

CHAPTER XXV. MANUFACTURING INDUSTRY.

NOTE.—Working proprietors are included in all cases in the "Number of Persons Engaged".

Single-year tables in this issue relate to the year 1943-44, and in the immediately preceding issue to the year 1941-42. Corresponding tables for 1942-43 may be found in the *Production Bulletin* 1942-43 No. 37, Part I.—Secondary Industries.

§ 1. Number of Factories.

1. **Number of Factories in each State.**—For statistical purposes, a "factory" was defined by the Conference of Statisticians in 1902 as any factory, workshop or mill where four or more persons are employed or power is used. The statistics which follow should be read in the light of this definition. The following table gives the number of factories in each State for the four years 1940-41 to 1943-44 compared with 1938-39:—

FACTORIES : NUMBER.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
1938-39 ..	9,464	9,250	3,087	2,067	2,129	944	26,941
1940-41 ..	9,919	9,121	2,972	2,230	2,056	1,002	27,300
1941-42 ..	10,166	8,918	2,788	2,167	1,938	994	26,971
1942-43 ..	10,110	8,738	2,641	2,134	1,799	992	26,414
1943-44 ..	10,755	9,317	2,652	2,149	1,807	994	27,674

2. **Number of Factories in Industrial Classes.**—(i) *Australia.* The next table shows the number of factories in Australia during 1938-39 and the last four years, 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 This classification, which was introduced during 1930-31, superseded the grouping which had been in use since 1902. The definition of a factory adopted at the Conference of Statisticians in 1902 is, however, still used. Details in regard to some of the principal industries included in the table will be found in § 9 hereinafter.

FACTORIES : NUMBER IN INDUSTRIAL CLASSES, AUSTRALIA.

Class of Industry.	1938-39.	1940-41.	1941-42.	1942-43.	1943-44.
I. Treatment of Non-metalliferous Mine and Quarry Products	564	576	517	412	417
II. Bricks, Pottery, Glass, etc.	471	440	415	322	289
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease	666	719	740	770	816
IV. Industrial Metals, Machines, Implements and Conveyances	7,255	7,315	7,236	7,306	7,788
V. Precious Metals, Jewellery and Plate	290	304	291	262	258
VI. Textiles and Textile Goods	611	705	761	785	821
VII. Skins and Leather	533	550	540	529	563
VIII. Clothing	4,314	4,370	4,316	4,201	4,462
IX. Food, Drink and Tobacco	5,202	5,314	5,218	5,179	5,457
X. Woodworking and Basketware	2,822	2,784	2,801	2,689	2,799
XI. Furniture, Bedding, etc.	1,149	1,124	1,035	933	917
XII. Paper, Stationery, Printing, Bookbinding, etc.	1,816	1,819	1,744	1,681	1,673
XIII. Rubber	299	283	269	260	275
XIV. Musical Instruments	34	39	45	35	35
XV. Miscellaneous Products	413	476	565	576	624
Total, Classes I. to XV.	26,439	26,818	26,493	25,940	27,194
XVI. Heat, Light and Power	502	482	478	474	480
Grand Total	26,941	27,300	26,971	26,414	27,674

Although not the best index of manufacturing activity, the number of factories affords some indication of the development of secondary industries. From 1931-32 to 1940-41 the number of factories increased each year but in the two succeeding years there were decreases followed, however, in 1943-44 by a substantial increase which brought the number to the new high level of 27,674.

(ii) States, 1943-44. The following table shows the number of factories in each State in 1943-44, classified according to the nature of the industry :—

FACTORIES : NUMBER IN INDUSTRIAL CLASSES, 1943-44.

Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W.Aust.	Tas.	Aust.
I. Treatment of Non-metalliferous Mine and Quarry Products ..	145	125	36	59	32	20	417
II. Bricks, Pottery, Glass, etc. ..	137	71	25	34	15	7	289
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease ..	403	256	39	61	37	20	816
IV. Industrial Metals, Machines, Implements and Conveyances ..	3,127	2,701	654	571	521	214	7,788
V. Precious Metals, Jewellery and Plate ..	86	106	20	22	19	5	258
VI. Textiles and Textile Goods ..	263	453	21	41	24	19	821
VII. Skins and Leather ..	259	194	45	29	27	9	563
VIII. Clothing ..	1,925	1,730	269	279	305	54	4,462
IX. Food, Drink and Tobacco ..	1,835	1,601	742	585	424	270	5,457
X. Woodworking and Basketware ..	1,046	724	418	159	175	277	2,799
XI. Furniture, Bedding, etc. ..	285	325	101	84	74	48	917
XII. Paper, Stationery, Printing, Book-binding, etc. ..	654	624	147	114	106	28	1,673
XIII. Rubber ..	102	83	34	24	19	13	275
XIV. Musical Instruments ..	14	10	3	6	2	..	35
XV. Miscellaneous Products ..	330	203	34	32	21	4	624
Total, Classes I. to XV. ..	10,611	9,206	2,588	2,100	1,701	988	27,194
XVI. Heat, Light and Power ..	144	111	64	49	106	6	480
Grand Total ..	10,755	9,317	2,652	2,149	1,807	994	27,674

§ 2. Classification of Factories according to Number of Persons Engaged.

i. States, 1943-44.—The following table shows, for each State, the number of factories classified according to the number of persons engaged in 1943-44 :—

FACTORIES : CLASSIFICATION ACCORDING TO SIZE OF FACTORY, 1943-44.

No. of Persons Engaged in each Factory.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
NUMBER OF FACTORIES.							
Under 4 ..	3,505	3,217	784	632	840	318	9,296
4 ..	924	745	277	222	99	117	2,384
5 to 10 ..	2,571	2,084	696	558	398	319	6,626
11 to 20 ..	1,472	1,315	380	290	181	106	3,744
21 to 50 ..	1,290	1,066	266	254	183	76	3,135
51 to 100 ..	462	416	113	101	66	32	1,190
Over 100 ..	531	474	136	92	40	26	1,299
Total ..	10,755	9,317	2,652	2,149	1,807	994	27,674

Some marked changes have taken place during the past decade in the distribution of factories according to the number of persons engaged. In 1933-34 of a total of 23,297 factories, 10,681, or 45.85 per cent., had less than five persons engaged whereas in 1943-44, although the number of such factories had increased to 11,680, this number represented only 42.21 per cent. of the total of 27,674 factories. The increase in the number of small factories is due to the inclusion of small repair establishments (boots and shoes, cycles and motors, etc.) which are technically accounted as factories owing to the installation of some power machine.

Factories with more than 100 persons engaged have advanced rapidly from 669 in 1933-34 to a new high level of 1,299 in 1943-44, the persons engaged in these factories increasing from 181,634, or 43.58 per cent. of the total number, to 460,802, or 59.64 per cent., during the same period.

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

FACTORIES : CLASSIFICATION OF PERSONS ENGAGED ACCORDING TO SIZE OF FACTORY, 1943-44.

No. of Persons Employed in Group.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
AVERAGE NUMBER ENGAGED DURING PERIOD WORKED.							
Under 4 ..	7,086	6,178	1,639	2,122	1,581	688	19,294
4 to 10 ..	3,696	2,980	1,108	888	396	468	9,536
11 to 20 ..	17,874	14,487	4,766	3,891	2,632	2,160	45,810
21 to 50 ..	21,312	19,300	5,632	4,191	2,590	1,574	54,599
51 to 100 ..	40,825	34,101	8,192	7,944	5,786	2,412	99,260
Over 100 ..	32,824	28,788	7,748	7,046	4,693	2,202	83,301
Over 100 ..	202,539	156,312	36,022	43,931	10,754	11,244	460,802
Total ..	326,156	262,146	65,107	70,013	28,432	20,748	772,602
Av. per Factory ..	30.33	28.14	24.55	32.58	15.73	20.87	27.92

2. Australia, 1938-39 and 1940-41 to 1943-44.—In the following table factories in Australia during 1938-39 and each of the four years 1940-41 to 1943-44 are classified according to the number of persons engaged.

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

Year.	Establishments Employing on the Average—							
	20 and under.		21 to 100.		101 and upwards.		Total.	
	Es- tablish- ments.	Persons en- gaged.	Es- tablish- ments.	Persons en- gaged.	Es- tablish- ments.	Persons en- gaged.	Es- tablish- ments.	Persons en- gaged.
1938-39—								
Number ..	21,982	129,505	4,013	170,971	946	272,022	26,941	572,498
Average per establishment ..	..	5.89	..	42.60	..	287.55	..	21.25
Percentage on total ..	81.59	22.62	14.90	29.86	3.51	47.52	100.00	100.00
1940-41—								
Number ..	22,022	127,776	4,170	176,714	1,108	352,582	27,300	657,072
Average per establishment ..	..	5.80	..	42.38	..	318.21	..	24.07
Percentage on total ..	80.67	19.44	15.27	26.90	4.06	53.66	100.00	100.00
1941-42—								
Number ..	21,494	126,044	4,245	179,438	1,232	428,127	26,971	733,609
Average per establishment ..	..	5.86	..	42.27	..	347.51	..	27.20
Percentage on total ..	79.69	17.18	15.74	24.46	4.57	58.36	100.00	100.00
1942-43—								
Number ..	21,032	123,039	4,104	173,187	1,278	469,175	26,414	765,401
Average per establishment ..	..	5.85	..	42.20	..	367.12	..	28.98
Percentage on total ..	79.62	16.08	15.54	22.63	4.84	61.29	100.00	100.00
1943-44—								
Number ..	22,050	129,239	4,325	182,561	1,299	460,802	27,674	772,602
Average per establishment ..	..	5.86	..	42.21	..	354.74	..	27.92
Percentage on total ..	79.68	16.73	15.63	23.63	4.69	59.64	100.00	100.00

§ 3. Power Equipment in Factories.

1. **General.**—Statistics of power equipment in factories are now collected on a different basis from that used prior to 1936-37. Previously the statistics represented the "average horse-power used" in all factories, including Central Electric Stations, but in 1936-37 information was obtained in respect of the "rated horse-power" of engines ordinarily in use and of engines in reserve or idle, omitting obsolete engines. In addition, particulars of the power equipment of Central Electric Stations were 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, 1,022 factories are shown as using no power other than hand-power, the distribution of these factories among the various industries being as follows: Lime, Plaster and Asphalt, 23; Chemicals, Drugs and Medicines, 26; Galvanized Ironworking, Tinsmithing, 39; Ready-made Tailoring and Clothing, 288; Dressmaking, 80; Millinery, 44; Bakeries, 147; Cabinet and Furniture Making, 17; All other industries, 358.

2. **Rated Horse-power of Engines in Factories other than Central Electric Stations.**—The following table shows the number of factories using steam, gas, oil, electricity, or water power, those using hand-power, and the rated horse-power of engines ordinarily in use and in reserve or idle during 1943-44:—

FACTORIES(a) : RATED HORSE-POWER OF ENGINES, 1943-44.

State.	Number of Establishments.			Rated Horse-power of Engines.	
	Using Power.	Others.	Total	Ordinarily in use.	In Reserve or Idle (omitting obsolete).
	No.	No.	No.	H.P.	H.P.
New South Wales ..	10,343	310	10,653	903,273	90,939
Victoria ..	8,916	329	9,245	602,562	99,588
Queensland ..	2,492	112	2,604	219,238	26,331
South Australia ..	1,983	121	2,104	182,243	29,002
Western Australia ..	1,583	122	1,705	74,182	7,410
Tasmania ..	962	28	990	84,510	14,315
Australia ..	26,279	1,022	27,301	2,066,008	267,585

(a) Excludes Central Electric Stations.

3. **Rated Horse-power of Engines Ordinarily in Use.**—(i) *According to Type in States.* Particulars of the types of engines ordinarily in use in each State and their rated horse-power are given in the next table:—

FACTORIES(a) : TYPES AND RATED HORSE-POWER OF ENGINES ORDINARILY IN USE, 1943-44.

State.	Rated Horse-power of Engines ordinarily in use.								Total. (b)
	Steam.		Internal Combustion.			Water.	Motors driven by electricity.		
	Reciprocating.	Turbine.	Gas.	Light Oils.	Heavy Oils.		Purchased.	Own Generation. (c)	
	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
N.S.W. ..	110,578	58,687	3,280	5,257	14,500	183	710,788	74,364	903,273
Victoria ..	34,706	39,856	2,708	3,610	10,591	1,236	509,855	34,410	602,562
Queensland ..	78,507	15,018	7,581	2,914	16,143	..	99,075	51,182	219,238
S. Aust. ..	8,452	5,785	4,237	2,376	8,993	10	152,390	16,302	182,243
W. Australia ..	8,506	55	2,496	1,797	5,469	..	55,859	5,108	74,182
Tasmania ..	3,293	2,169	16	3,546	997	192	74,297	11,265	84,510
Australia ..	244,042	121,570	20,318	19,500	56,693	1,621	1,602,264	192,631	2,066,008

(a) Excludes Central Electric Stations.

(b) Excludes particulars in column (c).

(ii) *Australia, 1938-39 and 1940-41 to 1943-44.*—In the following table details of the horse-power of the various types of engines in use are given for Australia for the years 1940-41 to 1943-44 compared with 1938-39.

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

Year.	Rated Horse-power of Engines ordinarily in use.								Total. (b)
	Steam.		Internal Combustion.			Water.	Motors driven by electricity.		
	Reciprocating.	Turbine.	Gas.	Light Oils.	Heavy Oils.		Purchased.	Own Generation. (c)	
	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	
1938-39 ..	268,409	84,149	32,914	17,970	55,800	1,616	1,017,911	179,889	1,478,769
1940-41 ..	248,230	111,057	24,042	18,612	57,204	1,610	1,267,185	205,541	1,727,940
1941-42 ..	244,727	122,014	23,011	19,872	54,971	1,568	1,399,595	203,406	1,865,758
1942-43 ..	246,661	123,967	21,898	18,079	56,669	1,749	1,509,486	190,991	1,978,509
1943-44 ..	244,042	121,570	20,318	19,500	56,693	1,621	1,602,264	192,631	2,066,008

(a) Excludes Central Electric Stations.

(b) Excludes particulars in column (c).

(iii) *In Classes of Industry, 1943-44.* The next table shows the rated horse-power of engines ordinarily in use in the various classes of industry in each State during 1943-44.

FACTORIES(a) : RATED HORSE-POWER OF ENGINES ORDINARILY IN USE, 1943-44.

