21,164 45,691 6,329 6,038 17,997	645 23,937 14,277 684 30,372 26,155 57,211 7,253 7,201 18,478	661 24,614 15,117 656 31,317 27,535 59,508 8,643 7,917 20,884

AUSTRALIA.

The following quantities of yarn were used in these establishments during 1954-55 :---Worsted, 8,497,565 lb.; woollen, 101,524 lb.; wool or worsted and cotton, 249,812 lb.; wool or worsted and rayon, 1,088,392 lb.; cotton, 8,197,738 lb.; mercerised cotton, 759,368 lb.; cotton and rayon, 22,512 lb.; rayon, spun, 1,252,580 lb.; rayon filament, 4,353,592 lb.; silk, 49,889 lb.; nylon, spun, 601,670 lb.; nylon filament, 1,685,135 lb.; other, 496,286 lb. Production of garments and stockings is shown in § 10 (see p. 234).

AUSTRALIA.

INDIVIDUAL INDUSTRIES.

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

TANNING, CURRYING AND LEATHER DRESSING.

1954-55.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories	69	42	13	10	5		1 140
Number of persons employed	1,950	2,377	625	223	(a) [(a)	5,393
Salaries and wages paid £	1,756,878	1,972,290	443,001	183.236	(a)	(a)	4.518,319
Value of power, fuel, etc., used £	188,304	156,236	34,473	17.504		(a)	408,494
Value of materials used £	4,311,882	3,965,727	1,472,535	485,265		(a)	10,674,538
Value of production £	2,471,116	3,091,621	666,919	278,483		(a)	6,742,529
Total value of output £	6,971,302	7,213,584	2,173,927	781,252		(a)	17,825,561
Value of land and buildings £	945,853	1.032,879	103.788	88,884		(a)	2,218,566
Value of plant and machinery £	881,224	823,121	217,940	148,343	(a)	(a)	2,128,409
Horse-power of engines ordi-						. ,	1
narily in use h.p.	13,012	12,490	3,481	1,655	(a)	(a)	31,708

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

AUSTRALIA.

Items.			1938–39.	1950–51.	1951–52.	1952–53.	1953–54.	1954-55.
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of materials used Value of production	···	£'000 £'000 £'000	132 4,375 920 88 2,983 1,522	143 5,362 3,200 275 8,221 4,950	143 5,274 3,889 352 8,796 5,912	141 5,240 4,163 382 9,488 5,983	142 5,445 4,464 417 10,477 6,672	140 5,393 4,518 408 10,675 6,743
Total value of output Value of land and buildings Value of plant and machinery Horse-power of engines ordinaril	 y in u	£'000 £'000 £'000 se h.p.	4,593 814 524 12,345	13,446 1,638 1,425 27,684	15,060 1,857 1,703 28,980	15,853 1,983 1,832 30,314	17,566 2,055 1,990 31,182	17,826 2,219 2,128 31,708

(ii) Materials Used and Articles Produced. The quantities of materials used and leather produced in tanneries in each State in 1954-55 are shown in the following table :---

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Materials used— Hides (cattle) No. Skins—	970,890	1,158,139	395,337	137,217	(a)	(a)	2,799,906
Calf " Goat "	757,417	(a)	(a)		(a) 		1,448,154
Sheep, including Pelts ", Marsupia ¹ ", Bark used—	2,195,760 22,955			(a) (a)		••	b3,488,635 53,462
Wattle tons Mallet and Other " Tanning extract used "	3,180 (<i>a</i>) 2,767	1,036	(a)		(a) 283 898	(a) (a)	(b) 10,191 1,475
Articles produced— Leather made—						• •	8,749
Sole and Belting lb. Harness, Upholstery sq. ft.	10,248,181 537 376 (a)	14,112,695 415,993 6,511,047	443,146		(a) (a) (a)	(a) 	35,001,029 1,432,517 12,032,346
Dressed and Upper from Hides— Sold by Measurement—							!
Patent sq. ft. All Other	(a)	(a) 17,979,326	7,330,713	3,738,268	.:. (a)	: (a)	2,723,551 46,072,798
Sold by Weight (all kinds) lb. Dressed from skins—	52,070	(a)	(a)		4,266	••	208,332
Calf sq. ft. Goat ,, ,,	4,886,223	(a)	1,545,611 (a)	••	33,324	(a) 	10,227,131
Sheep, " Marsupial ",	8,163,458 96,897	122,653	(a) (a)	(a) (a)			b12746893 294,329

TANNERIES : MATERIALS USED AND PRODUCTION, 1954-55.

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

18. Tailoring and Ready-made Clothing.—Statistics showing the distribution of this industry between States in 1954-55 and for Australia for a series of years are shown in the following table :—

TAILORING AND READY	-MADE CLUIHI	NG.
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1954-55.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.			
Number of factories	946 17,362		137			16 224	1.985			
Number of persons employed Salaries and wages paid £	9,219,031	6,333,315	1,080,617	803,463	416,736	115,033	17,968,195			
Value of power, fuel, etc., used £ Value of materials used £		12,861,441	2,054,315	1,016,698	671,622		34,237,041			
Value of production £ Total value of output £		9,723,896 22,711,994	3,953,974		1,347,004		28,030.819 62,658,058			
Value of land and buildings £ Value of plant and machinery £	4,760,166 1,375,134	2,609,921 999,003					8 916,678 2,662,814			
Horse-power of engines ordi- narily in use h.p.	4,725					42				
Australia.										

Items.	1938–39.	195051.	1951–52.	1952–53.	1953–54.	1954–55.
Number of factories	1,177 26,499 3,168 72 4,947 4,812 9,831 3,176 356	1,890 38,535 14,206 249 27,539 21,349 49,137 6,538 2,030	1,998 36,226 16,132 329 30,078 23,719 54,126 7,398 2,431	1,961 32,209 15,681 363 28,767 23,581 52,711 7,573 2,469	1,963 33.264 17,215 380 33.598 26,076 60,054 8,251 2,523	1,985 33,384 17,968 390 34 237 28,031 62,658 8,917 2,663
Horse-power of engines ordinarily in use h.p.	2,607	10,137	11,093	10,693	9,339	9,198

19. Dressmaking and Millinery Establishments.—Particulars of dressmaking and millinery establishments in Australia for the years 1938–39 and 1950–51 to 1954–55 are shown in the following table :—

DRESSMAKING	AND	MILLINERY	:	AUSTRALIA.
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Items.			1938–39.	1950–51.	1951-52.	1952–53.	1953–54.	1954-55.
Number of factories	••	•••	869	1,328	1,423	1,405	1,433	1,411
Number of persons employed Salaries and wages paid		£'000	16,398 1,653	22,557 7,568	20,912	18,913 8,490	19,197 9.230	18,014 8,975
Value of power, fuel, etc., used		£'000	33	130	149	170	187	176
Value of materials used Value of production		£'000 £'000	2,610 2,592	11,567	12,123	11,746 13,193	13,634 14,392	13,109 14,501
Total value of output		£'000	5,235	23,565	24,972	25,109	28,213	27,786
Value of land and buildings Value of plant and machinery	••	£'000	2,052	4,068	4,588	4.726	5,033	5,256 1,123
Horse-power of engines ordinaril	y in u		1,732	4,671	4,899	4,790	4,858	4,740

20. Shirts, Collars and Underclothing.—Particulars of this industry are shown below for each State for 1954-55 and for Australia for a series of years :—

SHIRTS, COLLARS AND UNDERCLOTHING.