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
I. Treatment of Non-metallic ferous Mine and Quarry Products ..	38,698	25,312	7,831	6,198	4,684	9,111	91,834
II. Bricks, Pottery, Glass, etc. ..	20,811	11,406	2,722	3,749	1,744	411	40,843
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease ..	38,519	57,010	3,491	32,631	5,915	577	138,143
IV. Industrial Metals, Machines, Implements and Con- veyances ..	482,993	169,536	43,080	70,466	21,051	19,830	806,956
V. Precious Metals, Jewellery and Plate ..	1,537	2,061	128	383	62	14	4,185
VI. Textiles and Textile Goods ..	28,293	58,706	3,123	6,794	1,230	4,067	102,213
VII. Skins and Leather ..	12,579	10,336	1,568	445	1,259	433	26,620
VIII. Clothing ..	11,605	16,104	1,385	1,288	857	238	31,477
IX. Food, Drink and Tobacco ..	123,051	102,217	113,011	32,318	19,579	9,372	399,548
X. Woodworking and Basket- ware ..	56,992	42,351	32,116	13,067	12,322	11,204	168,052
XI. Furniture, Bedding, etc. ..	8,936	5,998	3,118	2,824	1,583	798	23,257
XII. Paper, Stationery, Printing, Bookbinding, etc. ..	34,108	60,678	5,166	7,837	2,929	27,962	138,680
XIII. Rubber ..	25,650	27,874	1,219	620	120	88	55,571
XIV. Musical Instruments ..	774	27	13	15	2	..	831
XV. Miscellaneous Products ..	8,196	6,711	249	529	302	250	16,237
Total, Classes I. to XV. ..	892,742	596,327	218,220	179,164	73,639	84,355	2,044,447
XVI. Gas Works ..	10,531	6,235	1,018	3,079	543	155	21,561
Grand Total ..	903,273	602,562	219,238	182,243	74,182	84,510	2,066,008

(a) Excludes Central Electric Stations.

4. Capacity of Engines and Generators installed in Central Electric Stations.—
(i) *According to Type in Australia.* Particulars of the type and the capacity of engines and generators installed in Central Electric Stations in Australia in 1943-44 are given in the following table:—

CENTRAL ELECTRIC STATIONS : POWER EQUIPMENT, AUSTRALIA, 1943-44.

Particulars.	Capacity of Engines and Generators.						Total.
	Steam.		Internal Combustion.			Water.	
	Reciprocating.	Turbine.	Gas.	Light Oils.	Heavy Oils.		
Engines installed— Total installed Rated H.P.	26,258	2,222,523	21,432	1,384	160,127	242,477	2,674,201
Generators installed— Kilowatt capacity— Total installed .. K.W.	17,245	1,611,120	14,233	753	104,370	182,404	1,930,125
Effective capacity ..	13,948	1,413,606	12,554	515	97,121	157,353	1,695,097
Maximum load ..	9,506	1,283,736	9,630	449	66,876	173,562	1,543,759
Horse-power equivalent— Total installed H.P.	23,118	2,159,787	18,952	1,009	139,912	244,522	2,587,300
Effective capacity ..	18,698	1,895,010	16,741	690	130,195	210,940	2,272,274
Maximum load ..	12,743	1,720,912	12,851	601	89,651	232,669	2,069,427

(ii) *States.* Details of the capacity of engines and generators installed in Central Electric Stations in each State are given in the next table for 1943-44.

CENTRAL ELECTRIC STATIONS : POWER EQUIPMENT, 1943-44.

Particulars.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Engines installed Rated H.P.	1,198,536	670,733	288,115	200,470	153,370	162,977	2,674,201
Generators installed— Kilowatt capacity— Total installed .. K.W.	891,280	464,646	196,727	142,813	109,479	125,180	1,930,125
Effective capacity ..	782,178	432,312	141,178	142,226	96,453	100,750	1,695,097
Maximum load ..	689,866	433,259	115,453	121,548	65,643	117,990	1,543,759
Horse-power equivalent— Total installed H.P.	1,194,805	622,881	263,594	191,448	146,762	167,810	2,587,300
Effective capacity ..	1,048,549	579,536	189,167	190,662	129,300	135,060	2,272,274
Maximum load ..	924,801	580,805	154,711	162,941	87,998	158,171	2,069,427

§ 4. Employment in Factories.

1. Number Engaged.—(i) *General.* All persons engaged in the manufacturing activities of a factory, including proprietors who work in their own business and "outworkers" (see par. 4 (ii) hereinafter) are counted as factory employees, while all those are excluded who are engaged in selling and distributing, such as salesmen, travellers, collectors, carters engaged solely on outward delivery of manufactured goods and retailing storemen. Employment has been classified as follows:—(i) Working proprietors; (ii) managers and overseers; (iii) accountants and clerks; (iv) engine-drivers and firemen; (v) skilled and unskilled workers in the factories, mills, or workshops; (vi) carters and messengers; and (vii) others.

Prior to the year 1928-29 employment in factories was computed by dividing the sum of the number engaged each week by the number of weeks worked. The figures, therefore, represented the average number engaged over the period worked, which,

for many factories, was less than a full year. Commencing with the year 1928-29 the figure represents the equivalent average number engaged over a full year of fifty-two weeks. The classification of factories according to the number of persons engaged (see § 2 *ante*), however, is still based on the old method, but for all other purposes the average number engaged over the full year is used.

(ii) *Australia, 1934-35 to 1943-44.* Particulars of the number employed, the increase in employment and the rate per cent. of such increase are given for years 1934-35 to 1943-44 in the following table:—

FACTORIES : EMPLOYMENT, AUSTRALIA.

Year.	Males.			Females.			Persons.		
	Number Em- ployed.	Increase on Previous Year.		Number Em- ployed.	Increase on Previous Year.		Number Em- ployed.	Increase on Previous Year.	
		Number.	Per cent.		Number.	Per cent.		Number.	Per cent.
	No.	No.	%	No.	No.	%	No.	No.	%
1934-35 ..	322,465	33,216	11.48	127,133	10,473	8.98	449,598	43,689	10.76
1935-36 ..	356,554	34,089	10.57	136,217	9,084	7.15	492,771	43,173	9.60
1936-37 ..	381,412	24,858	6.97	142,536	6,319	4.64	523,948	31,177	6.33
1937-38 ..	408,602	27,190	7.13	150,558	8,022	5.63	559,160	35,212	6.72
1938-39 ..	412,591	3,989	0.98	152,515	1,957	1.30	565,106	5,946	1.06
1939-40 ..	426,934	14,343	3.48	160,729	8,214	5.39	587,663	22,557	3.99
1940-41 ..	473,053	46,124	10.80	177,015	16,286	10.13	650,073	62,410	10.62
1941-42 ..	524,383	51,325	10.85	200,959	23,944	13.53	725,342	75,269	11.58
1942-43 ..	535,570	11,187	2.13	223,475	22,516	11.20	759,045	33,703	4.65
1943-44 ..	539,141	3,571	0.67	227,365	3,890	1.74	766,506	7,461	0.98

(iii) *States, 1938-39 and 1940-41 to 1943-44.* The following table shows, for each of the years 1938-39 and 1940-41 to 1943-44, (a) the average number of persons (including both sexes of all ages) engaged in manufacturing industries in each State; (b) for each State, the percentage of the total number engaged in Australia; and (c) the number engaged per ten thousand of the mean population in each State and Australia.

FACTORIES : EMPLOYMENT.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
AVERAGE NUMBER ENGAGED DURING FULL YEAR (52 WEEKS).							
1938-39 ..	228,781	201,831	54,110	43,371	23,211	13,802	565,106
1940-41 ..	265,751	237,636	57,269	50,844	22,734	15,839	650,073
1941-42 ..	298,245	258,400	61,909	65,252	23,980	17,556	725,342
1942-43 ..	315,524	262,358	64,292	72,748	25,813	18,310	759,045
1943-44 ..	323,032	261,331	64,682	69,569	28,101	19,791	766,506

PERCENTAGE ON AUSTRALIAN TOTAL.

	%	%	%	%	%	%	%
1938-39 ..	40.48	35.72	9.58	7.67	4.11	2.44	100.00
1940-41 ..	40.88	36.56	8.81	7.82	3.50	2.43	100.00
1941-42 ..	41.11	35.62	8.54	9.00	3.31	2.42	100.00
1942-43 ..	41.58	34.56	8.47	9.58	3.40	2.41	100.00
1943-44 ..	42.14	34.09	8.44	9.08	3.67	2.58	100.00

FACTORIES: EMPLOYMENT—*continued.*

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
PER 10,000 OF POPULATION.							
1938-39 ..	837	1,076	537	730	502	583	816
1940-41 ..	953	1,237	556	850	485	660	920
1941-42 ..	1,060	1,322	598	1,078	512	733	1,016
1942-43 ..	1,115	1,331	616	1,187	538	758	1,054
1943-44 ..	1,136	1,314	611	1,125	582	811	1,055

2. Rates of Increase, 1938-39 and 1940-41 to 1943-44.—The percentage increase on the average number of persons engaged in the preceding year is shown below for each State for 1938-39 and 1940-41 to 1943-44.

FACTORIES: ANNUAL PERCENTAGE INCREASE OF PERSONS ENGAGED.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
	%	%	%	%	%	%	%
1938-39 ..	1.74	0.02	3.82	-1.62	0.34	4.80	1.06
1940-41 ..	12.14	11.85	3.11	12.86	-1.01	7.97	10.62
1941-42 ..	12.23	8.74	8.10	28.35	5.48	10.84	11.58
1942-43 ..	5.79	1.53	3.85	11.49	7.64	4.29	4.65
1943-44 ..	2.38	-0.39	0.61	-4.37	8.86	8.09	0.98

NOTE.—Minus sign (—) indicates decrease.

3. Persons Engaged in Classes of Industry.—(i) *Australia.* The following table gives the average number of persons engaged in factories under each industrial group in Australia for the years 1938-39 and 1940-41 to 1943-44.

FACTORIES: PERSONS ENGAGED IN INDUSTRIAL CLASSES, AUSTRALIA.

Class of Industry.	1938-39.	1940-41.	1941-42.	1942-43.	1943-44.
I. Treatment of Non-metalliferous Mine and Quarry Products ..	10,343	10,554	9,970	8,001	7,701
II. Bricks, Pottery, Glass, etc. ..	15,709	16,159	15,126	10,428	9,616
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease ..	19,816	32,528	47,019	54,101	42,551
IV. Industrial Metals, Machines, Implements and Conveyances ..	177,677	221,075	276,113	328,142	341,030
V. Precious Metals, Jewellery and Plate ..	3,726	4,046	3,708	2,358	2,373
VI. Textiles and Textile Goods ..	46,082	57,319	60,482	58,661	58,539
VII. Skins and Leather ..	10,767	12,737	12,629	12,056	12,708
VIII. Clothing ..	86,092	89,042	88,684	80,573	80,692
IX. Food, Drink and Tobacco ..	83,846	91,500	94,928	96,448	101,630
X. Woodworking and Basketware ..	30,739	33,851	35,129	33,658	34,827
XI. Furniture, Bedding, etc. ..	15,287	14,827	13,331	10,216	9,563
XII. Paper, Stationery, Printing, Book-binding, etc. ..	39,913	40,090	38,710	35,645	35,193
XIII. Rubber ..	7,502	8,431	9,022	7,178	7,961
XIV. Musical Instruments ..	451	524	532	392	353
XV. Miscellaneous Products ..	7,727	9,212	11,443	12,320	12,699
Total, Classes I. to XV. ..	555,677	641,895	716,826	750,177	757,436
XVI. Heat, Light and Power ..	9,429	8,178	8,516	8,868	9,070
Grand Total ..	565,106	650,073	725,342	759,045	766,506

From 1938-39 until 1941-42 employment increased in all industries, except "Furniture, Bedding, etc.", "Heat, Light and Power". Following the outbreak of war in the Pacific in 1941, the transfer of man-power to the more essential industries became

apparent, and industries not directly concerned with Australia's war effort showed a marked decline. The industries which declined were those connected with Class I., Mine and Quarry Products; Class II., Bricks, Pottery, Glass, etc.; Class V., Precious Metals; Class VIII., Clothing; Class XI., Furniture; and Class XII., Paper, etc., while industries where the war-time expansion in employment occurred were those connected with Class III., Chemicals, etc.; Class IV., Metals, etc.; Class VI., Textiles; Class VII., Skins and Leather; and Class IX., Food.

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

FACTORIES : PERSONS ENGAGED IN INDUSTRIAL CLASSES, 1943-44.

Class of Industry.	N.S.W.	Vic.	Q'land.	S.A.	W.A.	Tas.	Aust.
I. Treatment of Non-metalliferous Mine and Quarry Products ..	3,547	1,897	755	744	398	360	7,701
II. Bricks, Pottery, Glass, etc. ..	5,669	2,508	430	656	292	61	9,616
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease ..	11,788	18,385	867	10,403	980	128	42,551
IV. Industrial Metals, Machines, Implements and Conveyances ..	163,023	102,607	23,303	33,428	11,810	6,859	341,030
V. Precious Metals, Jewellery and Plate ..	857	1,164	120	155	65	12	2,373
VI. Textiles and Textile Goods ..	20,383	29,866	1,504	3,180	873	2,733	58,539
VII. Skins and Leather ..	6,016	4,458	1,035	442	549	208	12,708
VIII. Clothing ..	32,188	33,451	6,176	5,067	3,052	758	80,692
IX. Food, Drink and Tobacco ..	33,662	32,644	17,945	8,557	4,625	4,197	101,630
X. Woodworking and Basketware ..	12,815	8,847	6,580	2,105	2,508	1,972	34,827
XI. Furniture, Bedding, etc. ..	3,920	2,542	1,258	949	556	338	9,563
XII. Paper Stationery, Printing, Bookbinding, etc. ..	15,095	12,130	2,832	2,218	1,265	1,653	35,193
XIII. Rubber ..	4,005	3,132	448	193	101	82	7,961
XIV. Musical Instruments ..	262	43	17	23	8	..	353
XV. Miscellaneous Products ..	6,096	5,110	479	438	302	274	12,699
Total, Classes I. to XV.	319,326	258,784	63,749	68,558	27,384	19,635	757,436
XVI. Heat, Light and Power ..	3,706	2,547	933	1,011	717	156	9,070
Grand Total ..	323,032	261,331	64,682	69,569	28,101	19,791	766,506

4. **Persons Engaged According to Nature of Employment.**—(i) *General.* In the following table the average number of persons engaged in the States during 1943-44 are classified according to the nature of their employment:—

PERSONS ENGAGED : NATURE OF EMPLOYMENT, 1943-44.

State.	Average Number of Persons Engaged.						Total.
	Working Proprietors.	Managers and Overseers.	Accountants and Clerks.	Engine-drivers and Firemen.	Workers, Skilled & Unskilled. (a)	Carters, Messengers and Others.	
New South Wales ..	8,635	11,667	24,970	7,752	266,765	3,243	323,032
Victoria ..	7,906	9,776	18,880	2,011	220,216	2,542	261,331
Queensland ..	1,992	2,393	4,284	1,795	53,367	851	64,682
South Australia ..	1,527	2,483	5,763	580	58,660	556	69,569
Western Australia ..	974	1,070	1,681	548	23,513	315	28,101
Tasmania ..	616	884	1,218	330	16,555	188	19,791
Australia ..	21,650	28,273	56,796	13,016	639,076	7,695	766,506

(a) Includes outworkers.



This map was re-drawn from that published in the Report of the Fifth Interstate Conference on Artesian Water, Sydney, 1928.



(ii) *Outworkers.* The term "outworker" or "homeworker" has acquired a special meaning in connexion with manufacturing industries, and technically embraces only those to whom work is given out by factory owners to be done in the employees' own homes. Individuals working for themselves are not included. The following table gives particulars of the average number of outworkers employed by factories in each State during the years 1938-39 and 1940-41 to 1943-44.