1954--55.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories	154	173	20		18	2	392
Number of persons employed.	4.274	6.337	998	(a)	617	(a)	12,745
Salaries and wages paid £	2,276,601	3,481,097	446,994	(a)	263,357	(a)	6,701,897
Value of power, fuel, etc., used £	38,752		7,347	(a)	4,555	(a)	106,150
Value of materials used £	5,992,906	7,656,525	693,186		422,865	(a)	15,019,445
Value of production £	3,730,516	5 790,252	707,778		365,043	(a)	10,926,992
Total value of output £	9,762,174	13,498,489	1,408,311	(a)	792,463	(a)	26,052,587
Value of land and buildings £	985,949	1,358,474			119,463	(a)	2,719,111
Value of plant and machinery £	371.511	543,349	56,951	(a)	51,707	(a)	1,053,186
Horse-power of engines ordi-		,					
narily in use h.p.	1,533	2,236	344	(a)	190	(a)	4,468

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

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INDIVIDUAL INDUSTRIES.

	AUSTRALIA									
Items.			1938–39.	1950-51.	1951-52.	1952–53.	1953–54.	1954–55.		
Number of factories Number of persons employed Salaries and wages paid Value of power fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings Value of plant and machinery Horse-power of engines ordinaril		£'000 £'000 £'000 £'000 £'000 £'000 £'000	283 11,081 1,143 23 2,651 1,761 4,435 946 231 1,874	410 12,870 4,452 72 10,730 7,503 18,305 2,155 845 6,017	419 12,640 5,361 82 12,333 8,715 21,130 2,091 885 5,189	379 9,657 4,397 76 9,670 7,524 17,270 2,151 846 4,779	379 11,156 5,684 92 12,077 9,377 21,546 2,417 905 4,320	392 12,745 6,702 106 15,020 10,927 26,053 2,719 1,053 4,468		

SHIRTS, COLLARS AND UNDERCLOTHING—continued.

21. Boots and Shoes.—(i) Details of Industry. The boot and shoe factories hold an important place both in regard to employment afforded and extent of output. The following tables refer to boot and shoe factories as distinct from those devoted to repairing. except in Tasmania, where it has been necessary to include details of boot and shoe repairing, in order to avoid disclosure of confidential information for that State. Factories engaged in the manufacture of rubber boots and shoes are excluded, being classified under Rubber Goods, see para. 38, page 262.

BOOTS AND SHOES. 1954–55.

		1954-5	· <u>··</u>				
Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.(a)	Australia.
Number of factories Number of persons employed Salaries and wages paid f Value of power, fuel, etc., used £ Value of materials used £ Value of materials used £ Value of production f Total value of output f Value of land and buildings £ Value of land and buildings £ Value of plant and machinery £ Horse-power of engines ordi- narily in use h.p.	83,335 6,331,025 6,517,682 12,932,042 1,278,450 822,825	11,422 7,326,002 108,569 11,689,797 10,147,236 21,945,602 1,767,475	876,290 11,542 1,313,233 1,130,551 2,455,326	1,339 879,878 14,030 1,066,321 1,167,483 2,247,834 283,692	395,058 7,914 481,114 540,841 1,029,869 149,267 132,424	1,339 138,272 136,740 276,351	• •
		AUSTRA	LIA.				
Items.		19454	6. 1950-51	. 1951-52	. 1952-53	1953–54	. 1954–55.
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of materials used Total value of output Total value of output Value of land and buildings Value of plant and machinery Horse-power of engines ordinarily	£'00 £'00 £'00 £'00 £'00 £'00	00 7,520 00 7,520 00 6,472 00 14,067 00 1,518 00 1,222	23,783 10,215 110,215 111 115,390 114,611 1130,142 22,2822 22,265	22,775 12,405 172 18,058 17,162 35,392 3,310 2,402	20,920 12,430 197 17,668 17,162 35,027 3,227 2,653	520 22,953 14,215 20,508 19,444 40,177 3,491 3,152 16,679	22.323 14,241 227 21,020 19,640 40,887 3,733

(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 1954-55 in the following table. Particulars relating to the output of rubber boots and shoes are not included :--

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Quantity— Boots, shoes and sandals pairs Slippers ", Value—		9,432,946 4,290,782			556,275 398,590	(a) (a)	19,880,642 7,323,810
	11,866,422 1,392,636	17,976,281 2,387,926	2,049,965 215,539		762,603 281,736	(a) (a)	35,019,580 4,326,028

BOOT AND SHOE FACTORIES : OUTPUT, 1954-55.

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

22. Flour-milling.—(i) Details of Industry. The following table shows the position of the grain-milling industry in each State for the year 1954-55 and for Australia for a series of years :—

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories Number of persons employed Salaries and wages paid £ Value of power, fuel, etc., used £ Value of materials used £ Value of production £ Total value of output £ Value of pland and buildings £ Value of plant and machinery £ Horse-power of engines ordi- narily in use h.p.		1,077,712 166,399 15,559,789 1,800,634 17,526,822 1,182,064 1,245,359	(a) (a) (a) (a) (a)	601,462	416,199 110,402 6,250,307 705,717 7,066,426 755,517 602,791	10 (a) (a) (a) (a) (a) (a) (a) (a) (a)	151 4,528 3,850,861 805,016 54,435,552 7,311,394 62,551,962 4,533,187 5,060,266 46,566

FLOUR-MILLING.

1954-55.

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

AUSTRALIA.

Items.			1938-39.	1950-51.	1951-52.	1952-53.	1953-54.	1954–55.
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings Value of plant and machinery Horse-power of enines ordinaril	··· ··· ··· ···	£'000 £'000 £'000 £'000 £'000 £'000 £'000	172 3,783 896 231 10,573 2,091 12,895 2,091 1,814 27,795	165 4,842 2,933 545 34,350 5,636 40,531 3,177 3,408 38,413	162 4,681 3,466 730 45,576 7,313 53,619 3,606 4,106 41,824	158 4,892 3,884 866 51,373 8,296 60,535 3,912 4,531 44,781	157 4,602 3,847 53,946 8,134 62,927 4,260 4,921 52,545	151 4,528 3,851 805 54,436 7,311 62,552 4,533 5,060 46,566

(ii) Production of Flour and By-products. The production of flour by the mills in each State (including other than flour mills) for the years 1938-39 and 1950-51 to 1955-56 was as follows :---

N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia
547,162	436,829	84,314	146,262	138,583	19,582	1,372,73
597,491	447,784	112,995	162,259	161,251	27,243	1,509.02
694,036	448,881	116,503	189,962	218,841	27,336	1,695,55
578,686	559,224	124,703	206,856	223,936	27,745	1,721,15
543,693	592,465	132,839	201,685	227,269	28,349	1,726,30
603,575	473,842	138,524	164,907	197,654	30,556	1,609,05
586,549	455,906	157,904	143,840	178,851	29,969	1,553,01
548,880	451,540	168,138	151,632	186,028	27,660	1,533,87
	547,162 597,491 694,036 578,686 543,693 603,575 586,549	547,162 436,829 597,491 447,784 694,036 448,881 578,686 559,224 543,693 552,465 603,575 473,842 586,549 455,906	547,162 436,829 84,314 597,491 447,784 112,995 694,036 448,881 116,503 578,686 559,224 124,703 543,693 592,465 132,839 603,575 473,842 138,524 586,549 455,906 157,904	547,162 436,829 84,314 146,262 597,491 447,784 112,995 162,259 694,036 448,881 116,503 189,962 578,686 559,224 124,703 206,856 543,693 592,465 132,839 201,685 603,575 473,842 138,524 164,907 586,549 455,906 157,904 143,840	547,162 436,829 84,314 146,262 138,583 597,491 447,784 112,995 162,259 161,251 694,036 448,881 116,503 189,962 218,841 578,686 559,224 124,703 206,856 223,936 543,693 592,465 132,839 201,685 227,269 603,575 473,842 138,524 164,907 197,654 586,549 455,906 157,904 143,840 178,851	547,162 436,829 84,314 146,262 138,583 19,582 597,491 447,784 112,995 162,259 161,251 27,243 694,036 448,881 116,503 189,962 218,841 27,336 578,686 559,224 124,703 206,856 223,936 27,745 543,693 592,465 132,839 201,685 227,269 28,349 603,575 473,842 138,524 164,907 197,654 30,556 586,549 455,906 157,904 143,840 178,851 29,969

FLOUR-MILLING : PRODUCTION OF FLOUR. (Tons of 2,000 lb.)

In addition, 587,000 tons (2,000 lb. per ton) of bran and pollard were made in 1954-55 and 586,000 tons in 1955-56. The total quantity of wheat ground in flour mills was 70,571,805 bushels in 1954-55 and 70,871,195 bushels in 1955-1956.

INDIVIDUAL INDUSTRIES.

23. Bakeries.—Information regarding establishments in which the manufacture of bread, cakes, etc., was carried on is given in the table below. It should be noted, however, that the details refer only to establishments coming within the definition of a factory as explained at the beginning of this section. For that reason, the tables do not give complete details of the industry, as a large number of bakehouses not coming within the definition 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).

1954-55.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.(a)	Australia.
Number of factories Number of persons employed Salaries and wages paid £ Value of power, fuel, etc., used £ Value of materials used £ Value of production £ Total value of output £ Value of land and buildings £ Value of plant and machinery £ Value of plant and machinery f	783,623 12,685,780 9,064,798 22,534,201	5,411 3,002,065 534,787 9,520,782 6,909,807 16,965,376 4,224,463	3,819,490 2,620,392 6,648,851 1,246,454	1,562 857,195 148,139 2,896,413 1,923,718 4,968,270 1,138,732	1,036 514,905 100,560 1,970,841 1,235,151 3,306,552 780,604	1,540 1,028,253 125,555 5,005,654 1,828,532 6,959,741 1,231,078	
narily in use h.p.	8,703	6,968	2,750	2,799	1,663	4,932	27,815

(a) Includes confectionery.

Items.			1938–39.	1950-51.	1951–52.	1952–53.	1953-54.	1954-55.
Number of factories			1,958	3,167	3,347	3,534	3,687	3,800
Number of persons employed			11,715	17,929	18,332	18,405	18,758	19,125
Salaries and wages paid	• •	£'000	1,993	6,942	8,571	9,368	9,954	10,648
Value of power, fuel, etc., used	••	£'000	306	1,116	1,486	1,694	1,805	1,902
Value of materials used		£'000	6,651	20,786	26,451	29,672	32,829	35,899
Value of production		£'000	4,509	14,873	18,624	21,788	23,107	23,582
Total value of output		£'000	11,466	36,795	46,561	53,154	57,741	61,383
Value of land and buildings		£,000	4,960	9,199	10,789	12,145	13,617	14,352
Value of plant and machinery		£'000	1,478	4,078	5,082	6,073	7,158	8,373
Horse-power of engines ordinaril	v in t	use h.p.	10,855	20,483	22,248	23,792	26.462	27,815

AUSTRALIA.

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

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

	su	JGAR-MI	LLS.			
Items.	1938-39.	1950-51.	1951-52.	1952-53.	1953-54.	1954-55.
	Nev	V SOUTH V	VALES.	· · · · · · · · · · · · · · · · · · ·		<u> </u>
Number of factories Number of persons employed Cane crushed tons Raw sugar produced (94 net titre) tons	3 212 337,038 45,106	3 282 359,849 41,258	3 176 321,388 41,060	3 138 125,714 14,272	3 156 263,249 34,004	3 187 222,313 26,301
	1	QUEENSLAN	l			i
Number of factories Number of persons employed Cane crushed tons Raw sugar produced (94 net titre) tons Molasses Sold to distilleries'000 gals Used as fodder, ", Used as manure, ", Run to waste, ", Burnt as fuel, ", Sold or used for other pur- poses	33 4,419 5,432,193 775,064 8,276 4,237 3,293 3,749 3,749 232 20,286	32 6,394 6,691,704 879,844 15,234 5,582 5,555 2,371 581 29,373	31 5,612 5,005,172 704,341 12,557 5,900 5,484 37 1,005 324 25,307	31 6,495 6,841,536 934,614 15,774 5,887 7,499 76 934 426 30,596	31 7,358 8,751,063 1,220,383 23,323 5,486 11,466 168 183 516 41,142	31 7,272 9,864,304 1,301,245 23,167 5,753 10,501 233 1,079 473 41,206

25. Sugar-refining.—The establishment of the sugar-refining industry considerably antedates the establishment of the sugar-milling industry, the raw material operated on in the earlier years coming chiefly from Mauritius and the East. In 1954–55, there were two sugar refineries in Queensland and one each in New South Wales, Victoria, South Australia and Western Australia. The quantity of raw sugar treated amounted to 502,261 tons for a yield of 481,639 tons of refined sugar.

26. Confectionery.—The figures for 1954-55 for each State and for Australia for a series of years are shown hereunder :—

CONFECTIONERY. 1954–55.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.(b)
Number of factories Number of persons employed Salaries and wages paid £ Value of power, fuel, etc., used £ Value of materials used £ Value of materials used £ Value of production £ Total value of output £ Value of land and buildings £	94 2,850 1,919,792 230,007 7,250,135 4,365,626 11,845,768 1,344,994 1,481,867	2,099,571 167,375 6,300,986 3,184,659 9,653,020	21 321 136,530 13,955 517,538 224,543 756,036 175,035 114,950	18,804 389,414 231,132 639,350 211,107	321 167,548 17,282 458,521 313,657 789,460 73,589	(a)	238 7,069 4,516,159 447,423 14,916,594 8,319,617 23,683,634 2,964,214
Horse-power of engines ordi- narily in use h.p.	1,481,887		788	1,355		(a) (a)	3,368,314 27,374
Items.		1	9. 1950-51	. 1951-52	2. 1952-53.	1953-54	. 1954-55.
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings Value of plant and machinery Horse-power of engines ordinarily	£'00 £'00 £'00 £'00 £'00 £'00	10 10 10 3,10 10 2,418 10 5,62 10 1,42 10 1,364	5 7,801 1 3,431 7 299 2 10,370 8 6,810 7 17,479 3 2,319 4 2,421	7,361 4,006 371 11,997 7,801 20,169 2,428 2,704	6,873 4,084 436 12,554 7,910 20,900 2,510 2,872	249 6,976 4,382 444 13,857 8,307 22,668 2,650 3,039 28,763	4,516 447 14,917 8,320 23,684

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(a) Not available for publication. Included with Bakeries.

(b) Excludes Tasmania.

27. Jam, Fruit and Vegetable Canning, Pickles, Sauces, Vinegar.—(i) Details of Industry. The following table shows particulars of factories included in this class for each State for 1954-55 and for Australia for a series of years :—

JAM, FRUIT AND	VEGETABLE	CANNING,	PICKLES,	SAUCES,	VINEGAR.
•		1954-55.			

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia
Number of factories Number of persons employed Salaries and wages paid £ Value of power, fuel, etc., used £ Value of production £ Total value of output £ Value of pland and buildings £ Value of pland and machinery £ Horse-power of engines ordi- narily in use h.p.	511 2,622 1,941,134 203,567 7,065,052 3,929,245 11,197,864 1,556,772 1,351,370 8,960	2,663,715	16 1,756 1,273,620 72,666 5,260,266 2,047,506 7,380,438 711,940 521,775 2,774	1,040 607,724 44,694 1,456,883 900,898 2,402,475 464,816 436,726	126 76,216 5,322 219,569 133,641 358,532 134,758 37,975	932,023	184 11,061 7,944,878 698,898 23,708,554 15,311,877 45,719,330 6,192,588 5,496,180 32,661
	j	Austra	1	(<u> </u> 	(
Items.			9. 1950-51 	. 1951–5	2. 1952–53.	. 1953–54	. 1954–55
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings		00 4,800 00 2,334 00 7,231 00 1,382	5 13,124 6,298 7 521 9 21,234 10,685 32,440 2 4,082	13,152 7,793 672 28,286 13,623 42,581 5,031	2 10,845 3 9,391 2 636 5 27,228 3 12,662 40,526 6,025	197 11,101 7,870 660 28,875 14,992 44,527 6,137	184 11,061 7,945 699 29,708 15,312 45,719 6,193

(ii) *Production.* During the 1939-45 War, production of jams increased greatly and an output of 171 million lb. was attained in 1943-44. Production afterwards decreased, but attained a new record of 198.5 million lb. in 1947-48. It dropped to 81.7 million lb. in 1954-55. Preliminary figures for 1955-56 show production as being 82.1 million lb.