FACTORIES : OUTWORKERS.(a)

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
1938-39	201	120	6	11	7	11	356
1940-41	164	173	9	6	4	7	363
1941-42	469	191	10	17	4	11	702
1942-43	534	196	5	17	12	8	772
1943-44	531	289	4	19	12	7	862

(a) In all tables relating to number of hands employed in factories, outworkers are included.

The Factories Acts in each State contain provisions regulating the employment of outworkers. Records of outwork, specifying the names and remuneration of workers, and stating the places where the work is done, must be kept by factory proprietors.

5: *Monthly Employment, 1938-39 and 1941-42 to 1944-45.*—The number of persons employed in factories (excluding Working Proprietors) on the pay-day nearest to the 15th of each month is shown in the following table for the years 1938-39, and 1941-42 to 1944-45.

FACTORIES : MONTHLY EMPLOYMENT, AUSTRALIA.

Month.	1938-39.	1941-42.	1942-43.	1943-44.	1944-45.
MALES.					
July	387,693	490,902	513,162	518,181	518,841
August	389,979	494,850	514,096	519,135	518,672
September	391,576	499,050	515,149	519,747	517,013
October	393,977	504,981	516,056	520,687	516,152
November	395,192	509,788	516,918	519,233	515,695
December	394,438	510,778	516,834	520,147	515,384
January	385,742	503,012	516,844	519,367	512,269
February	392,056	505,247	518,768	521,480	513,880
March	395,146	508,998	521,302	520,558	515,455
April	391,005	509,635	521,975	518,197	514,414
May	393,609	509,506	520,966	518,178	513,232
June	390,973	508,994	520,636	518,176	514,501
Mean	391,780	504,645	517,726	519,424	515,459
FEMALES.					
July	147,282	187,842	212,392	227,382	217,633
August	149,294	190,269	213,100	228,134	216,491
September	151,159	187,555	214,123	229,206	215,491
October	152,473	195,690	216,418	229,104	213,686
November	152,806	198,168	218,026	228,373	212,604
December	151,165	198,704	220,328	226,958	211,507
January	141,853	195,851	220,838	223,991	207,464
February	151,883	201,727	223,988	223,900	210,401
March	154,854	204,725	227,681	225,144	212,206
April	152,614	204,892	229,748	222,457	209,147
May	150,693	205,860	228,203	218,648	207,556
June	148,601	206,035	228,600	217,430	206,335
Mean	150,390	198,110	221,120	225,060	211,710

FACTORIES: MONTHLY EMPLOYMENT, AUSTRALIA—continued.

Month.	1938-39.	1941-42.	1942-43.	1943-44.	1944-45
PERSONS.					
July	534,975	678,744	725,554	745,563	736,474
August	539,273	685,119	727,196	747,269	735,163
September	542,735	686,605	729,272	748,953	732,504
October	546,450	700,671	732,474	749,791	729,838
November	547,998	707,956	734,944	747,606	728,299
December	545,603	709,482	737,162	747,105	726,891
January	527,595	698,863	737,582	743,358	719,733
February	543,939	706,974	742,756	745,380	724,281
March	550,000	713,723	748,983	745,702	727,661
April	543,619	714,527	751,723	749,654	723,561
May	544,302	715,366	749,169	736,826	720,788
June	539,574	715,029	749,236	735,606	720,836
Mean	542,170	702,755	738,846	744,484	727,169

6. **Distribution of Employees According to Age.**—(i) *States.* The extension of statistics of employment in factories, decided upon at the Conference of Australian Statisticians held in March, 1937, now permits of a distribution of employees (excluding working proprietors) into three age-groups. The particulars are collected in June of each year and details showing the number employed in each age-group in June, 1944, are given below:—

FACTORIES: DISTRIBUTION OF EMPLOYEES ACCORDING TO AGE, JUNE, 1944.
(Excluding Working Proprietors.)

State.	Under 16 Years.		16 and under 21 Years.		Adults.		Total.	
	No.	%	No.	%	No.	%	No.	%
New South Wales	6,895	2.23	55,140	17.81	247,582	79.96	309,617	100
Victoria	8,762	3.52	39,200	15.73	201,426	80.75	249,388	100
Queensland	2,749	4.31	12,623	19.79	48,413	75.90	63,785	100
South Australia	2,252	3.42	9,633	14.64	53,914	81.94	65,799	100
Western Australia	1,109	4.03	5,875	21.33	20,565	74.64	27,549	100
Tasmania	792	4.07	3,363	17.27	15,313	78.66	19,468	100
Australia	22,559	3.07	125,834	17.11	587,213	79.82	735,606	100

(ii) *Australia.* The following table shows the same age distribution in sexes for Australia in June, 1939 and 1941 to 1944:—

FACTORIES: DISTRIBUTION OF EMPLOYEES ACCORDING TO AGE, AUSTRALIA.
(Excluding Working Proprietors.)

In June —	Under 16 Years.		16 and under 21 Years.		Adults.		Total.	
	No.	%	No.	%	No.	%	No.	%
MALES.								
1939	16,109	4.12	76,418	19.55	298,446	76.33	390,973	100
1941	16,871	3.50	86,296	17.88	379,355	78.62	482,522	100
1942	16,135	3.17	68,507	13.46	424,352	83.37	508,994	100
1943	14,538	2.79	64,036	12.30	442,062	84.91	520,636	100
1944	13,114	2.53	64,990	12.54	440,072	84.93	518,176	100

FACTORIES: DISTRIBUTION OF EMPLOYEES ACCORDING TO AGE,
AUSTRALIA—*continued.*
(Excluding Working Proprietors.)

In June.	Under 16 Years.		16 and under 21 Years.		Adults.		Total.	
	No.	%	No.	%	No.	%	No.	%
FEMALES.								
1939	15,497	10.43	56,273	37.87	76,831	51.70	148,601	100
1941	15,120	8.25	65,724	35.87	102,386	55.88	183,230	100
1942	12,932	5.84	63,558	30.85	130,444	63.31	206,935	100
1943	9,897	4.33	63,646	27.84	155,057	67.83	228,600	100
1944	9,445	4.34	60,844	27.98	147,141	67.68	217,430	100
PERSONS.								
1939	31,606	5.86	132,691	24.59	375,277	69.55	539,574	100
1941	31,991	4.81	152,020	22.83	481,741	72.36	665,752	100
1942	28,168	3.94	132,065	18.47	554,796	77.59	715,029	100
1943	24,435	3.26	127,682	17.04	597,119	79.70	749,236	100
1944	22,559	3.07	125,834	17.11	587,213	79.82	735,606	100

§ 5. Sex Distribution in Factories.

1. Distribution According to Sex of Persons Engaged.—(i) *General.* In New South Wales the ratio of the number of females engaged in factories to the number of males during 1886 was about one to seven; in 1891 one to six; in 1903 it became about one to four; and in 1943-44 was more than two to five. In Victoria the ratio of females to males during the year 1886 was about one to five. Five years later (1891) it was somewhat less, but in 1896 had increased to about one to three, and in 1943-44 was about one to two. In the remaining States the ratio was roughly one female engaged to every four males, but the increase of female workers in war-time industry increased this ratio to just below one to three in all States except Queensland. For Australia as a whole the ratio decreased slightly and in 1943-44 was about two females to five males.

(ii) *Average Number of Males and Females Engaged, 1938-39 and 1940-41 to 1943-44.* The following table shows the average number of males and females engaged in factories in each State for 1938-39 and the four years 1940-41 to 1943-44:—

FACTORIES: MALES AND FEMALES ENGAGED.

State.	1938-39.	1940-41.	1941-42.	1942-43.	1943-44.
MALES.					
New South Wales	167,172	194,194	216,856	223,669	226,824
Victoria	136,218	161,880	175,691	175,341	175,078
Queensland	43,941	46,567	49,695	50,325	50,822
South Australia	35,406	40,072	49,918	52,793	50,660
Western Australia	18,704	18,004	18,834	19,501	21,060
Tasmania	11,150	12,341	13,389	13,941	14,697
Australia	412,591	473,058	524,383	535,570	539,141
FEMALES.					
New South Wales	61,609	71,557	81,389	91,855	96,208
Victoria	65,613	75,756	82,709	87,017	86,253
Queensland	10,169	10,702	12,214	13,967	13,860
South Australia	7,963	10,772	15,334	19,955	18,909
Western Australia	4,507	4,730	5,140	6,312	7,041
Tasmania	2,652	3,498	4,167	4,369	5,094
Australia	152,515	177,015	200,959	223,475	227,365

2. Rate of Variation for each Sex.—The percentages of increase or decrease on the average numbers of males and females engaged in the preceding year are shown below for the years indicated :—

ANNUAL PERCENTAGE INCREASES OF MALES AND FEMALES ENGAGED.

State.	1938-39.	1940-41.	1941-42.	1942-43.	1943-44.
MALES.					
	%	%	%	%	%
New South Wales ..	1.69	12.73	11.67	3.14	1.42
Victoria ..	0.04	13.01	8.53	0.20	0.15
Queensland ..	3.79	3.42	6.72	1.27	1.11
South Australia ..	- 2.39	10.31	24.57	5.76	- 4.04
Western Australia ..	- 0.30	- 1.78	4.61	3.54	8.00
Tasmania ..	4.40	4.99	8.49	4.12	5.42
Total ..	0.98	10.80	10.85	2.16	0.67
FEMALES.					
New South Wales ..	1.88	10.57	13.74	12.86	4.74
Victoria ..	- 0.03	9.44	9.18	5.21	0.88
Queensland ..	3.96	1.78	14.13	14.35	0.77
South Australia ..	1.98	23.48	42.35	30.14	- 5.24
Western Australia ..	3.06	2.03	8.79	22.66	11.55
Tasmania ..	6.51	19.96	19.13	4.85	16.59
Total ..	1.30	10.13	13.53	11.20	1.74

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

3. Masculinity of Persons Engaged in Factories.—The extent to which females are engaged in the factories of Australia may perhaps be more clearly shown by giving the masculinity of persons engaged in each State. The following table shows particulars for the years 1938-39 and 1940-41 to 1943-44 :—

FACTORIES : MASCULINITY(a) OF PERSONS ENGAGED.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
1938-39 ..	271	208	432	445	415	420	271
1940-41 ..	271	214	435	372	381	353	267
1941-42 ..	266	212	407	326	366	321	261
1942-43 ..	244	202	360	265	309	319	240
1943-44 ..	236	203	367	268	299	289	237

(a) Number of males per 100 females.

For a number of years prior to 1926-27 there were on the average 300 males engaged in factories for every 100 females, but in that year the proportion of males began to fall with the increasing activity in the clothing and textile industries, in which the number of females to males is relatively high. As these trades were not so seriously affected by the depression as the heavier industries, the proportion of males continued to fall, until in 1932-33 there were only 239 males engaged to every 100 females. With the recovery of employment in the heavier industries subsequent to that year, the proportion of males per 100 females had increased to 271 in 1937-38 and 1938-39 but fell again to 237 in 1943-44.

The decrease in masculinity, since 1938-39 was the result of the enlistment of men in the armed services and the expansion of industry caused by the war. In many industries the younger men were released for service in the defence forces and large numbers of women were absorbed as an adjustment to the industrial effort of Australia.

4. **Employment of Females in Particular Industries.**—(i) *General.* The greater number of females in manufacturing industries are engaged in four classes, namely:—IV., Industrial Metals, Machines, etc.; VI., Textiles; VIII., Clothing; and IX., Food, Drink and Tobacco. In 1943-44 these industries accounted for 80.08 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 162 females to every 100 males and in Class VIII., Clothing, with 289 females per 100 males. The following tables show the average number of males and females engaged in each of these classes in 1943-44:—

MALES AND FEMALES ENGAGED IN PARTICULAR INDUSTRIES, 1943-44.

Class.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
MALES.							
IV. Industrial Metals, etc. ..	134,749	86,065	20,531	28,416	9,961	6,143	285,865
VI. Textiles and Textile Goods ..	6,911	11,751	569	1,675	403	1,039	22,348
VIII. Clothing ..	8,278	9,108	1,275	1,206	647	230	20,744
IX. Food, Drink and Tobacco ..	21,467	22,281	15,022	6,109	3,296	2,695	70,870
All Other Classes ..	55,419	45,873	13,425	13,254	6,753	4,590	139,314
Total ..	226,824	175,078	50,822	50,660	21,060	14,697	539,141
FEMALES							
IV. Industrial Metals, etc. ..	28,274	16,542	2,772	5,012	1,849	716	55,165
VI. Textiles and Textile Goods ..	13,472	18,115	935	1,505	470	1,694	36,191
VIII. Clothing ..	23,910	24,343	4,901	3,861	2,405	528	59,948
IX. Food, Drink and Tobacco ..	12,195	10,363	2,923	2,448	1,329	1,502	30,760
All Other Classes ..	18,357	16,890	2,329	6,083	988	654	45,301
Total ..	96,208	86,253	13,860	18,909	7,041	5,094	227,365

(ii) *Females Engaged in Clothing Trade.*—The employment of females in the several industries of Class VIII., Clothing, which is the most important group, and the relation of their number to that of the males so engaged are shown in the following table:—

FEMALES ENGAGED IN EACH INDUSTRY IN CLASS VIII., 1943-44.

Industry.	New South Wales.			Victoria.			Other States.		
	Males.	Females.	Femini- nity. (a)	Males.	Females.	Femini- nity. (a)	Males.	Females.	Femini- nity. (a)
Tailoring and Ready-made Clothing ..	1,802	10,819	600	1,531	6,050	395	933	4,737	508
Waterproof and Oil-skin Clothing ..	11	60	545	98	290	296	..	..	..
Dressmaking ..	28	1,423	5,082	548	7,110	1,297	65	2,370	3,646
Millinery ..	98	898	916	72	651	904	38	521	1,371
Shirts, Collars and Underclothing ..	307	4,035	1,314	259	3,008	1,161	141	1,966	1,394
Stays and Corsets ..	65	613	943	69	527	764	9	133	1,418
Handkerchiefs, Ties and Scarves ..	73	553	757	25	209	836	..	..	..
Hats and Caps ..	562	730	130	554	533	96	26	158	607
Gloves ..	37	209	565	65	409	629	19	145	763
Boots and Shoes ..	2,876	2,903	101	4,337	4,086	94	1,308	988	76
Boot Repairing (including Bespoke Work) ..	1,266	112	9	641	32	5	511	49	10
Boot Accessories ..	243	139	57	121	140	118	4	..	..
Umbrellas and Walking Sticks ..	18	36	200	8	15	188	4	12	300
Dyeworks and Cleaning (including Renovating and Repairing) ..	850	1,167	137	708	863	122	299	614	205
Other ..	42	213	507	72	420	583	1	2	200
Total ..	8,278	23,910	289	9,108	24,343	267	3,358	11,695	348

(a) Number of females per 100 males.

§ 6. 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 Engaged, 1939 and 1941 to 1944.**—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 22,559 in June, 1944, which is most marked, particularly in New South Wales, was probably caused by several factors including (i) the raising of the school leaving age in New South Wales (ii) fewer children available for employment owing to the decline in the birth rate which occurred about 1929 and (iii) the high level of employment which enabled parents to keep their children at school beyond the statutory leaving age.

The following table shows the number of children of each sex employed in manufacturing industries in June of the years 1939 and 1941 to 1944.

FACTORIES : CHILDREN ENGAGED, JUNE.

State.	1939.	1941.	1942.	1943.	1944.
MALES.					
New South Wales	5,759	5,901	5,125	4,221	3,881
Victoria	6,167	5,775	5,458	5,251	5,031
Queensland	1,790	2,113	2,526	2,126	1,732
South Australia	1,296	1,732	1,593	1,506	1,232
Western Australia	795	822	880	878	753
Tasmania	392	528	553	556	485
Australia	16,109	16,871	16,135	14,538	13,114
FEMALES.					
New South Wales	7,084	6,799	4,668	3,158	3,014
Victoria	5,005	4,664	3,754	3,477	3,731
Queensland	1,334	1,325	1,503	1,308	1,017
South Australia	1,053	1,363	1,280	1,206	1,020
Western Australia	521	553	456	404	356
Tasmania	500	416	372	344	307
Australia	15,497	15,120	12,033	9,897	9,445
TOTAL.					
New South Wales	12,843	12,700	9,793	7,379	6,895
Victoria	11,172	10,439	9,212	8,728	8,762
Queensland	3,124	3,438	4,029	3,434	2,749
South Australia	2,349	3,095	2,873	2,712	2,252
Western Australia	1,226	1,375	1,336	1,282	1,109
Tasmania	892	944	925	900	792
Australia	31,606	31,991	28,168	24,435	22,559

3. **Percentage of Children on Total Number of Persons Engaged.**—The following table shows the percentage of children on the total number of persons engaged in the various States for June of each of the five years 1939 and 1941 to 1944. In 1944 the percentage was highest in Queensland and lowest in New South Wales.

PERCENTAGE OF CHILDREN ON TOTAL NUMBER OF PERSONS ENGAGED.
(Excluding Working Proprietors.)

State.	June—				
	1939.	1941.	1942.	1943.	1944.
	%	%	%	%	%
New South Wales ..	5.85	4.64	3.33	2.35	2.23
Victoria ..	5.81	4.32	3.69	3.43	3.52
Queensland ..	6.01	6.26	6.55	5.35	4.31
South Australia ..	5.78	5.48	4.14	3.81	3.42
Western Australia ..	5.61	6.17	5.74	4.79	4.03
Tasmania ..	6.78	5.68	5.40	4.75	4.07
Australia ..	5.86	4.81	3.94	3.26	3.07

4. Industries Employing Child Labour.—The distribution of children employed in factories in June, 1944, and the percentage on the total number employed are given in the following table according to the class of industry :—

FACTORIES : CHILDREN EMPLOYED, BY CLASSES, JUNE, 1944.

Class of Industry.	Children Employed.		Total Number Employed.(a)		Percentage of Children on Total Number Employed.(a)	
	Males.	Females.	Males.	Females.	Males.	Females.
	No.	No.	No.	No.	%	%
I. Treatment of Non-metalliferous Mine and Quarry Products ..	117	15	6,980	425	1.68	3.53
II. Bricks, Pottery, Glass, etc. ..	206	40	8,438	1,164	2.44	3.44
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease ..	376	358	24,742	13,093	1.52	2.73
IV. Industrial Metals, Machines, Implements and Conveyances	6,207	1,177	276,493	51,406	2.24	2.29
V. Precious Metals, Jewellery and Plate ..	75	24	1,444	583	5.19	4.12
VI. Textiles and Textile Goods ..	867	1,662	22,221	34,701	3.90	4.79
VII. Skins and Leather ..	182	115	8,879	3,334	2.05	3.45
VIII. Clothing ..	644	3,878	17,793	60,088	3.62	6.45
IX. Food, Drink and Tobacco ..	1,660	1,116	68,932	29,555	2.41	3.78
X. Woodworking and Basketware ..	1,069	82	31,114	1,869	3.44	4.39
XI. Furniture, Bedding, etc. ..	539	60	6,984	1,910	7.72	3.14
XII. Paper, Stationery, Printing, Bookbinding, etc. ..	758	714	21,672	12,392	3.50	5.76
XIII. Rubber ..	114	31	5,828	2,041	1.96	1.52
XIV. Musical Instruments ..	11	4	237	100	4.64	4.00
XV. Miscellaneous Products ..	232	168	7,320	4,662	3.17	3.60
Total, Classes I. to XV. ..	13,057	9,444	509,077	217,323	2.56	4.35
XVI. Heat, Light and Power ..	57	1	9,099	107	0.63	0.93
Grand Total ..	13,114	9,445	518,176	217,430	2.53	4.34

(a) Excludes Working Proprietors.

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

§ 7. Salaries and Wages Paid and Value of Production.

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

1. *General.*—The importance of the manufacturing industries of Australia is indicated by the fact that the total value of the output for 1943-44 was £891,739,216, of which amount £498,923,060 represented the value of the materials used, including containers, etc., tools replaced and repairs to plant and buildings, and £26,580,669 the value of the power, fuel and light used. The difference between the sum of the last two amounts and the value of the output, namely £366,235,487, 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 1943-44 was £216,873,819. This figure, which excludes amounts drawn by working proprietors, shows an increase of £8,006,976 or 3.8 per cent. on that for the previous year.

2. *Salaries and Wages Paid.*—(i) *In Classes of Industry, 1943-44.* The amounts of salaries and wages paid in the various classes of industry in each State are shown in the following table :—

FACTORIES : SALARIES AND WAGES PAID, 1943-44.

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
	£	£	£	£	£	£	£
I. Treatment of Non-metalliferous Mine and Quarry Products ..	1,148,169	604,014	224,171	216,196	109,441	100,187	2,402,178
II. Bricks, Pottery, Glass etc. ..	1,728,805	698,167	112,213	178,135	74,529	13,399	2,805,248
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease ..	3,355,961	5,775,765	239,603	2,952,993	273,705	33,911	12,631,938
IV. Industrial Metals, Machines, Implements and Conveyances ..	53,452,436	33,412,978	7,369,867	9,914,890	3,594,201	2,216,661	109,961,033
V. Precious Metals, Jewellery and Plate ..	206,858	286,938	23,544	33,053	13,477	2,024	565,894
VI. Textiles and Textile Goods ..	4,452,895	6,836,192	260,688	753,920	179,571	608,041	13,091,307
VII. Skins and Leather ..	1,667,485	1,277,220	295,308	101,352	142,360	57,584	3,541,309
VIII. Clothing ..	6,019,012	6,612,472	998,515	807,104	450,763	113,690	15,001,556
IX. Food, Drink and Tobacco ..	8,736,706	8,897,101	5,365,531	2,033,386	1,178,898	941,381	27,153,003
X. Woodworking and Basketware ..	3,441,190	2,411,445	1,641,465	508,443	643,095	443,189	9,088,827
XI. Furniture, Bedding, etc. ..	1,035,306	571,521	304,758	199,020	111,539	58,021	2,280,165
XII. Paper, Stationery, Printing, Book-binding, etc. ..	4,071,188	3,209,316	696,065	544,550	314,968	478,848	9,314,875
XIII. Rubber ..	1,231,519	1,019,014	88,722	43,544	23,429	14,191	2,420,419
XIV. Musical Instruments ..	71,356	11,296	4,687	5,649	2,088	..	95,076
XV. Miscellaneous Products ..	1,493,616	1,364,043	114,711	88,771	65,154	60,280	3,186,575
Total, Classes I. to XV.	92,112,502	72,987,482	17,739,848	18,381,006	7,177,158	5,141,407	213,539,403
XVI. Heat, Light and Power ..	1,405,824	973,711	331,841	330,407	240,437	52,196	3,334,416
Grand Total ..	93,518,326	73,961,193	18,071,689	18,711,413	7,417,595	5,193,603	216,873,819

(ii) *Totals and Averages, 1938-39 and 1940-41 to 1943-44.* The following statement shows the total amount of salaries and wages paid, and the average amount paid per employee in each State, for each of the years 1938-39 and 1940-41 to 1943-44. The average wage paid is not comparable with that shown in similar tables in issues of the

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

FACTORIES : TOTAL AND AVERAGE SALARIES AND WAGES PAID.

Year.	Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
		£	£	£	£	£	£	£
1938-39	Total amount paid . .	44,606,497	36,026,542	10,887,229	8,169,350	4,573,558	2,470,886	106,743,062
	Average per employee . .	201.77	185.64	210.78	195.57	207.90	188.31	196.31
1940-41	Total amount paid . .	57,759,532	49,796,607	12,163,763	10,418,901	4,720,563	3,059,702	137,919,068
	Average per employee . .	224.14	216.45	221.42	211.70	218.77	201.42	219.38
1941-42	Total amount paid . .	75,757,655	64,363,277	14,476,768	16,234,164	5,499,568	3,720,770	180,052,212
	Average per employee . .	261.13	256.43	242.17	254.84	240.09	210.72	255.60
1942-43	Total amount paid . .	88,900,826	73,035,253	16,737,545	19,243,290	6,477,113	4,472,816	208,866,843
	Average per employee . .	289.12	286.21	268.64	270.10	260.74	252.73	282.73
1943-44	Total amount paid . .	93,518,326	73,961,193	18,071,689	18,711,413	7,417,595	5,193,603	216,873,819
	Average per employee . .	297.45	291.85	288.27	275.00	373.44	270.85	291.16

In comparing the figures in the preceding table, regard should be paid to the nature of certain industries which are carried on to a greater extent in some States than in others. In Victoria, for instance, there is a large number of hands employed in Class VIII., Clothing, comprising a high percentage of women and children. The highest average wages per employee in 1943-44 were paid in New South Wales, Victoria and Queensland in that order.

Since 1933-34 the average earnings per employee have risen each year and in 1943-44 attained a record high level as a result of war-time conditions.

(iii) *Earnings of Males and Females, 1943-44.* The following table shows the approximate amount of salaries and wages paid to males and females in each class of industry in each State during the year 1943-44 :—

SALARIES AND WAGES : MALE AND FEMALE FACTORY EMPLOYEES, 1943-44.

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
MALES.							
I. Treatment of Non-metalliferous Mine and Quarry Products . .	£ 1,121,914	£ 577,980	£ 219,137	£ 208,556	£ 106,821	£ 98,892	£ 2,333,300
II. Bricks, Pottery, Glass etc. . .	1,615,724	636,095	107,001	172,246	70,044	12,927	2,614,037
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease . .	2,272,444	4,295,314	204,421	2,025,119	253,408	31,666	9,537,372
IV. Industrial Metals, Machines, Implements and Conveyances . .	47,860,346	29,926,635	6,835,432	8,940,792	3,213,382	2,051,652	98,828,239
V. Precious Metals, Jewellery and Plate . .	167,382	218,303	20,743	29,693	12,271	1,690	450,082
VI. Textiles and Textile Goods . .	2,262,220	3,830,747	146,054	513,240	114,374	327,360	7,193,995
VII. Skins and Leather . .	1,363,771	1,075,233	277,051	70,228	127,298	55,734	2,969,315
VIII. Clothing . .	2,254,843	2,595,955	315,506	285,121	150,314	46,656	5,648,395
IX. Food, Drink and Tobacco . .	6,779,169	7,266,159	4,947,098	1,706,825	1,007,106	735,477	22,441,834
X. Woodworking and Basketware . .	3,306,411	2,329,227	1,589,010	491,224	639,382	433,477	8,788,731
XI. Furniture, Bedding, etc. . .	885,031	481,543	274,257	175,444	96,639	54,575	1,967,489
XII. Paper, Stationery, Printing, Book-binding, etc. . .	3,145,181	2,552,169	548,497	437,156	255,506	430,659	7,369,168
XIII. Rubber . .	1,012,193	876,789	75,373	38,677	21,927	12,604	2,037,563
XIV. Musical Instruments . .	54,558	11,216	4,687	5,031	2,088		77,580
XV. Miscellaneous Products . .	1,135,079	660,236	88,217	71,323	57,350	20,193	2,350,208
Total, Classes I. to XV. . .	75,691,266	57,642,601	15,652,484	15,170,675	6,127,910	4,322,562	174,607,498
XVI. Heat, Light and Power . .	1,399,068	908,113	331,841	320,191	239,477	51,746	3,316,476
Grand Total . .	77,087,334	58,610,714	15,984,325	15,490,866	6,367,387	4,374,298	177,923,974

SALARIES AND WAGES: MALE AND FEMALE FACTORY EMPLOYEES,
1943-44—continued.

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
FEMALES.							
	£	£	£	£	£	£	£
I. Treatment of Non-metalliferous Mine and Quarry Products ..	26,255	26,034	5,034	7,640	2,620	1,295	68,878
II. Bricks, Pottery, Glass, etc. ..	113,081	62,072	5,212	5,889	4,485	472	191,211
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease ..	628,517	1,480,451	35,182	927,874	20,297	2,245	3,094,566
IV. Industrial Metals, Machines, Implements and Conveyances ..	5,592,090	3,486,343	534,435	974,098	380,819	165,000	11,132,794
V. Precious Metals, Jewellery and Plate ..	39,476	68,635	2,801	3,360	1,206	334	115,812
VI. Textiles and Textile Goods ..	2,190,675	3,005,445	114,634	240,680	65,197	280,681	5,897,312
VII. Skins and Leather ..	303,714	201,987	18,257	31,124	15,062	1,850	571,994
VIII. Clothing ..	3,764,169	4,016,517	685,009	521,983	300,449	67,034	9,353,161
IX. Food, Drink and Tobacco ..	1,957,537	1,630,942	418,433	326,561	171,792	205,904	4,711,169
X. Woodworking and Basketware ..	134,779	82,218	52,455	17,219	3,713	9,712	300,096
XI. Furniture, Bedding, etc. ..	150,275	89,978	30,501	23,576	14,900	3,446	312,676
XII. Paper, Stationery, Printing, Book-binding, etc. ..	926,007	657,147	147,568	107,394	59,402	48,189	1,945,707
XIII. Rubber ..	219,326	142,225	13,349	4,867	1,502	1,587	382,856
XIV. Musical Instruments ..	16,798	80	..	618	..	..	17,496
XV. Miscellaneous Products ..	358,537	394,807	26,494	17,448	7,804	31,087	836,177
Total, Classes I. to XV.	16,421,236	15,344,881	2,087,364	3,210,331	1,049,248	818,845	38,931,905
XVI. Heat, Light and Power ..	9,756	5,598	..	1,216	960	460	17,990
Total	16,430,992	15,350,479	2,087,364	3,211,547	1,050,208	819,305	38,948,895

(iv) *Total and Average Earnings of Males and Females, 1938-39 and 1940-41 to 1943-44.* Particulars for these years are given in the table hereunder:—