721

7.873

3,720

26.718

4,425 29,792

5.095

5 404

496

.661

£'000

Value of plant and machinery

Horse-power of engines ordinarily in use h.p.

The peak output of preserved fruit occurred in 1953-54 with 338.6 million lb. compared with the previous highest level of 256.1 million lb. attained in 1951-52. Preliminary figures for 1955-56 show production as being 300.4 million lb.

There has also been a marked development in the production of canned vegetables. In 1938–39, output totalled 10.3 million lb. but, as a result of the war-time demand by the armed services, production reached the record level of 119.1 million lb. in 1944–45. However, it has since declined and in 1954–55 amounted to 51.1 million lb. Preliminary figures for 1955–56 show production as being 78.1 million lb.

The following table shows the total quantity and value of jams, pickles, sauces and other items manufactured in each State in 1954-55:---

JAMS, PRESERVED FRUIT AND VEGETABLES, PICKLES AND SAUCES : OUTPUT. 1954-55.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Jams '000 lb.	22.377	(a)43,274	10,916	4,534	598	(b)	81,699
Fruit, preserved	46.867	69,111	73,387	15,948	(c)	(c)	319,235
Fruit Pulp(d) cwt.	34,974	29,285	11,670	13,197	6,634	98,309	194,069
Fruit Juices, natural '000 gals.	220	55	2,092	287	(c)	(ċ)	2.874
Vegetables, preserved '000 lb.	22,967	19,401	(ć)	(c)	· (c) ·	(c)	51.116
Tomato Pulp(d) cwt.	44,287	197,197	(c) (c)	17.389	18.831	(c)	278,087
Tomato Paste, Puree, etc.	,		• • •			.,	
'000 pints	(c)	1.509		(c)	(c)		1,982
Pickles	3.055	1.877	125		188		6,765
Sauces	11.307	12,743	1,635	1,942	655	244	28.526
Soup (canned)	4,210	23,255	-,	115	36		27,616

(a) Includes Tasmania. (b) Included with Victoria. (c) Not available for publication. Figures are included in the total for Australia. (d) Including quantities made and used in the works producing them.

28. Bacon-curing.—(i) Details of Industry. The table hereunder shows particulars of factories engaged in bacon-curing in each State for 1954-55 and for Australia for a series of years :—

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories Number of persons employed Salaries and wages paid £ Value of power, fuel, etc., used £ Value of materials used £ Value of production £	32 662 543,155 82,968 4,376,125 1,634,731	66,528	78,251	334,519 54,376 2,011,690	189,145 33,350 1,835,133	6,748 559,675	3,201 2,516,632
Value of land and buildings f Value of land and buildings f Value of plant and machinery f Horse-power of engines ordi- narily in use	6,093,824 550,383 234,130 2,173	5,094,993 326,716 205,658	7,512,990 550,793 356,714	2,643,784 300,039 230,701	2,298,546 101,687 43,251	710,818 126,173 29,699	24,354,955 1,95 5 ,791 1,100,153

BACON-CURING.

1954–55.

			USTRALI	A.				
Items.		_	1938-39.	1950-51.	1951–52.	1952-53.	1953-54.	1954–55.
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings Value of plant and machinery Horse-power of engines ordinarily	 in use	£'000 £'000 £'000 £'000 £'000 £'000 £'000 £'000	76 2,047 480 77 3,768 865 4,710 750 357 9,389	84 2,961 1,577 204 14,076 2,930 17,210 1,270 610 10,472	83 2,838 1,895 251 16,269 3,907 20,427 1,356 724 10,700	85 2,994 2,225 292 18,836 4,026 23,154 1,635 917 11,636	85 2,975 2,270 298 19,448 4,410 24,156 1,737 955 11,685	84 3,201 2,517 322 18,318 5,715 24,355 1,956 1,100 11,791

(ii) Quantity of Production. The number of pigs cured and the quantity of bacon and ham and lard produced in factories in each State for 1954-55 are shown in the following table :---

BACON-CURING FACTORIES: PIGS CURED AND PRODUCTION, 1954-55.

Particulars.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Pigs killed for bacon and ham- For curing on own account For curing on commission Pork and green bacon used	208,710 15,418	159,110 4,763	223,982 3,212	71,387 1,158	} 89,801	30,760	{ 782,590 { 25,711
for— Curing on own account '000 lb. Curing on commission	2,306	3,308	(a)	483	828	(a)	6,979
'000 lb. Sugar used ton Finished bacon and ham	4,834 42		(a) 171	27	(a) 27		4,970 331
made (b) On own account '000 lb. On commission ", Green bacon and ham ", Lard produced cwt.	18,017 5,963 1,357 4,057	15,979 445 1,565 7,536	21,395 419 2,272 20,409	6,867 117 664 4,572	7,414 14 765 3,127	2,095 95 174 771	71,767 7,053 6,797 40,472

(a) Not available for publication; figures are included in the total for Australia. (b) Includes smoked bacon and ham, cooked ham (not smoked) made for retail sale, and canned bacon and ham.

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

29. Butter, Cheese and Condensed and Dried Milk.—(i) Details of Industry. The following table shows particulars of butter, cheese and condensed and dried milk factories n each State for 1954–55 and for Australia for a series of years.

BUTTER, CHEESE AND CONDENSED AND DRIED MILK.

1954-55.

Items.	N.S.V	v .	Victor	ia.	Q'lan	d.	S. Aust	. W. Aus	t. Tas.	Australia.
Number of factories		77		134		89	4	i i	7 21	379
Number of persons employed	2.	322	5,	219	1.	626	78	8 28	6 326	10,567
Salaries and wages paid £			4,563,	116	1,183,	146	587,72	7 212,37	1 258,473	8.679.518
Value of power, fuel, etc., used £	619.	571	1,331,	858	238,	289'	111,83			2,422,969
Value of materials used £	17.693.	901	46,548,	628	23,978.	000	5.474.05	3 3.286.27	5 3,725,761	100706618
Value of production £			8.037.						0 636.372	
Total value of output £									4 4,413,440	
Value of land and buildings £	2.711.	921	4,869,	822	1.493.	223	491,42			10,036,826
Value of plant and machinery £			5,787,							12,553,149
Horse-power of engines ordi-	-,,		-,,		_,,		,			
narily in use h.p.	29.	193	35,	505	22.	164	6,04	1 3,47	7 2,062	98,442
			Aus	(RA	LIA.					<u> </u>
Items.		19	38–39.	19	50-51.	19	51–52.	1952-53.	1953–54.	195455.
Number of factories	·		523		409	[399	384	380	379
Number of persons employed		!	6,851		10.707	1 1	0,473	10.641	10,580	10,567
Salaries and wages paid	£'000		1,570		6.020		7.186	8,098	8,416	8,680
Value of power, fuel, etc., used	£'000		390		1,504		1.837	2,339	2,396	2,423
Value of materials used	£'000		9.162	6	51,581	6	8.038	97,291	94,020	100,706
Value of production	£'000		3,543		0,790		2,535	14,350	15,914	15,394
Total value of output	£'000		3.095		13.875		2,410	113,980	112,330	118,523
Value of land and buildings	£'000		2,880		5,400		6,585	7.571	9,365	10,037
Value of plant and machinery	£'000		3,067		7,014	1	8,569	10,250	12,083	12,553
Horse-power of engines ordinal		1	,			ł		,	.,	,
use	h.p.	4	5,059		74,199	[7	7,439	84,428	94,863	98,442

(ii) Quantity and Value of Production. The next table shows the quantities and values of butter, cheese and condensed milk produced and the quantities of milk used in their production during 1954-55. These details are restricted to factory production and therefore exclude farm output.