TOTAL AND AVERAGE SALARIES AND WAGES: MALES AND FEMALES.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
MALES.							
1938-39. Amount paid ..	£ 38,271,867	29,005,746	9,920,001	7,487,828	4,128,824	2,234,413	91,048,679
Per cent. on total ..	85.80	80.51	91.12	91.66	90.28	90.10	85.30
Average per employee ..	£ 239.24	224.47	238.59	220.95	235.49	212.09	231.84
1940-41. Amount paid ..	£ 49,539,287	40,389,071	11,076,635	9,340,490	4,241,954	2,687,453	117,274,890
Per cent. on total ..	85.77	81.11	91.06	89.65	89.86	87.83	85.03
Average per employee ..	£ 265.35	260.54	249.91	242.30	251.14	229.34	258.77
1941-42. Amount paid ..	£ 64,850,115	52,180,184	13,059,246	14,185,487	4,928,138	3,238,564	152,441,674
Per cent. on total ..	85.60	81.07	90.21	87.38	89.61	87.04	84.67
Average per employee ..	£ 309.85	308.76	274.06	292.68	276.88	253.09	301.86
1942-43. Amount paid ..	£ 74,554,677	58,089,270	14,939,988	16,113,870	5,650,928	3,876,990	173,230,723
Per cent. on total ..	83.86	79.54	89.26	83.76	87.24	86.68	82.94
Average per employee ..	£ 344.72	344.06	308.49	313.74	304.34	290.30	335.17
1943-44. Amount paid ..	£ 77,087,334	58,610,714	15,984,325	15,490,866	6,367,387	4,374,298	177,923,924
Per cent. on total ..	82.43	79.25	88.45	82.84	85.84	84.22	82.04
Average per employee ..	£ 352.15	349.02	326.70	314.99	316.28	310.15	342.68

TOTAL AND AVERAGE SALARIES AND WAGES: MALES AND FEMALES

—continued.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
FEMALES.							
1938-39. Amount paid	£ 6,334,630	7,020,796	967,228	681,522	444,734	245,473	15,694,383
Per cent. on total	14.20	19.49	8.88	8.34	9.72	9.90	14.70
Average per employee	£ 103.66	108.25	96.00	86.44	99.58	93.19	103.92
1940-41. Amount paid	£ 8,220,245	9,407,536	1,087,128	1,078,411	478,609	372,249	20,644,178
Per cent. on total	14.23	18.89	8.94	10.35	10.14	12.17	14.97
Average per employee	£ 115.79	125.37	102.43	101.13	102.11	107.18	117.65
1941-42. Amount paid	£ 10,907,541	12,183,093	1,417,522	3,048,677	571,430	482,275	27,610,538
Per cent. on total	14.40	18.93	9.70	12.62	10.39	12.06	15.33
Average per employee	£ 134.96	148.57	116.85	134.47	111.89	116.55	138.44
1942-43. Amount paid	£ 14,346,149	14,945,983	1,797,557	3,124,420	826,185	595,826	35,636,120
Per cent. on total	16.14	20.46	10.74	16.24	12.76	13.32	17.06
Average per employee	£ 157.29	173.10	129.55	157.27	131.70	137.19	160.59
1943-44. Amount paid	£ 16,430,992	15,350,479	2,087,364	3,211,547	1,050,208	819,305	38,949,895
Per cent. on total	17.57	20.75	11.55	17.16	14.16	15.78	17.96
Average per employee	£ 172.07	179.65	151.65	169.77	150.14	161.57	171.30

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

SALARIES AND WAGES: MANAGERS, OVERSEERS, ETC., AND OTHER EMPLOYEES, 1943-44.

Class of Industry.	Salaries and Wages Paid to—						
	Managers, Overseers, Accountants and Clerks.		All Other Employees.		All Employees.		
	Males.	Females.	Males.	Females.	Males.	Females.	Total.
	£	£	£	£	£	£	£
I. Treatment of Non-metalliciferous Mine and Quarry Products	333,054	45,376	2,000,246	23,502	2,333,300	68,878	2,402,178
II. Bricks, Pottery, Glass, etc.	316,105	62,256	2,297,932	128,955	2,614,037	191,211	2,805,248
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease	1,642,966	456,976	7,894,406	2,607,590	9,537,372	3,094,566	12,631,938
IV. Industrial Metals, Machines, Implements and Conveyances	12,669,375	2,908,469	86,158,864	8,224,325	98,828,239	11,132,794	109,961,033
V. Precious Metals, Jewellery and Plate	57,810	26,784	392,272	89,028	450,082	115,812	565,894
VI. Textiles and Textile Goods	1,162,741	364,399	6,031,254	5,532,913	7,193,995	5,897,312	13,091,307
VII. Skins and Leather	338,483	58,726	2,630,832	513,268	2,969,315	574,994	3,544,309
VIII. Clothing	909,296	565,156	4,739,099	8,788,005	5,648,395	9,353,161	15,001,556
IX. Food, Drink, and Tobacco	3,567,321	887,119	18,874,513	3,824,050	22,441,834	4,711,169	27,153,003
X. Woodworking and Basketware	917,226	175,068	7,871,505	125,028	8,788,731	300,096	9,088,827
XI. Furniture, Bedding, etc.	216,192	73,731	1,751,297	238,945	1,967,489	312,676	2,280,165
XII. Paper, Stationery, Printing, Book-binding, etc.	1,374,018	460,344	5,995,150	1,485,363	7,369,168	1,945,707	9,314,875
XIII. Rubber	426,285	89,852	1,611,278	293,004	2,037,563	382,856	2,420,419
XIV. Musical Instruments	13,817	8,817	63,763	8,679	77,580	17,496	95,076
XV. Miscellaneous Products	370,271	120,435	1,980,127	715,742	2,350,398	836,177	3,186,575
Total, Classes I. to XV.	24,314,960	6,333,508	150,292,538	32,598,397	174,607,498	38,931,905	213,539,403
XVI. Heat, Light and Power	540,582	14,908	2,775,844	3,082	3,316,426	17,900	3,334,416
Grand Total	24,855,542	6,348,416	153,068,382	32,601,479	177,923,924	38,949,805	216,873,819
Average paid per employee	483.77	188.44	327.18	169.84	342.68	172.62	291.16

3. Power, Fuel and Light Used.—(i) *In Classes of Industry, 1943-44.* The expenditure by factories on power, fuel and light is of considerable importance; in 1943-44 it amounted to £26,580,669, an increase of £954,147 as compared with the previous year. The following table shows the value of power, fuel and light used in the different classes of industry in 1943-44:—

FACTORIES: VALUE OF POWER, FUEL AND LIGHT USED (a), 1943-44.

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
I. Treatment of Non-metaliferous Mine and Quarry Products	£	£	£	£	£	£	£
II. Bricks, Pottery, Glass, etc.	348,450	235,645	94,008	88,298	45,537	64,880	876,818
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease	495,270	293,897	35,566	82,615	43,553	3,319	954,220
IV. Industrial Metals, Machines, Implements and Conveyances	515,507	590,743	41,151	381,350	53,503	6,006	1,588,260
V. Precious Metals, Jewellery and Plate	5,818,617	1,379,736	295,003	617,851	197,351	340,831	8,649,389
VI. Textiles and Textile Goods	11,353	17,004	1,022	4,514	433	112	34,438
VII. Skins and Leather	319,100	608,432	20,560	91,989	14,758	43,370	1,008,224
VIII. Clothing	144,416	115,823	36,383	3,654	22,740	11,141	334,187
IX. Food, Drink and Tobacco	172,705	203,453	21,887	23,388	11,739	3,568	436,740
X. Woodworking and Basketware	1,560,311	1,396,615	820,875	428,357	287,463	140,503	4,634,124
XI. Furniture, Bedding, etc.	209,799	126,346	79,005	28,550	45,613	33,013	522,326
XII. Paper, Stationery, Printing, Book-binding etc.	30,554	17,702	8,334	7,978	3,061	1,678	69,307
XIII. Rubber	222,808	347,103	32,643	70,376	15,640	190,175	878,754
XIV. Musical Instruments	138,265	176,747	12,179	5,392	3,427	1,977	337,987
XV. Miscellaneous Products	6,100	437	63	36	6		6,642
Total, Classes I. to XV.	77,476	49,341	2,768	7,201	1,419	2,008	140,303
XVI. Heat, Light and Power	10,070,761	5,559,024	1,501,456	1,841,633	746,252	842,587	20,561,719
Grand Total	2,737,279	1,267,718	660,657	594,410	757,092	1,794	6,018,950
	12,808,040	6,826,742	2,162,113	2,436,040	1,503,344	844,381	26,580,669

(a) Includes value of lubricants and water.

(ii) *Values of Items, 1943-44.* The following table shows the values of the various items of power, fuel and light used in factories in each State during the year 1943-44:—

FACTORIES: VALUE OF ITEMS OF POWER, FUEL AND LIGHT USED (a), 1943-44.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
	£	£	£	£	£	£	£
Coal	3,907,140	2,646,154	1,034,117	821,140	333,249	124,755	8,866,555
Coke	2,361,577	270,186	43,436	105,236	48,115	8,096	2,836,646
Wood	211,623	337,134	187,840	175,253	256,518	157,609	1,325,977
Other (Charcoal, etc.)	211,441	163,195	29,249	98,775	14,295	6,617	523,572
Fuel Oil	1,119,860	575,281	192,155	272,465	420,008	55,839	2,644,608
Gas	1,011,387	209,735	30,927	79,185	20,679	36,232	1,388,145
Electricity	3,042,900	1,975,703	428,765	703,566	284,282	396,313	6,831,529
Water and Lubricating Oil	942,112	640,354	215,624	180,429	117,198	58,920	2,163,637
Total	12,808,040	6,826,742	2,162,113	2,436,049	1,503,344	844,381	26,580,669

(a) Includes value of lubricants and water.

(iii) *Quantities of Fuel used, 1943-44.* The following table shows the quantities of items of fuel used in factories in each State during the year 1943-44:—

FACTORIES: QUANTITIES OF FUEL USED, 1943-44.

Particulars.	Unit.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Coal	Ton	3,036,600	4,930,756	634,871	383,661	215,241	75,356	9,276,485
Coke	"	1,599,071	139,713	23,221	41,341	17,908	4,004	1,816,258
Wood	"	169,482	432,073	240,556	154,557	341,980	160,401	1,499,049
Fuel Oil	Gal	22,718,008	11,870,738	3,230,128	5,000,117	7,624,873	575,436	52,027,390

(iv) *Total Value, 1938-39 and 1940-41 to 1943-44.* The next table gives the sums expended on power, fuel and light during the years 1940-41 to 1943-44 compared with 1938-39 :—

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

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
	£	£	£	£	£	£	£
1938-39	7,651,627	3,999,934	1,423,549	1,017,537	1,169,268	438,006	15,699,921
1940-41	9,629,123	5,138,787	1,655,937	1,109,683	1,309,748	597,429	19,722,707
1941-42	11,228,813	6,144,579	1,915,087	2,066,010	1,399,228	705,746	23,450,463
1942-43	12,307,663	6,514,447	2,195,774	2,460,301	1,437,624	791,713	25,626,522
1943-44	12,808,040	6,826,742	2,162,113	2,435,049	1,503,344	844,381	26,580,669

(a) Includes value of lubricants and water.

4. *Value of Materials Used.—(i) In Classes of Industry, 1943-44.* 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 1943-44 was £498,923,060, representing 55.95 per cent. of the value of the final output (see par. 5). The following table shows the value of the materials used in various classes of industry in each State :—

FACTORIES : VALUE OF MATERIALS USED, 1943-44.

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
	£	£	£	£	£	£	£
I. Treatment of Non-metaliferous Mine and Quarry Products ..	3,897,779	1,109,183	526,449	345,712	178,714	172,202	6,230,039
II. Bricks, Pottery, Glass, etc. ..	1,354,168	508,832	59,742	159,442	50,815	11,021	2,144,020
III. Chemicals, Dyes, Explosives, Paint Oils and Grease ..	14,152,671	12,196,141	966,808	5,360,316	1,425,026	196,267	34,297,229
IV. Industrial Metals, Machines, Implements and Conveyances ..	95,454,529	37,852,677	7,360,884	13,452,040	3,446,058	2,854,174	160,420,362
V. Precious Metals, Jewellery and Plate ..	240,357	450,918	14,957	33,264	20,226	365	760,087
VI. Textiles and Textile Goods ..	13,127,249	18,148,555	904,912	2,279,365	467,542	1,535,999	36,463,619
VII. Skins and Leather ..	4,999,686	3,548,866	2,526,856	216,675	253,372	293,136	11,838,588
VIII. Clothing ..	11,849,422	14,572,657	1,542,211	951,675	763,600	136,181	29,815,752
IX. Food, Drink and Tobacco ..	53,995,140	46,993,941	38,752,785	10,892,580	6,706,645	4,074,972	110,426,072
X. Woodworking and Basketware ..	8,085,491	4,580,585	3,196,348	1,405,243	954,261	711,391	18,942,326
XI. Furniture, Bedding etc. ..	1,999,600	1,295,161	518,290	354,602	225,533	84,691	4,477,887
XII. Paper, Stationery, Printing, Book-binding, etc. ..	7,768,120	6,717,141	810,618	677,903	387,757	771,891	17,133,445
XIII. Rubber ..	3,720,333	3,426,663	318,368	89,954	46,840	25,441	7,627,542
XIV. Musical Instruments ..	48,635	5,571	916	1,104	315	..	56,543
XV. Miscellaneous Products ..	1,940,327	1,539,577	86,158	235,828	59,863	26,131	2,816,928
Total, Classes I. to XV. ..	221,742,577	152,915,454	57,586,299	36,355,703	14,986,576	10,893,870	494,480,479
XVI. Heat, Light and Power ..	1,861,063	1,575,200	359,407	375,139	207,142	64,540	4,442,581
Grand Total ..	223,603,640	154,490,654	57,945,790	36,730,842	15,193,718	10,958,410	498,923,060

(ii) *Total Amount, 1938-39 and 1940-41 to 1943-44.* The following table gives the values of materials used in factories for the years 1940-41 to 1943-44 compared with 1938-39 :—

FACTORIES : VALUE OF MATERIALS USED.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
	£	£	£	£	£	£	£
1938-39	120,501,795	82,971,608	42,596,049	20,308,797	9,603,657	5,321,540	281,303,446
1940-41	161,252,339	115,209,347	46,936,189	25,283,544	11,498,304	6,978,120	367,157,852
1941-42	189,469,148	140,198,887	49,384,624	33,264,628	12,452,275	8,300,918	433,160,480
1942-43	207,599,130	149,630,126	55,063,141	36,745,047	13,845,868	9,826,766	472,720,078
1943-44	223,603,640	154,490,654	57,945,796	36,730,842	15,193,713	10,958,410	498,923,060

5. Value of Output.—(i) *In Classes of Industry, 1943-44.* The value of the output of new goods manufactured and of repairs effected in factories of various classes in each State in 1943-44 is shown in the following table. The figures given represent not only the increase in value due to the process of manufacture, but include also the values of the raw materials and the power, fuel and light used. The difference between the sum of the values of the materials and of the power fuel and light used, and the value of output is the real value of factory production (see par. 6).

FACTORIES : VALUE OF OUTPUT, 1943-44.