BUTTER, CHEESE AND CONDENSED MILK, ETC., FACTORIES : PRODUCTION, 1954-55.

Particulars.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
		TERIALS U	Jsed.				
Whole Milk used in manufacture of-				1	. 1		
Butter '000 gai.	173,857	370,671	211,639	35,506	32,233	38,737	
Cheese "	5,761	44,203	17,451	28,163	(a)	(a)	98,520
Condensed, Dried and other Milk	1 1			1			
Products '000 gal.	11,574	58,406	(a)	(a)	2,581	(a)	76,387
Sugar., ton	(a)	12,576	•••		(a)	(a)	14,458
		RODUCTIC					
Butter ton	38,688	79,418	45,915			8,334	
Cheese (Green Weight) "	2,508	20,290	(b) 7,921 _.	13,101	(a)	(a)	45,178
Condensed Milk (Sweetened						1	
and Unsweetened) "	(a)	35,113	••		(a)	(38,493
Concentrated—							10.071
Whole Milk ,,	(a)	4,593	(a)		(a)	(a)	10.071
Skim Milk "	(a)	(a)	(a)			•••	5,313
Powdered Full Cream Milk-	I	·		ł	i 1	-	
Spray "	$\left\{ (a) \right\}$	10,813	} (a)	(a)	(a)	(a) {	14,230
Roller	$\int w \chi$	290	<u>ر</u> س ر	(4)		- ⁽¹⁾ (1,309
Infants' and Invalids' Foods	1 1				1 I		
(including Malted Milk and				1			
Milk Sugar) "	(a)	(a)	••			(a)	10,920
Powdered Skim Milk-	1 1		_	5	1	_]	
Spray "	6,643	10,200	} (a)	(a)	(a)	(a) {	17,031
Roller	2,815	4,389.	1	I • ·	· · · ·	ີ 🖤 ໂ	7,587
Buttermilk and Whey Powder	622	2,771	1,250	(a)	(a)	1	5,086
Casein	(a)	(a)	(a)			!	6,870
Ice Cream Mix-	1			ĺ	• i		
Powder "	(a)	(a)		(a)	(a)	•• 1	619
Liquid "	(a)	(a) .	••				2,081
Processed Cheese "	(a)	(a) '	(a)		: !		13,742

(a) Not available for publication : figures are included in the total for Australia. (b) Includes 101 tons of cheese valued at £21,916 made in establishments not classified as factories.

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

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

MEAT	AND	FISH	PRESERVING.
		1054 6	

		195	4-55.					·
Items.	N.S.W	. Victor	ia. Q'	and.	S. Aus	t. W. Aust	. Tas.	Australia.
Number of factories Number of persons employed. Salaries and wages paid £ Value of power, fuel, etc., used £ Value of materials used £ Value of production £ Total value of output £ Value of land and buildings £ Value of plant and machinery £ Horse-power of engines ordi- narily in use b.p.		41 902, 22 161, 82 6,268, 02 1,163, 06 7,593, 41, 826, 39 642,	376 7 783 33,2 769 8,0 928 42,0 835 2,5 671 1,4	73,495	29 181,64 21,20 1,182,51 341,80 1,545,58 142,02 167,12	113,87 0 2,847,70 2 1,472,93 0 4,434,51 2 1,593,36 27 726,68	3 61 8 45,207 7 5,472 1 79,389 9 70,143 7 155,004 5 26,997	1,110,185 46,642,225 12,181,810 59,934,220 5,403,394
· · · ·		Aust	RALIA.		<u>'</u>		1	
Items.		1938–39,	1950–5	1. 19	951-52.	195253.	1953-54.	1954-55.
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings Value of land and buildings Value of engines ordinar use	 £'000 £'000 £'000 £'000 £'000 £'000 ily in h.p.	32 4,093 1,180 134 6,351 1,601 1,608 1,966 1,325 13,385	7,9 4,7	28 39 23 97	87 7,386 5,222 33,828 8,751 43,321 3,990 2,623 34,510	98 8,771 6,820 972 47,637 12,126 60,735 4,562 2,786 33,328	106 9,113 7,395 1,015 46,671 11,374 59,060 4,500 2,826 31,810	9,432 8,327 1,110 46,642 12,182 59,934 5,403 3,409

Particulars of the quantities and values of beef, mutton and lamb preserved by cold process exported from Australia over a series of years will be found in Chapter XXIII.— Pastoral Production.

31. Breweries.—(i) Details of Industry. The following table gives particulars of breweries in each State for the year 1954-55 and for Australia for a series of years. It should be noted, however, that the data shown are not strictly comparable throughout, owing to the inability or failure of some breweries to furnish a separate return for each branch of activity. Consequently the figures for some States include details of employment, wages, output, etc., not connected with the brewing of beer, although associated with it. These extraneous activities include cooperage, malt works, aerated waters, etc.

BREWERIES.

1954–55.											
Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.				
Number of factories	9	7	6	3	3	2					
Number of persons employed	1,851	2,701	807	(a)	569	(a)	6,791				
Salaries and wages paid £	1,853,008	2,422,450	630,382	(a)	490,815	(a)	6,272,241				
Value of power, fuel, etc., used £	513,286				165,025	(a)	1.369.484				
Value of materials used £	6.928.482	7.405.133	1.844.828	(a)	2,033,943	(a)	20.809.776				
Value of production £	6.034.782	3,284,012	1.933.493		1,570,967	(a)	14.854,906				
Total value of output(b) £	13,476,550				3,769,935	(a)	37.034.166				
Value of land and buildings £	2,508,491	2,411,041	1.664.994		677,146	(a)	8,306,902				
Value of plant and machinery £	3,403,150			(a)	1,138,558	(a)	10,295,467				
Horse-power of engines ordi-	1	-,,			,,	()					
narily in use h.p.	16,714	10,937	6,390	(a)	3,915	(a)	42,359				

BREWERIES-continued.

AUSTRALIA.

Items.	1938-39.	1950-51.	1951-52.	1952-53.	1953-54.	1954-55.
Number of factories	. 34	29	31	32	31	30
Number of persons employed .	3 609	5,517	5,914	5.904	6,193	6,791
Salaries and wages paid £'000	1,215	3,666	4,564	5.030	5,325	6,272
Value of power, fuel, etc., used £'000		849	1.145	1,388	1,366	1,369
Value of materials used £'00		9,081	11.739	16.452	19.975	20.810
Value of production £'000		8,458	10.298	11,458	13,048	14,855
Total value of output(b) £'000		18,388	23,182	29,298	34,389	37,034
Value of land and buildings £'00		5,162	5,715	6,480	7.256	8,307
Value of plant and machinery £'000		4,489	4,832	5,870	7.681	10,295
Horse-power of engines ordinarily in] .,	.,	,	.,	
use h.p		28,765	30,181	32,754	38,803	42,359

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

(ii) Production, Consumption, Materials Used. The quantity of ale, stout and beer brewed fell from 73.7 million gallons in 1928-29 to 49.8 million gallons in 1931-32, but thereafter increased each year to 109.2 million gallons in 1941-42. Under the Control of Liquor Order which operated between March, 1942 and March, 1946, the production of beer was restricted and consequently output remained static at about 100 million gallons from 1942-43 to 1944-45. Thereafter production increased, and in 1955-56 amounted to over 230 million gallons.

The average annual consumption of ale, stout and beer prior to the economic depression of the early thirties exceeded 11 gallons per head of the population : it dropped to 7.32 gallons in 1931-32, increased to 13.76 gallons in 1941-42 and declined again to about 13 gallons during the period of control. The consumption per head had increased to 24.74 gallons by 1955-56.

The table below shows the quantities of materials used and the quantity and value of ale, stout and beer (excluding waste beer) brewed in each State during 1954-55 :---

DIGUNT	itues .				1100	001101.1,	17040	
articulars	•	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
		·	MATERI	ALS USED).			
 	bus. lb. ton			487,397	(a)	637,606 439,199 2,112	(a) (a) (a)	6,853,223 4,813,361 45,241
A	LE, BEEP	R AND ST	OUT BREV	VED (EXC	LUDING	WASTE BEE	r).	
t availabi	£'000	13,333	10,934	3,917	(a)	17,411 3,536 tal for Aust	(a) (a) tralia.	221,679 36,497 (b) Excludes
	A	articulars. bus. lb. ton ALE, BEEH '000 gals. £'000 t available for pu	varticulars. N.S.W. bus. to. ton 2,500,068 2,074,805 21,045 ALE, BEER AND ST '000 gals. £'000 88,081 13,333 t available for publication ; 13,333	articulars. N.S.W. Victoria. MATERI MATERI bus. 2,500,068 2,194,738 bb. 2,074,805 1,237,201 ton 21,045 13,030 ALE, BEER AND STOUT BREV 000 gals. 88,081 68,093 £'000 13,333 10,934 t available for publication ; figures arc	varticulars. N.S.W. Victoria. Q'land. MATERIALS USED bus. 2,500,068 2,194,738 730,774 bb. 2,074,805 1,237,201 487,397 ton 21,045 13,030 4,311 ALE, BEER AND STOUT BREWED (EXCL. 68,093 22,151 £'000 13,333 10,934 3,917 t available for publication ; figures are included figures are included 3.917	Victoria. Q'land. S. Aust. MATERIALS USED. bus. 2,500,068 2,194,738 730,774 (a) bb. 2,074,805 1,237,201 487,397 (a) ton 21,045 13,030 4,3111 (a) ton 21,045 13,030 4,3111 (a) YOOD gals. 88,081 68,093 22,151 (a) £'000 13,333 10,934 3,917 (a) t available for publication ; figures are included in the to figures are included in the to	Victoria. Q'land. S. Aust. W. Aust. MATERIALS USED. bus. 2,500,068 2,194,738 730,774 (a) 637,606 bus. 2,074,805 1,237,201 487,397 (a) 439,199 ton 21,045 13,030 4,311 (a) 2,112 ALE, BEER AND STOUT BREWED (EXCLUDING WASTE BEE $^{\circ}$ 000 13,333 10,934 3,917 (a) 17,411 $^{\circ}$ 0000 13,333 10,934 3,917 (a) 3,536 t available for publication ; figures are included in the total for Aust	Victoria. Q'land. S. Aust. W. Aust. Tas. MATERIALS USED. . bus. 2,500,068 2,194,738 730,774 (a) 637,606 (a) 1. bus. 2,074,805 1,237,201 487,397 (a) 439,199 (a) . bus. 2,074,805 1,237,201 487,397 (a) 439,199 (a) 21,045 13,030 4,311 (a) 2,112 (a) ALE, BEER AND STOUT BREWED (EXCLUDING WASTE BEER). .''000 gais. 88,081 68,093 22,151 (a) 17,411 (a) . ''000 gais. 88,081 68,093 22,151 (a) 17,411 (a) . ''000 gais. 88,081 60,934 3,917 (a) 3,536 (a) . ''000 gais. 88,081 68,093 22,151 (a) 17,411 (a) . ''000 ji 3,333 10,934 3,917 (a) 3,536 (a) . ''000 ji 3,333 . ''000 ji 3,

BREWERIES : MATERIALS USED AND PRODUCTION, 1954-55.

32. Wineries and Distilleries.—The following table shows particulars of the operations of Wineries and Distilleries for each State during 1954-55 and for Australia for a series of years.

WINERIES AND DISTILLERIES.

1954-55.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories	30	31	5	74	18		158
Number of persons employed	291	322	180	1,176	53	••	2.022
Salaries and wages paid £	236,695	234,092	146,217	861,358	27,633		1,505,995
Value of power, fuel, etc., used £	114.094	76,458	74,837	119,367	2,254		387,010
Value of materials used £	863,898			2,950,631	110,392		4,885,242
Value of production £	607.632	517,514	297,862	1,341,532	80,724		2,845,264
Total value of output £	1.585.624	1.216.652	710,340	4,411,530	193,370		8,117,516
Value of land and buildings £	511.959	340,520	123,465	1.283.249	52,624		2.311.817
Value of plant and machinery £	473,206	377.461	345,943	931.037	41,969		2,169,616
Horse-power of engines ordi-	i			{			1
narily in use h.p.	1,451	2,528	591	6,183	301		11,054

WINERIES AND DISTILLERIES—continued.

AUSTRALIA.

Items.	193839.	1950-51.	1951-52.	1952–53.	1953–54.	1954-55.
Number of factories		153	158	167	164	158
Number of persons employed .	. 1,133	2,158	2,277	2,021	1,981	2,022
Salaries and wages paid £'00	246	1,122	1,416	1,431	1,475	1,506
Value of power, fuel, etc., used £'00	0 58	294	383	333	365	387
Value of materials used £'00	1,421	4,810	7.076	5,464	5,721	4,885
Value of production £'00		2,637	3,118	3,198	3,254	2,846
Total value of output £'00		7,741	10.577	8,995	9,340	8,118
Value of land and buildings £'00		1,795	1,920	2,104	2,284	2,312
Value of plant and machinery £'00		1.556	1.774	1,913	2,108	2.170
Horse-power of engines ordinarily in		1	-,	-,	_,	_,
use h.p		9,189	11,038	10,995	11,275	11,054

33. Tobacco, Cigars and Cigarettes.—Particulars of establishments in which the manufacture of tobacco, cigars or cigarettes was carried on during 1954-55 are shown below for each State and for Australia for a series of years. There are no such factories in Tasmania.

TOBACCO, CIGARS AND CIGARETTES.

1954-55.

	N.S.W.	Victoria.	01111		1	Australia.
Items.	IN.S.W.	victoria.	Q land.	S. Ausi.	w. Aust.	Austrana.
					· ۱	
Number of factories	13	13	6	••	2	34
Number of persons employed	2,332	2,166	(a)		(a)	4,707
Salaries and wages paid £	1,792,713	1,589,254	(a)	1	(a)	3,516,469
Value of power, fuel, etc., used £	108,000	43,477	(a)		(a)	158,300
Value of materials used £	16,482,816	11,803,745	(a)	1	(a)	28,825,086
Value of production £	3,995,028	5,577,057		1	(a)	9,744,759
Total value of output £	20,585,844	17,424,279	(a)		(a)	38,728,145
Value of land and buildings £	342,658	931,915	(a)		(a)	1,504,207
Value of plant and machinery £	746,410	1.233.047	(a)		(a)	2,189,594
Horse-power of engines ordinarily in					1	_,,
use h.p.	5.099	2.862	(a)	1	(a)	8.466