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
	£	£	£	£	£	£	£
I. Treatment of Non-metaliferous Mine and Quarry Products ..	6,596,208	2,565,401	1,078,709	771,837	414,110	439,078	11,865,343
II. Bricks, Pottery, Glass, etc. ..	4,442,182	2,037,535	308,531	579,532	225,159	34,165	7,627,104
III. Chemicals, Explosives, Paint, Oils and Grease ..	24,326,551	22,779,005	1,584,959	10,811,955	2,050,368	261,075	61,813,913
IV. Industrial Metals, Machines, Implements and Conveyances ..	179,798,028	86,834,407	17,860,225	26,540,420	8,737,826	6,689,943	326,460,849
V. Precious Metals, Jewellery and Plate ..	654,113	951,237	64,244	96,791	45,387	3,525	1,815,297
VI. Textiles and Textile Goods ..	21,548,078	30,461,302	1,364,835	3,560,045	722,971	2,662,341	60,328,572
VII. Skins and Leather ..	7,805,981	5,781,860	3,108,078	383,722	492,478	395,736	18,057,855
VIII. Clothing ..	22,068,767	25,855,930	3,149,340	2,228,565	1,519,806	326,245	55,148,653
IX. Food, Drink and Tobacco ..	76,095,151	67,351,533	49,832,206	15,391,095	9,730,348	5,812,812	224,213,235
X. Woodworking and Basketware ..	13,838,985	8,785,451	5,859,331	2,317,177	1,947,823	1,400,146	34,148,913
XI. Furniture, Bedding, etc. ..	3,786,136	2,452,199	1,031,365	714,832	438,636	187,865	8,611,033
XII. Paper, Stationery, Printing, Book-binding, etc. ..	16,048,983	13,356,130	2,045,822	1,685,827	1,005,972	2,219,515	36,362,258
XIII. Rubber ..	5,504,107	5,491,770	490,906	180,390	99,659	61,668	11,828,500
XIV. Musical Instruments ..	175,090	22,768	8,453	9,592	3,088	..	218,991
XV. Miscellaneous Products ..	4,573,228	3,841,669	278,960	313,584	159,616	103,829	9,270,886
Total, Classes I. to XV. ..	387,351,588	278,568,206	88,066,054	65,594,364	27,593,247	20,597,943	867,771,402
XVI. Heat, Light and Power ..	11,786,102	6,079,708	2,252,383	1,984,013	1,615,341	250,267	23,967,814
Grand Total ..	399,137,690	284,647,914	90,318,437	67,578,377	29,208,588	20,848,210	891,739,216

(ii) *Total, 1938-39 and 1940-41 to 1943-44.* The following table shows the value of output in each State during the years 1940-41 to 1943-44 compared with 1938-39 :-

FACTORIES : VALUE OF OUTPUT.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
	£	£	£	£	£	£	£
1938-39 ..	218,419,313	152,967,611	63,321,073	35,005,264	19,548,511	11,158,205	500,419,977
1940-41 ..	285,916,350	209,348,845	70,236,464	43,000,329	21,824,974	13,867,446	644,794,908
1941-42 ..	339,488,312	257,281,080	76,130,050	59,896,493	23,952,034	16,311,002	773,058,971
1942-43 ..	373,489,055	277,635,040	86,213,475	67,568,707	26,737,549	18,703,930	850,348,656
1943-44 ..	399,137,690	284,647,914	90,318,437	67,578,377	29,208,588	20,848,210	891,739,216

6. Value of Production.—(i) *In Classes of Industry, 1943-44.* 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 subsequently agreed that the particulars obtained should be published but that no deduction should be made on this account for the present. The value of production as given in the following tables is obtained, therefore, by deducting "value of materials used" and "value of fuel used" from the "value of the output".

The figure thus calculated is, however, not the net value of production. The deduction for depreciation, particulars of which are shown in § 8, par. 4, was estimated at £20,806,853 for 1943-44. Many miscellaneous expenses, such as insurance and advertising, 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 following table shows the value of production in 1943-44 in each State for the various classes of factories :—

FACTORIES : VALUE OF PRODUCTION, 1943-44.

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
	£	£	£	£	£	£	£
I. Treatment of Non-metaliferous Mine and Quarry Products ..	2,349,979	1,220,573	458,252	337,827	189,859	201,996	4,758,486
II. Bricks, Pottery, Glass, etc.	2,592,744	1,234,806	213,223	337,475	130,791	19,825	4,528,864
III. Chemicals, Dyes, Explosives, Paints, Oils and Grease ..	9,658,373	9,992,121	577,000	5,070,289	571,839	58,802	25,928,424
IV. Industrial Metals, Machines, Implements and Conveyances ..	78,524,882	47,601,994	10,204,338	12,470,529	5,094,417	3,494,938	157,391,098
V. Precious Metals, Jewellery and Plate ..	402,403	483,315	48,265	59,013	24,728	3,048	1,020,772
VI. Textiles and Textile Goods ..	8,101,729	11,704,318	439,354	1,197,691	240,671	1,082,966	22,766,729
VII. Skins and Leather ..	2,751,855	2,117,168	344,839	163,393	216,366	91,459	5,885,080
VIII. Clothing ..	10,046,640	11,079,819	1,585,242	1,253,502	744,467	186,491	24,896,161
IX. Food, Drink, and Tobacco ..	21,439,691	19,050,977	10,258,636	4,070,158	2,736,240	1,597,337	59,153,039
X. Woodworking and Basketware ..	5,543,687	4,069,522	2,583,978	883,384	949,949	655,741	14,684,261
XI. Furniture, Bedding, etc. ..	1,755,980	1,139,329	504,741	352,252	210,042	101,495	4,063,839
XII. Paper, Stationery, Printing, Book-binding, etc. ..	8,058,046	6,201,890	1,202,561	937,548	602,566	1,257,448	18,350,050
XIII. Rubber ..	1,645,508	1,888,387	160,359	85,044	49,383	34,250	3,862,931
XIV. Musical Instruments ..	120,355	16,758	7,474	8,452	2,767	..	155,806
XV. Miscellaneous Products ..	2,546,378	2,202,751	190,937	170,465	98,334	75,690	5,283,655
Total, Classes I. to XV.	155,538,250	120,093,728	28,978,299	27,397,022	11,860,419	8,861,486	352,729,204
XVI. Heat, Light and Power ..	7,187,760	3,236,790	1,232,229	1,014,464	651,107	183,933	13,506,283
Grand Total	162,726,010	123,330,518	30,210,528	28,411,486	12,511,526	9,045,419	366,235,487

(ii) *Total and Averages, 1938-39 and 1940-41 to 1943-44.* The value of production and the amount per person engaged and per head of population are shown in the following table for the last four years compared with 1938-39 :—

FACTORIES : VALUE OF PRODUCTION.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
VALUE.							
	£	£	£	£	£	£	£
1938-39 ..	90,265,891	65,096,069	19,301,475	13,678,930.	8,775,586	5,398,659	203,416,610
1940-41 ..	115,044,368	89,000,711	21,644,338	16,916,102	9,016,922	6,291,838	257,914,349
1941-42 ..	138,790,351	110,937,614	24,830,339	24,565,855	10,100,531	7,214,338	316,439,028
1942-43 ..	153,682,262	121,391,367	29,044,560	28,354,359	11,454,057	8,075,451	352,002,056
1943-44 ..	162,726,010	123,330,518	30,210,528	28,411,486	12,511,526	9,045,419	366,235,487

PER PERSON ENGAGED.

	£	£	£	£	£	£	£
1938-39 ..	395	327	357	315	378	391	360
1940-41 ..	433	375	378	333	397	397	397
1941-42 ..	465	429	401	376	421	411	436
1942-43 ..	487	463	452	390	444	441	464
1943-44 ..	501	472	467	408	445	457	478

PER HEAD OF POPULATION.

	£	£	£	£	£	£	£
1938-39 ..	33.02	35.20	19.17	23.01	18.97	22.79	29.36
1940-41 ..	41.26	46.34	21.01	28.29	19.25	26.21	36.49
1941-42 ..	49.35	56.77	23.99	40.60	21.56	30.14	44.34
1942-43 ..	54.29	61.58	27.85	46.26	23.85	33.45	48.90
1943-44 ..	57.00	62.08	28.55	45.93	25.93	37.63	50.42

7. *Value of Output and Cost of Production.*—As the total value of the output for Australia for 1943-44 was estimated at £891,739,216, there remained, after payment of £498,923,060 for the value of the materials used, of £216,873,819 for salaries and wages, and of £26,580,669 for power, fuel and light, the sum of £149,361,668 to provide for all other expenditure, depreciation, interest and profits. The following table gives corresponding particulars for each State expressed absolutely and as percentages on the total value of the output for the year 1943-44 :—

FACTORIES : VALUE OF OUTPUT AND COST OF PRODUCTION, 1943-44.

State.	Materials Used. (a)	Power, Fuel and Light. (b)	Salaries and Wages.	All other Expenditure, Interest, Profits, etc.	Total Value of Output.
VALUE AND COST, ETC.					
	£	£	£	£	£
New South Wales ..	223,603,640	12,808,040	93,518,326	69,207,684	399,137,690
Victoria ..	154,490,654	6,826,742	73,961,193	49,369,325	284,647,914
Queensland ..	57,945,796	2,162,113	18,071,639	12,138,839	90,318,437
South Australia ..	36,730,842	2,436,049	18,711,413	9,700,073	67,578,377
Western Australia ..	15,193,718	1,503,344	7,417,595	5,093,931	29,208,588
Tasmania ..	10,958,410	844,381	5,193,603	3,851,816	20,848,210
Australia ..	498,923,060	26,580,669	216,873,819	149,361,668	891,739,216

(a) Includes the value of containers, packing, etc., also the cost of tools replaced and repairs to plant.
(b) Includes lubricants and water.

FACTORIES : VALUE OF OUTPUT AND COST OF PRODUCTION, 1943-44—
continued.

State.	Materials Used. (a)	Power, Fuel and Light. (b)	Salaries and Wages.	All other Expenditure, Interest, Profits, etc.	Total Value of Output.
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PERCENTAGE OF COSTS, ETC., ON TOTAL VALUE.

	%	%	%	%	%
New South Wales ..	56.02	3.21	23.43	17.34	100.00
Victoria ..	54.27	2.40	25.98	17.35	100.00
Queensland ..	64.16	2.39	20.72	12.73	100.00
South Australia ..	54.35	3.60	27.69	14.36	100.00
Western Australia ..	52.02	5.15	25.40	17.43	100.00
Tasmania ..	52.57	4.04	24.91	18.48	100.00
Australia ..	55.95	2.98	24.32	16.75	100.00

(a) Includes the value of containers, packing, etc., also the cost of tools replaced and repairs to plant.
(b) Includes lubricants and water.

§ 8. 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 1943-44 :—

FACTORIES : VALUE OF LAND, BUILDINGS, PLANT AND MACHINERY, 1943-44.

Value of—	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
	£	£	£	£	£	£	£
Land and buildings	78,978,013	55,062,982	13,262,504	17,629,235	6,920,805	5,293,066	177,146,605
Plant and machinery	73,803,954	55,457,719	17,886,417	18,415,477	7,364,909	8,064,293	180,992,769
Total ..	152,781,967	110,520,701	31,148,921	36,044,712	14,285,714	13,357,359	358,139,374

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. The totals shown in the table consequently do not represent the actual amount of capital invested in the items specified.

2. Value of Land and Buildings.—(i) Total for Australia, 1938-39 and 1940-41 to 1943-44. 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 1940-41 to 1943-44.

FACTORIES : VALUE OF LAND AND BUILDINGS, AUSTRALIA.

Class of Industry.	1938-39.	1940-41.	1941-42.	1942-43.	1943-44.
	£	£	£	£	£
I. Treatment of Non-metalliferous Mine and Quarry Products ..	2,778,746	2,762,942	2,732,566	2,615,787	2,623,361
II. Bricks, Pottery, Glass, etc. ..	2,953,557	3,178,748	3,223,865	2,912,817	2,706,737
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease ..	7,377,551	10,461,634	17,220,487	18,668,292	18,635,144
IV. Industrial Metals, Machines, Implements and Conveyances ..	34,841,028	39,329,041	42,677,884	53,041,129	60,043,410
V. Precious Metals, Jewellery and Plate ..	633,009	688,763	642,390	579,780	590,482
VI. Textiles and Textile Goods ..	5,999,671	6,892,471	7,591,893	7,006,902	8,378,695
VII. Skins and Leather ..	2,095,886	2,225,791	2,269,186	2,279,645	2,327,945
VIII. Clothing ..	10,623,619	11,035,281	11,244,302	11,133,533	11,852,661
IX. Food, Drink and Tobacco ..	33,273,248	35,325,688	35,999,042	35,927,769	37,376,297
X. Woodworking and Basketware ..	4,106,963	4,425,422	4,639,596	4,623,716	4,811,963
XI. Furniture, Bedding, etc. ..	2,533,254	2,653,043	2,543,193	2,366,887	2,259,307
XII. Paper, Stationery, Printing, Bookbinding, etc. ..	10,639,315	11,514,735	11,519,651	11,478,257	11,408,044
XIII. Rubber ..	1,676,043	1,699,243	1,738,699	1,643,420	1,684,331
XIV. Musical Instruments ..	104,838	134,454	145,275	99,949	98,829
XV. Miscellaneous Products ..	1,432,857	1,620,870	1,981,221	2,113,450	2,292,206
Total, Classes I. to XV.	121,069,585	133,948,126	146,169,250	157,481,433	167,089,412
XVI. Heat, Light and Power ..	9,850,829	10,145,530	10,163,850	10,112,514	10,057,193
Grand Total ..	130,920,414	144,093,656	156,333,100	167,593,947	177,146,605

(ii) *In Classes of Industry in States, 1943-44.* The following table gives particulars of the various classes of industry in each State.

FACTORIES : VALUE OF LAND AND BUILDINGS, 1943-44.