Items.	1938-39.	1950-51.	1951-52.	1952–53.	1953-54.	1954-55.
Number of factories	30	37			36	34
Number of persons employed	5,544	5.044	4,971	4,704	4,757	4.707
Salaries and wages paid £'000	1.096	2,380	2,932	3,204	3.417	3,516
Value of power, fuel, etc., used £'000	34	2 90	126	144	151	158
Value of materials used £'000	7,081	16,599	19,419	22,416	26.835	28.825
Value of production £'000	2,685	4,897	5,206	7,078	8.341	9,745
Total value of output £'000	9,800	21,586	24,751	29,638	35,327	38,728
Value of land and buildings £'000	1,042	1,485	1,598	1,741	1,822	1,504
Value of plant and machinery £'000	943	1,171	1,284	1,458	1,917	2,190
Horse-power of engines ordinarily in		·	•			
use h.p.	4,610	6,056	5,862	6,028	6,919	8,466
Leaf used		1				1
Australian (stemmed) '000 lb.	4.489	3,775	3,664	4,222	4.866	4,482
Imported (stemmed) '000 lb.	16,011	24,558	26,131	28,410	33,076	36,053
Tobacco made '000 lb.	16,305	20,967	21,615	22,334	23,400	21,466
Cigars made '000 lb.	238	179	175	129	143	151
Cigarettes made '000 tb.	6,731	10,679	11,749	13,879	18,303	22,859

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

For many years the production of locally-grown leaf was comparatively small, and manufacturers were dependent on imported leaf for the supply of their raw materials. Increased import duties stimulated local production, and the quantity of Australian leaf used by manufacturers rose from 1.2 million lb. in 1929-30 to over 3 million lb. in 1930-31. During the 1939-45 War, about 4.7 million lb. of Australian-grown leaf was used annually, but in subsequent years the figure fell, and the 1954-55 usage was 4.5 million lb. For further information see Chapter XXII.—Agricultural Production.

Imports of tobacco during 1954-55 comprised—manufactured tobacco, 273,342 lb.; cigars, 45,964 lb.; cigarettes, 2,858,614 lb.; unmanufactured tobacco, 43,577,571 lb.

Australia.

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

SAWMILLS AND PLYWOOD MILLS.

1954-55.

Number of persons employed. 10,965 7,712 8,615 2,218 4,698 2,42 Sataries and wages paid \pounds 7,635,686 5,674,204 5,572,612 1,688,578 3,239,019 1,719,67 Value of power, fuel, etc., used \pounds 593,518 418,710 309,899 82,205 276,970 123,28	
Value of materials used £ [21,936,906 13,355,736 10,999,986 5,885,627 5,316,027 3,578,98	676 25,529,775
Value of production £ [13,921,296 10,387,796 9,560,1071,2813,482 5,301,581,313,440	280 1,804,582
Total value of output £ 36,451,720 24,162,242 20,869,9928 7,813,144 10894578,7036,674	987 61,073,269
Value of land and buildings £ 3,831,078 2,258,151 1,480,151 1,034,423 1,156,090 561,641	409 45,318,671
Value of plant and machinery £ 4,348,976 3,214,401 2,822,9621,009,159 1,553,074 1,940,83	676 108196522
Horse-power of engines ordi-	412 10,321,305
narity in use . h,p. 114,7773 82,888 78,166 19,505 34,363 30,09	836 14,896,408

AUSTRALIA.

Items.	1938–39.	1950-51.	1951-52.	1952-53.	1953–54.	1954-55.
Number of factories Number of factories Number of persons employed Salaries and wages paid You Value of power, fuel, etc., used £'000 Value of production You Value of production You Value of output You Value of pant and machinery £'000	1,639 19,056 3,626 225 8,441 5,762 14,428 2,029 2,777	14,985 1,031 34,868 26,718 62,617 5,763	20,084 1,399 49,131 35,935 86,465 7,108	3,245 34,541 21,367 1,547 46,585 35 663 83,795 8,043 11,906	35,448 23,536 1,639 53,908 39,799 95,346 8,775	3,033 36,631 25,530 1,805 61,073 45,319 108,197 10,321 14,896
Horse-power of engines ordinarily in use h.p.	89,843	275,699	310,387	332,736	336,951	359,786

The sawmill output of native timber, which declined from 740 million super. feet in 1925-26 to the abnormally low figure of 237 million super. feet during the depth of the depression, recovered to 717 million super. feet in 1938-39 and by 1955-56 had risen to 1,454 million super. feet. Further reference is made to the sawmilling industry in Chapter XXV.—Forestry.

35. Cabinet and Furniture Making and Upholstery.—These industries constitute the principal manufactures in Class XI. The following table shows particulars for each State in 1954-55 :—

CABINET AND FURNITURE MAKING AND UPHOLSTERY,	1934-33.
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Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories Number of persons employed. Salaries and wages paid f Value of power, fuel, etc., used f Value of materials used f Value of production f Total value of output f Value of land and buildings f Value of plant and machinery f Horse-power of engines ordi- narily in use h.p.	110,654	4,461 2,993,842 66,729 4,670,779 4,890,408	2,403 1,328,789 30,223 2,273,062 2,059,437 4,362,722 706,121	1,505 1,014,030 26,727 1,700,298 1,507,665 3,234,690 475,516 241,417	1,170 669,971 18,421 1,163,014 1,102,802 2,284,237 540,096 179,774	4,843 304,227 388,604 697,674 165,166	16,538,577 15,887,812 32,683,986 6,204,144 2,195,916

36. Printing Works.—Printing and bookbinding rank high in importance among the industries of Australia, and in 1954–55 afforded employment for 37,246 employees, and paid £29,270,000 in salaries and wages, while the value of output amounted to £97,215,000. The first table below gives particulars of establishments engaged in general printing in each

ltems.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Value of production £ Total value of output £	255,029 11,105,763 12,533,850 23,894,642 3,984,806 4,737,779	8,356 6,470,272 156,658 8,800,605 10,540,571 19,497,834 4,119,696 4,668,720	37,060 1,401,677 2,134,105 3,572,842 740,971	1,587 1,082,440 29,419 1,252,452 1,666,694 2,948,565 529,278 815,378	1,302 844,124 25,769 977,244 1,525,721 2,528,734 532,787 605,139	415,354 7,476 412,442 566,776 986,694 212,530	23,571 17,672,126 511,411 23,950,183 28,967,717 53,429,311 10,120,068 11,769,023

GOVERNMENT AND GENERAL PRINTING WORKS, 1954-55.

NEWSPAPERS AND PERIODICALS, 1954-55.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories	179	114				6	413
Number of persons employed	5,943	3,395				393	13,675
Salaries and wages paid £	4,995,214	3,027,916	1,523,332	1,054,516	629,339	367,821	11,598,138
Value of power, fuel, etc., used £	257,253	101,745	62,680	31,391	34,318	5,324	492,711
Value of materials used £	9,897,422	6,722,750	2,487,744	1,871,774	1,123,747	287,385	22,390,822
Value of production £	9,264,271	5,172,957	2,743,678	1,900,089	1,307,046	514,002	20,902,043
Total value of output £	19,418,946	11,997,452	5,294,102	3,803,254	2,465,111	806,711	43,785,576
Value of land and buildings £	3,843,581	1,278,123	912,858	708,279	317,070	216,813	7,276,724
Value of plant and machinery £	3,742,353	2,910,241	1,208,398	613,604	615,583	123,334	9,213,513
Horse-power of engines ordi-							
narily in use h.p.	15,264	10,316	4,863	3,182	2,265	720	36,610
							1

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. It remained at about this level until 1949–50 but has since increased steadily to a total of 173,000 tons in 1954–55.

The number of factories operating in 1954-55 comprised three in New South Wales nine in Victoria, one in Queensland and South Australia, two in Western Australia and four 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.

Items.	1938–39.	1950-51.	1951–52.	1952-53.	1953-54.	1954-55.
Number of factories	7	14	16	17	18	20
	1,961	6,336	7,237	6,441	7,179	7,611
	467	4,231	5,852	5,338	6,130	7,095
	201	1,181	1,610	1,649	2,048	2,560
	1,096	7,487	14,558	12,637	15,198	17,474
	1,005	9,165	12,623	11,085	15,451	18,294
	2,302	17,833	28,791	25,371	32,697	38,328
	850	4,871	6,820	7,324	8,106	8,255
	1,713	9,814	12,961	15,263	16,810	18,050
	31,548	103,098	112,469	127,558	141,373	157,948

PAPER MAKING, INCLUDING PULP MILLS : AUSTRALIA.