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
	£	£	£	£	£	£	£
I. Treatment of Non-metalliferous Mine and Quarry Products ..	1,287,195	722,782	176,353	209,331	68,323	159,377	2,623,361
II. Bricks, Pottery, Glass, etc. ..	1,828,532	586,759	83,725	144,616	51,828	11,277	2,706,737
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease ..	4,259,177	6,133,054	227,143	7,216,153	715,507	84,110	18,635,144
IV. Industrial Metals, Machines, Implements and Conveyances ..	33,506,313	15,860,957	3,221,843	3,805,768	2,134,459	1,514,070	60,043,410
V. Precious Metals, Jewellery and Plate ..	228,480	263,969	24,699	43,052	24,057	6,225	590,482
VI. Textiles and Textile Goods ..	2,998,776	4,402,622	135,262	430,004	128,902	283,129	8,378,695
VII. Skins and Leather ..	1,059,799	898,140	128,223	75,585	125,573	40,625	2,327,945
VIII. Clothing ..	5,327,587	4,807,596	562,192	573,472	466,566	115,248	11,852,661
IX. Food, Drink and Tobacco ..	13,907,622	11,238,564	6,032,107	2,996,123	1,718,481	1,483,400	37,376,297
X. Woodworking and Basketware ..	2,162,556	1,318,768	498,041	385,154	260,241	187,203	4,811,963
XI. Furniture, Bedding, etc. ..	921,384	757,599	256,868	152,586	115,775	55,095	2,259,307
XII. Paper, Stationery, Printing, Bookbinding, etc. ..	4,655,115	3,853,866	923,018	740,066	499,722	736,257	11,408,044
XIII. Rubber ..	787,624	653,289	117,067	56,283	39,757	30,311	1,684,331
XIV. Musical Instruments ..	59,470	22,635	7,460	5,144	4,120	..	98,829
XV. Miscellaneous Products ..	1,059,009	959,871	84,182	104,689	57,391	27,064	2,292,206
Total, Classes I. to XV.	74,048,639	52,480,471	12,478,183	16,938,026	6,410,702	4,733,391	167,089,412
XVI. Heat, Light and Power ..	4,9-9,374	2,582,511	784,321	691,209	510,103	559,675	10,057,193
Grand Total ..	78,978,013	55,062,982	13,262,504	17,629,235	6,920,805	5,293,066	177,146,605

(iii) *Totals in each State.*—The following table shows the value of land and buildings in each State for the years 1938-39 and 1940-41 to 1943-44 :—

FACTORIES : VALUE OF LAND AND BUILDINGS.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
	£	£	£	£	£	£	£
1938-39 ..	57,353,625	42,026,245	12,299,089	8,710,700	6,813,653	3,717,102	130,920,414
1940-41 ..	61,886,528	47,092,751	12,594,215	11,480,505	6,802,488	4,237,169	141,093,656
1941-42 ..	65,015,509	50,091,565	13,082,394	16,665,829	7,093,250	4,384,553	156,333,100
1942-43 ..	72,622,902	52,642,052	13,159,149	17,473,537	6,770,121	4,926,193	167,593,947
1943-44 ..	78,978,013	55,062,982	13,262,504	17,620,225	6,920,805	5,203,066	177,146,605

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 ending 1932-33, however, there was a decline of £12 million to £105.8 million, but since that year the value has risen to £177.1 million in 1943-44.

3. *Value of Plant and Machinery.*—(i) *Total for Australia, 1938-39 and 1940-41 to 1943-44.* The following table shows for Australia the approximate value of plant and machinery used in factories in 1938-39 and each of the four years ended 1943-44 :—

FACTORIES : VALUE OF PLANT AND MACHINERY, AUSTRALIA.

Class of Industry.	1938-39.	1940-41.	1941-42.	1942-43.	1943-44.
	£	£	£	£	£
I. Treatment of Non-metalliferous Mine and Quarry Products ..	7,028,382	6,553,067	6,175,931	5,624,798	5,089,274
II. Bricks, Pottery, Glass, etc.	3,144,586	2,978,633	2,975,457	2,580,261	2,246,369
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease	6,754,248	10,872,160	14,856,820	17,083,211	17,411,181
IV. Industrial Metals, Machines, Implements and Conveyances	33,037,801	40,711,422	45,296,023	52,931,958	56,918,202
V. Precious Metals, Jewellery and Plate	197,059	210,133	207,010	200,445	219,266
VI. Textiles and Textile Goods	6,657,416	7,714,174	7,844,986	7,915,814	7,600,447
VII. Skins and Leather	973,181	1,095,653	1,143,210	1,160,754	1,224,852
VIII. Clothing	2,557,388	2,677,323	2,769,587	2,855,529	3,225,678
IX. Food, Drink and Tobacco	32,100,675	33,022,696	32,572,699	31,660,416	31,904,522
X. Woodworking and Basketware	3,907,551	4,230,650	4,388,014	4,299,740	4,486,081
XI. Furniture, Bedding, etc.	727,857	712,922	652,707	602,222	545,199
XII. Paper, Stationery, Printing, Bookbinding, etc.	9,188,227	10,840,730	10,566,786	10,074,519	9,531,486
XIII. Rubber	1,367,859	1,472,249	1,437,977	1,220,467	1,243,448
XIV. Musical Instruments	11,702	15,127	19,861	13,325	14,011
XV. Miscellaneous Products	758,273	886,256	1,222,140	1,384,164	1,547,493
Total. Classes I. to XV.	108,412,205	123,993,225	132,129,208	139,607,623	143,207,419
XVI. Heat, Light and Power	35,249,922	37,363,009	37,050,584	37,357,703	37,785,350
Grand Total ..	143,662,127	161,356,234	169,179,792	176,965,326	180,992,769

In 1929-30 the value of plant and machinery was £127.6 million, declining to £120.2 million during the next four years, but has since risen to the record figure of £181.0 million for 1943-44. The increase of £4.0 million recorded during the latter year was due particularly to the development in the heavy industries included in Class IV. Increases also occurred in Chemicals, Dyes, Explosives, etc., industries in Class III., and in industries included in Class IX.. Food, Drink and Tobacco, as a result of war-time demands on these industries.

(ii) *Totals in each State.* The following table shows the value of plant and machinery in each State during the years 1940-41 to 1943-44 compared with 1938-39. The chief increase during 1943-44 was recorded in Victoria :—

FACTORIES : VALUE OF PLANT AND MACHINERY.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
	£	£	£	£	£	£	£
1938-39 ..	62,692,956	38,626,743	18,095,415	9,749,679	8,095,064	6,402,270	143,662,127
1940-41 ..	68,533,346	44,985,756	18,501,758	14,391,653	7,394,680	7,549,041	161,356,234
1941-42 ..	70,611,613	48,065,805	18,771,893	16,808,122	7,309,560	7,612,799	169,179,792
1942-43 ..	73,121,771	51,963,258	18,793,878	17,848,070	7,105,019	8,133,330	176,965,326
1943-44 ..	73,803,954	55,457,719	17,886,417	18,415,477	7,364,909	8,064,293	180,992,769

(iii) *Value according to Industry, 1943-44.* The following table shows the value of plant and machinery used in factories in each State during 1943-44, classified according to industry :—

FACTORIES : VALUE OF PLANT AND MACHINERY, 1943-44.

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
	£	£	£	£	£	£	£
I. Treatment of Non-metalliferous Mine and Quarry Products ..	2,823,129	1,385,961	245,971	399,920	94,977	139,316	5,089,274
II. Bricks, Pottery, Glass, etc. ..	1,417,827	572,762	57,702	136,489	54,075	7,514	2,246,369
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease ..	4,286,690	6,860,641	185,885	5,072,927	967,754	37,284	17,411,181
IV. Industrial Metals, Machines, Implements and Conveyances ..	29,731,613	15,719,256	2,652,906	5,265,254	1,458,822	2,090,351	56,918,202
V. Precious Metals, Jewellery and Plate ..	68,801	130,253	4,310	10,949	3,747	1,206	219,266
VI. Textiles and Textile Goods ..	2,619,680	4,004,642	126,886	556,401	100,513	192,325	7,600,447
VII. Skins and Leather ..	559,199	412,946	112,002	18,606	92,680	29,419	1,224,852
VIII. Clothing ..	1,197,204	1,441,836	187,333	247,653	123,701	27,951	3,225,678
IX. Food, Drink and Tobacco ..	10,049,927	7,384,147	10,422,646	1,879,656	1,249,751	918,395	31,904,522
X. Woodworking and Basketware ..	1,542,600	1,121,597	748,570	269,034	450,683	353,597	4,486,081
XI. Furniture, Bedding, etc. ..	227,241	143,960	66,575	57,592	32,649	17,182	545,199
XII. Paper, Stationery, Printing, Book-binding, etc. ..	3,649,396	3,226,690	504,767	714,458	236,068	1,200,077	9,531,486
XIII. Rubber ..	497,563	666,692	38,067	22,836	10,763	7,527	1,243,448
XIV. Musical Instruments ..	9,189	3,042	248	1,376	156	..	14,011
XV. Miscellaneous Products ..	654,795	764,451	25,891	36,338	54,918	11,010	1,547,403
Total, Classes I. to XV.	59,334,854	43,838,876	15,379,759	14,689,489	4,931,287	5,033,154	143,207,419
XVI. Heat, Light and Power ..	14,469,100	11,618,843	2,506,658	3,725,988	2,433,622	3,031,139	37,785,350
Grand Total ..	73,803,954	55,457,719	17,886,417	18,415,477	7,364,909	8,064,293	180,992,769

4. **Depreciation of Land and Buildings and Plant and Machinery.**—The following table shows the allowance made for the depreciation of land and buildings and plant and machinery used in connexion with the manufacturing industries in each State during the year 1943-44.

ALLOWANCE FOR DEPRECIATION OF LAND AND BUILDINGS AND PLANT AND MACHINERY, 1943-44.

Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
	£	£	£	£	£	£	£
I. Treatment of Non-metaliferous Mine and Quarry Products ..	500,972	117,838	38,687	14,870	9,742	12,965	695,074
II. Bricks, Pottery, Glass, etc. ..	180,893	60,662	5,575	14,074	6,574	729	268,507
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease ..	538,925	1,016,104	28,830	949,494	61,285	7,471	2,602,109
IV. Industrial Metals, Machines, Implements and Conveyances ..	5,226,739	1,894,692	300,945	587,115	126,762	237,132	8,873,385
V. Precious Metals, Jewellery and Plate ..	6,048	9,799	332	2,186	287	91	18,743
VI. Textiles and Textile Goods ..	407,045	610,685	10,303	98,734	12,458	67,635	1,206,860
VII. Skins and Leather ..	47,472	42,183	16,590	1,185	9,551	3,943	120,924
VIII. Clothing ..	133,488	155,568	13,567	13,528	10,905	2,425	320,481
IX. Food, Drink and Tobacco ..	876,541	793,690	691,627	190,175	128,844	58,973	2,739,850
X. Woodworking and Basketware ..	181,624	108,152	77,856	35,979	41,746	37,978	483,335
XI. Furniture, Bedding, etc. ..	51,680	12,426	8,962	5,305	3,011	1,211	82,595
XII. Paper, Stationery, Printing, Book-binding, etc. ..	403,934	472,723	61,126	66,327	36,678	130,958	1,171,746
XIII. Rubber ..	142,841	163,696	6,076	3,845	1,411	852	318,721
XIV. Musical Instruments ..	1,421	137	8	74	17	..	1,657
XV. Miscellaneous Products ..	85,622	98,935	1,321	3,553	1,712	459	191,602
Total, Classes I. to XV.	8,178,245	5,557,290	1,261,805	1,986,444	450,983	562,822	18,604,589
XVI. Heat, Light and Power ..	1,437,552	205,973	186,205	214,234	84,639	73,661	2,202,264
Grand Total	10,222,797	5,763,263	1,448,010	2,200,678	535,622	636,483	20,806,853

§ 9. Individual Industries.

1. **General.**—The preceding pages 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 in respect of each industry, particular industries are dealt with hereunder which are of special importance by reason of the employment which they provide for labour and capital or other features of special interest. Where there are only one or two establishments of a particular industry in a State, details of activities are not published, but are combined with some other factory group so that operations of individual concerns will not be disclosed.

2. **Cement and Cement Goods.**—(i) *Details for each State, 1943-44.* The manufacture of cement and cement goods is an important industry included in Class I. and details for each State during 1943-44 are given in the following table:—

CEMENT AND CEMENT GOODS, 1943-44.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories ..	30	28	17	15	10	5	105
Number of persons engaged ..	932	837	589	448	250	113	3,169
Value of land and buildings ..	£ 566,336	333,732	142,440	97,195	30,042	111,321	1,281,066
Value of plant and machinery ..	£ 714,472	590,820	174,175	331,248	69,977	70,946	1,951,638
Wages paid ..	£ 281,858	258,728	178,591	138,464	72,997	27,426	958,064
Value of fuel used ..	£ 105,644	127,801	85,625	77,919	40,776	27,247	555,012
Value of materials used ..	£ 553,894	518,457	464,127	203,888	125,305	55,593	1,921,264
Total value of output ..	£ 1,321,204	1,248,076	939,928	491,528	296,269	128,726	4,425,731
Value of production ..	£ 571,666	601,818	390,176	209,721	130,188	45,886	1,949,455

(ii) *Total for Australia, 1938-39 and 1940-41 to 1943-44.* The next table gives particulars for the last four years compared with 1938-39:—

CEMENT AND CEMENT GOODS : AUSTRALIA.

Items.	1938-39.	1940-41.	1941-42.	1942-43.	1943-44.
Number of factories ..	132	146	134	109	105
Number of persons engaged ..	3,932	4,155	4,152	3,434	3,169
Value of land and buildings ..	£ 1,350,175	1,319,560	1,353,719	1,330,684	1,281,066
Value of plant and machinery ..	£ 2,515,814	2,360,901	2,381,841	2,263,035	1,951,638
Wages paid ..	£ 897,426	1,008,113	1,104,129	1,035,426	958,064
Value of fuel used ..	£ 561,578	580,626	627,614	567,206	555,012
Value of materials used ..	£ 1,542,067	1,715,643	1,910,883	1,853,648	1,921,264
Total value of output ..	£ 4,488,891	4,803,432	5,115,996	4,655,584	4,425,731
Value of production ..	£ 2,385,246	2,507,163	2,577,499	2,144,730	1,949,455
Cement, portland grey, produced ..	ton 867,849	860,002	889,834	730,316	692,705
	£ 3,023,707	2,902,923	2,953,591	2,435,237	2,320,325

3. **Chemicals, Drugs and Medicines.**—(i) *Details for each State, 1943-44.* This is an important industry in Class III. and details for each State during 1943-44 are shown in the following table:—

CHEMICALS, DRUGS AND MEDICINES, 1943-44.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories ..	196	87	13	12	13	5	326
Number of persons engaged ..	4,774	3,435	238	896	275	44	9,662
Value of land and buildings ..	£ 2,041,277	995,101	57,328	441,115	73,523	22,660	3,631,004
Value of plant and machinery ..	£ 2,146,185	1,220,014	26,364	702,588	147,963	9,774	4,252,886
Wages paid ..	£ 1,308,023	1,036,290	63,544	245,904	68,930	8,742	2,730,823
Value of fuel used ..	£ 194,901	150,722	6,897	94,299	16,076	848	464,434
Value of materials used ..	£ 4,338,550	3,227,154	203,740	615,210	160,786	21,241	8,575,681
Total value of output ..	£ 9,033,965	6,033,293	367,968	1,260,823	340,121	43,515	17,070,685
Value of production ..	£ 4,500,514	2,655,417	157,331	550,623	154,259	21,426	8,039,570

(ii) *Total for Australia, 1938-39 and 1940-41 to 1943-44.* Details are given in the following table for each of the four years 1940-41 to 1943-44 compared with 1938-39. Considerable development occurred during the war years, much of the production being for war purposes.

CHEMICALS, DRUGS AND MEDICINES : AUSTRALIA.