38. Rubber Goods.—The following table shows particulars of this industry for each State during 1954-55 but excludes establishments engaged primarily in the retreading and repairing of tyres.

Items.	N.S.W.	Victoria.	Q'land.	S.Aust.	W.Aust.	Tas.	Australia.
Number of factories	35	51	10	9	2	ì	108
Number of persons employed	6,325	5,505	1,109	675	(a)	(a)	13,645
Salaries and wages paid £	5,958,563			586,047		(a)	1,236,900
Value of power, fuel etc., used £	841,393					(a)	1,759,080
Value of materia's used £	15,853,186	13,442,081	2,538,694	870,448		(a)	32,732,755
Value of production £		9,051,091	1,771,403		(a)	(a)	18,982,613
	23,867,847				(a)	(a)	53,474,448
Value of land and buildings £		2,297,461		113,772	(a)	(a)	5,057,461
Value of plant and machinery £	2,151,249	2,650,321	286,973	179,104	(a)	(a)	5,284,787
Horse-power of engines ordinarily				-			
in use h.p.	44,274	45,196	6,839	2,361	(a)	(a)	98,836
(a) Not available for pul	lication .	figures ar	e included	in the to	tal for A	netrolie	

RUBBER GOODS, 1954-55,

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

39. Electric Light and Power Works.--(i) Details of Industry. The increased demand for electrical energy has been responsible for considerable development in electric light and power works during recent years. For further information on this subject see Chapter VIII.—Electric Power Generation and Distribution. Particulars of the industry for each State during the year 1954-55 and for Australia for a series of years are shown below :-

	ELECTRIC	LIGHT	AND	POWER	WORKS.
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1954-55.

Items.	N.S.W	. Victor	ia. Q'lar	id. S. Au	ist. W. Aus	t. Tas.	Australia,	
	5,3 5,253,00 14,686,50 1,579,00 18,397,40 34,662,99 17,791,09 45,991,30	08 2,790, 04 9,461, 83 456, 04 9,128, 91 19,046, 97 12,410, 07 47,397,	735 1,177 575 5,250 557 1,549 122 3,402 254 10,202 583 6,689 231 21,735	,414 (<i>a</i>) ,706 (<i>a</i>) ,346 (<i>a</i>) ,466 (<i>a</i>) ,324 (<i>a</i>) ,033 (<i>a</i>)	94 923,26 3,352,85 306,43 2,602,97 6,262,25 3,186,51 9,512,91	4 (a) 0 (a) 7 (a) 7 (a) 9 (a) 9 (a) 4 (a)	351 11,927 11,456,947 36,547,670 4,170,627 37,567,647 78,285,944 60,120,947 146,273,460	
capacity kW.	1,635,7	51 944,	028 428	,720 (a)	232,40	$7^{1}(a)$	3,953,838	
Australia.								
Items.		1938–39.	1950–51.	1951–52.	1952–53.	1953-54	. 1954-55.	
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of materials used Value of production Total value of output	£'000 £'000 £'000 £'000 £'000	395 6,508 1,977 3,239 530 8,714 12,483	354 9,815 6,541 21,259 2,712 14,790 38,761	331 10,381 8,178 28,724 3,481 18,065 50,270 21,641	10,891 9,675 32,205 3,296 24,582	351 11,395 10,308 35,083 4,800 30,098 69,981 47,369	11,927 11,457 36,548 4,170 37,568 78,286	

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

441

52

388

27,751

£'000

£'000

Value of land and buildings

Value of plant and machinery

Particulars of the types of engines and generators installed in Electric Light and Power Works and their rated horse-power are given on page 211.

(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. (Million kWh.)

Year.	į	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
1938–39		1,948.5	1,222.5	387.3	256.3	307.0	566.7	4,688.3
1949–50		3,758.1	2,706.1	971.6	593.8	417.5	1,061.6	9,508.7
1950–51		4,251.4	2,875.9	1,115.4	713.0	469.9	1,077.7	10,503.3
1951–52		4,628.1	2,964.1	1,242.1	787.8	529.7	1,145.5	11,297.3
1952–53		4,868.3	3,192.9	1,349.1	822.3	568.7	1,243.5	12,044.8
1953–54	•••	5,450.1	3,692.7	1,510.7	955.2	626.9	1,471.4	13,707.0
1954–55		5,951.2	4,152.3	1,657.6	1,119.2	702.3	1,589.0	15,171.6
1955–56(<i>a</i>)		6,494.9	4,646.8	1,801.2	1,238.7	757.4	1,843.1	16,782.1

(a) Preliminary-subject to revision.

122.773

47 369 60 120

29

66,630

94,169

40. Gas-works.--(i) Details of Industry. Gas-works are in operation in the majority of important towns in Australia. The following table shows particulars of gas-works in each State for the year 1954-55 and for Australia for a series of years :--

GAS-WORKS.

1954–55.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories	39	33		3			97
Number of persons employed	1.558	1.466		(a)	200	(a)	4,103
Salaries and wages paid £	1.560.460	1,403,991	304,664		187,667	(a)	3,882,441
Value of power, fuel, etc., used £	2,012,291			(a)	104,906	(a)	2,290,820
Value of materials used £	6,192,620	5,832,471	948,709	(a)	633,383	(a)	15,186,621
Value of production £	4,757,248	2,751,786	797,482	(a)	258,462	(a)	9,103,508
Total value of output £	12,962,159	8,718,747	1,772,672	(a)	996,751	(a)	26,580,949
Value of land and buildings £	1,354,114	624,968	284,046	(a)	139,951	(a)	2,488,304
Value of plant and machinery £	5,859,924	7.217.835	1,732,534		1,553,038	(a)	19,134,481
Horse-power of engines ordi-						• •	
narily in use . h.p.	18,786	8,838	2,275	(a)	1,245	(a)	33,389

AUSTRALIA.

Items.	1938–39.	1950-51.	1951–52.	1952-53.	1953–54.	1954–55.
Number of factories	107	100	100	99		97
Number of persons employed	2,931	3,871	4,042	4,199	4,141	4,103
Salaries and wages paid £'000	785	2,401	3,207	3,553	3,767	3,882
Value of power, fuel, light, etc., used						
£'000	251	1,179	1,777	2,080	2,244	2,291
Value of materials used £'000	1,872	9,450	13,401	15.576	15,249	15,187
Value of production £'000	2,694	4,426	7,165	8.473	8,121	9,103
Total value of output £'000	4,817	15,055	22,343	26,129	25,614	26,581
Value of land and buildings £'000	1,463	2.071	2,186	2,342	2,416	2,488
Value of plant and machinery £000	7,498	12,386	13,846	15,962	17,235	19,134
Horse-power of engines ordinarily in	}	,		}		,
use h.p.	17,905	28,205	28,427	29.514	30,055	33,389

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

(ii) Coal Used and Production. The following table shows details for 1954-55 :--

GAS-WORKS : COAL USED AND PRODUCTION, 1954-55.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Coal used '000 tons Gas produced million cubic ft.	984 21,360	696 14,290	157	(a) (a)	55 1,448	(a) (a)	2,063 43,465
Gas sold "," ", Coke produced (b) tons	18,476 520,646	12,244	2,614	(a)	1,261	(a)	37,555
	520,010	004,707	100,402	(4)		(4)	1,057,057

(a) Not available for publication; figures are included in the total for Australia. (b) In addition, 2,046,790 tons of metallurgical coke were made in Coke Works in 1954-55.

Since 1938-39, when the output of gas was 21 thousand million cubic feet, production has increased each year and reached nearly 45 thousand million cubic feet in 1955-56.