Items.	1938-39.	1940-41.	1941-42.	1942-43.	1943-44.
Number of factories ..	238	259	278	298	326
Number of persons engaged ..	5,346	6,707	7,571	8,334	9,662
Value of land and buildings ..	£ 1,817,727	2,473,391	2,740,283	3,156,126	3,631,004
Value of plant and machinery ..	£ 1,253,577	2,470,272	2,696,899	3,586,203	4,252,888
Wages paid ..	£ 1,011,906	1,408,919	1,758,404	2,365,229	2,730,823
Value of fuel used ..	£ 121,503	241,680	329,496	424,040	464,434
Value of materials used ..	£ 3,403,680	4,710,868	5,385,296	7,143,051	8,575,681
Total value of output ..	£ 7,351,745	10,026,247	12,408,449	14,978,800	17,079,685
Value of production ..	£ 3,826,562	5,073,699	6,193,657	7,118,709	8,039,570

4. White Lead, Paints and Varnish.—(i) *Details for each State, 1943-44.* The following table shows particulars of this industry for each State during 1943-44 :—

WHITE LEAD, PAINTS AND VARNISH FACTORIES, 1943-44.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories	54	39	5	10	2	1	111
Number of persons engaged ..	1,676	437	56	165	13	3	2,350
Value of land and buildings ..	£ 621,591	171,845	11,326	81,102	(a)	(a)	b 897,777
Value of plant and machinery ..	£ 266,348	87,268	13,050	41,952	(a)	(a)	b 415,552
Wages paid	£ 534,718	127,977	17,156	42,430	(a)	(a)	b 727,843
Value of fuel used	£ 52,631	9,236	1,028	3,069	(a)	(a)	b 66,262
Value of materials used	£ 2,735,522	697,207	163,704	293,478	(a)	(a)	b3,943,679
Total value of output	£ 4,043,479	1,125,554	259,273	434,861	(a)	(a)	b5,931,990
Value of production	£ 1,255,329	419,111	94,541	138,314	(a)	(a)	b1,922,049

(a) Particulars not available for publication.

(b) Includes Western Australia and Tasmania.

(ii) *Total for Australia, 1938-39 and 1940-41 to 1943-44.* The next table gives particulars for the years 1940-41 to 1943-44 compared with 1938-39 :—

WHITE LEAD, PAINTS AND VARNISH FACTORIES : AUSTRALIA.

Items.	1938-39.	1940-41.	1941-42.	1942-43.	1943-44.
Number of factories	102	109	108	110	111
Number of persons engaged ..	2,271	2,468	2,383	2,160	2,350
Value of land and buildings ..	£ 761,345	812,759	802,374	828,790	897,777
Value of plant and machinery ..	£ 324,222	358,447	355,968	368,410	415,552
Wages paid	£ 535,044	597,167	650,201	648,455	727,843
Value of fuel used	£ 44,992	53,940	57,119	58,080	66,262
Value of materials used	£ 2,275,027	2,864,935	3,061,915	3,180,267	3,943,679
Total value of output	£ 3,905,104	4,717,987	4,952,682	4,844,646	5,931,990
Value of production	£ 1,585,085	1,799,112	1,833,648	1,606,299	1,922,049

5. Soap and Candle Factories.—(i) *Details for each State, 1943-44.* The manufacture of these products is frequently carried on in the same factory, so that separate returns cannot be obtained. The following table gives particulars of soap and candle factories in each State for 1943-44 :—

SOAP AND CANDLE FACTORIES, 1943-44.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W.A.	Tas.	Australia.
Number of factories	33	15	8	5	2	2	65
Number of persons engaged ..	1,670	683	327	172	67	19	2,938
Value of land and buildings ..	£ 374,577	191,689	39,232	56,402	(a)	(a)	(b) 686,091
Value of plant and machinery ..	£ 195,082	162,651	19,089	31,556	(a)	(a)	(b) 422,467
Wages paid	£ 465,930	203,226	75,546	43,983	(a)	(a)	(b) 805,919
Value of fuel used	£ 57,245	67,940	6,595	4,770	(a)	(a)	(b) 139,713
Value of materials used	£ 1,591,239	739,904	244,653	113,081	(a)	(a)	b 2,757,710
Total value of output	£ 3,135,574	1,442,045	427,000	181,380	(a)	(a)	b 5,290,607
Value of production	£ 1,487,090	634,201	175,752	63,529	(a)	(a)	b 2,393,184

(a) Particulars not available for publication.

(b) Includes Western Australia and Tasmania.

(ii) *Total for Australia, 1938-39 and 1940-41 to 1943-44.* The next table gives similar particulars for the years 1940-41 to 1943-44 compared with 1938-39 :—

SOAP AND CANDLE FACTORIES : AUSTRALIA.

Items.	1938-39.	1940-41.	1941-42.	1942-43.	1943-44.
Number of factories	65	66	68	66	65
Number of persons engaged ..	2,620	2,914	3,074	3,084	2,938
Value of land and buildings ..	£ 665,546	731,098	696,218	691,066	686,091
Value of plant and machinery ..	£ 576,732	490,993	498,970	461,918	422,467
Wages paid	£ 501,174	605,448	724,737	802,011	805,919
Value of fuel used	£ 76,283	96,283	124,615	147,061	139,713
Value of materials used	£ 1,567,999	1,973,953	2,602,943	2,979,650	2,757,710
Total value of output	£ 3,529,723	4,407,637	5,487,898	6,116,396	5,290,607
Value of production	£ 1,885,441	2,337,401	2,760,340	2,989,685	2,393,184

(iii) *Raw Material Used and Production, 1938-39 and 1940-41 to 1943-44.* The following statement shows the quantities of certain raw materials used and the production in soap and candle factories in Australia for the years 1940-41 to 1943-44 compared with 1938-39 :—

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

Particulars.		1938-39.	1940-41.	1941-42.	1942-43.	1943-44.
Tallow used cwt.		535,511	633,982	835,440	1,053,412	856,031
Alkali used "		229,881	244,594	275,239	233,856	201,992
Coco-nut oil used—refined and unrefined "		138,954	165,720	164,614	86,367	74,915
Soap made "		986,087	1,037,844	1,254,956	1,355,708	966,982
Candles made "		27,459	25,668	39,241	43,788	38,291

The output for the year 1943-44 comprised the following quantities of soap :— household, 561,512 cwt. ; toilet, 256,982 cwt. ; sand, 84,101 cwt. ; soft, 20,014 cwt. ; and woolscouring, 44,373 cwt. This excludes 43,118 cwt. of soap made in establishments not classified as Soap and Candle Factories.

6. **Chemical Fertilizers.**—(i) *Details for each State, 1943-44.* The following table gives particulars of the factories engaged in the manufacture of chemical fertilizers in each State during 1943-44. Details of the consumption, imports and exports of fertilizers will be found in Chapter XX. "Agricultural Production".

CHEMICAL FERTILIZERS, 1943-44.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	6	7	6	6	5	6	36
Number of persons engaged ..	215	721	71	441	339	31	1,818
Value of land and buildings £	112,796	463,850	69,931	251,516	514,929	41,029	1,454,051
Value of plant and machinery £	98,491	676,089	80,451	642,850	727,433	19,187	2,244,501
Wages paid ..	75,244	256,351	23,051	149,205	117,061	11,203	632,115
Value of fuel used ..	£ 9,823	33,251	1,075	25,576	16,120	1,031	86,876
Value of materials used ..	£ 552,008	1,381,739	178,194	594,317	812,696	140,222	3,659,176
Total value of output ..	£ 692,947	1,891,433	225,813	815,820	1,087,721	153,730	4,867,464
Value of production ..	£ 131,116	476,443	46,544	195,927	258,905	12,477	1,121,412

(ii) *Total for Australia, 1938-39 and 1940-41 to 1943-44.* The development of this industry since 1938-39 is set out hereunder :—

CHEMICAL FERTILIZERS : AUSTRALIA.

Items.	1938-39.	1940-41.	1941-42.	1942-43.	1943-44.
Number of factories	36	34	35	34	36
Number of persons engaged	2,540	2,312	2,136	1,667	1,818
Value of land and buildings	£ 1,449,157	1,513,639	1,538,321	1,464,411	1,454,051
Value of plant and machinery	£ 2,352,819	2,352,793	2,295,124	2,176,426	2,244,501
Wages paid	£ 601,477	615,085	639,791	539,955	632,115
Value of fuel used	£ 113,749	107,234	114,868	75,104	86,876
Value of materials used	£ 3,231,053	3,727,369	3,821,267	2,945,694	3,659,176
Total value of output	£ 4,944,800	5,327,996	5,219,576	3,923,806	4,867,464
Value of production	£ 1,599,998	1,493,393	1,283,441	903,008	1,121,412

7. **Smelting, Converting, Refining and Rolling of Iron and Steel.**—(i) *Details for each State, 1943-44.* The extension of the classification referred to in § 1 par. 2 p. 908 has made possible the separate publication of details for the group of industries comprised herein. This grouping includes ironworks, foundries, the making of iron safes and doors, steel castings, iron bedsteads, sash weights, steel window frames and sashes, nuts and bolts, springs, horse-shoes, screws, lifts, tools, brickmakers' implements and oxy-acetylene welding. Particulars for the year 1943-44 are as follows:—

SMELTING, CONVERTING, REFINING AND ROLLING OF IRON AND STEEL, 1943-44.

Items.	N.S.W.	Victoria.	Q'land. (a)	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	184	216	..	39	1	..	440
Number of persons engaged ..	21,629	4,945	..	3,874	175	..	30,623
Value of land and buildings ..	£ 3,268,049	712,800	..	(b)	(b)	..	£ 4,702,806
Value of plant and machinery ..	£ 6,922,868	702,904	..	(b)	(b)	..	£ 9,170,371
Wages paid ..	£ 7,671,640	1,636,130	..	(b)	(b)	..	£ 10,408,673
Value of fuel used ..	£ 3,425,673	142,233	..	(b)	(b)	..	£ 3,731,000
Value of materials used ..	£ 31,989,510	1,651,994	..	(b)	(b)	..	£ 35,662,743
Total value of output ..	£ 49,051,049	4,233,685	..	(b)	(b)	..	£ 56,993,186
Value of production ..	£ 13,635,866	2,439,458	..	(b)	(b)	..	£ 17,599,443

(a) Now included with Engineering.

(b) Particulars not available for publication.

(c) Includes South Australia and Western Australia.

(ii) *Total for Australia, 1938-39 and 1940-41 to 1943-44.* The rapid development of this industry during the war years is illustrated in the following table:—

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

Items.	1938-39.	1940-41.	1941-42.	1942-43.	1943-44.
Number of factories ..	363	371	387	407	440
Number of persons engaged ..	19,352	25,800	31,437	32,607	30,623
Value of land and buildings ..	£ 3,532,471	4,246,864	4,595,620	4,578,206	4,702,806
Value of plant and machinery ..	£ 8,611,122	10,223,248	10,556,961	9,942,087	9,170,371
Wages paid ..	£ 4,740,444	7,005,014	9,749,026	10,968,634	10,408,673
Value of fuel used ..	£ 2,318,248	3,082,167	3,744,235	3,910,628	3,731,000
Value of materials used ..	£ 16,502,532	24,816,151	32,921,370	36,697,223	35,662,743
Total value of output ..	£ 29,075,039	42,604,932	53,062,902	58,582,945	56,993,186
Value of production ..	£ 10,254,259	14,706,614	16,397,297	17,975,094	17,599,443
Production of—					
Pig Iron ..	tons 1,104,605	1,475,707	1,557,641	1,399,306	1,305,357
Ingot steel ..	tons 1,171,787	1,647,108	1,699,793	1,632,825	1,527,564

8. **Engineering Works.**—(i) *Details for each State, 1943-44.* Formerly, it was impossible to show separate details for the engineering industry owing to the different classifications among the States, but since 1926-27 substantial uniformity has been attained.

The classification of establishments included in the Industrial Metal Group still presents some difficulty. This arises from the fact that some establishments are engaged in two or more distinct types of industrial activity. In such cases factory proprietors are asked to furnish separate returns for each activity, but this is not always practicable and consequently there is no alternative but to classify such factories according to their

predominant activity. This difficulty is most acute in engineering works, but the following figures may be accepted as reasonably representative of the engineering industry, excluding the marine and electrical branches :—

ENGINEERING WORKS, (a) 1943-44.

Items.	N.S.W.	Victoria.	Q'land. (b)	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	689	650	116	117	133	37	1,742
Number of persons engaged ..	24,822	24,774	4,043	4,639	2,964	663	61,905
Value of land and buildings £	3,530,901	3,663,140	440,865	383,105	417,359	105,379	8,540,749
Value of plant and machinery ..	£ 3,065,000	4,778,920	394,251	561,908	342,564	113,312	9,255,964
Wages paid ..	£ 8,172,974	3,072,561	1,173,885	1,276,674	965,138	203,625	19,864,857
Value of fuel used ..	£ 334,324	364,682	61,518	60,385	55,440	9,521	885,870
Value of materials used ..	£ 9,856,213	10,093,176	1,112,513	1,162,818	806,431	107,865	23,139,016
Total value of output ..	£ 22,625,723	22,881,200	2,911,536	2,945,283	2,167,775	389,469	53,920,986
Value of production ..	£ 12,435,186	12,423,342	1,737,505	1,722,080	1,305,904	272,083	29,896,100

(a) Excludes marine and electrical.
iron and steel.

(b) Includes smelting, converting, refining and rolling of

In addition to engineering works which supply ordinary requirements, many establishments manufacture special classes of machinery and implements. The manufacture of mining, smelting and textile machinery and apparatus forms an important section of this industry.

(ii) *Total for Australia, 1938-39 and 1940-41 to 1943-44.* The heavy demands brought about by the war, aggravated by difficulties in obtaining some imports during the war years, resulted in a remarkable development in this industry, as shown in the table set out hereunder :—

ENGINEERING WORKS: AUSTRALIA.

Items.	1938-39.	1940-41.	1941-42.	1942-43.	1943-44.
Number of factories ..	1,099	1,210	1,372	1,563	1,742
Number of persons engaged ..	26,222	34,690	47,818	59,708	61,905
Value of land and buildings ..	£ 3,894,051	4,760,956	6,084,788	7,457,040	8,540,749
Value of plant and machinery ..	£ 3,646,494	4,468,022	5,492,563	7,202,359	9,255,964
Wages paid ..	£ 5,741,985	8,637,631	14,243,584	19,207,546	19,864,857
Value of fuel used ..	£ 291,409	417,304	624,314	871,157	885,870
Value of materials used ..	£ 7,339,564	11,235,170	15,831,976	20,773,100	23,139,016
Total value of output ..	£ 16,879,645	24,009,683	38,541,353	50,145,454	53,920,986
Value of production ..	£ 9,248,672	13,257,209	22,085,063	28,501,197	29,896,100

9. *Extracting and Refining of Non-ferrous Metals and Alloys.*—(i) *Details for each State, 1943-44.* The following table gives particulars of metal extraction and ore reduction works, other than those connected with iron and steel. The returns do not include particulars of plants used in mines :—

EXTRACTING AND REFINING OF NON-FERROUS METALS AND ALLOYS, 1943-44.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.A. (a)	Tas.	Australia.
Number of factories ..	14	12	11	2	..	4	43
Number of persons engaged ..	1,666	127	867	1,338	..	2,323	6,321
Value of land and buildings ..	£ 309,956	(b)	294,829	(b)	..	582,979	c 1,358,722
Value of plant and machinery ..	£ 1,210,469	(b)	854,657	(b)	..	1,239,732	c 3,930,910
Wages paid ..	£ 623,972	(b)	283,046	(b)	..	817,011	c 2,291,782
Value of fuel used ..	£ 323,392	(b)	75,993	(b)	..	262,311	c 788,797
Value of materials used ..	£ 9,001,312	(b)	1,149,543	(b)	..	2,135,892	c 17,755,594
Total value of output ..	£ 11,143,117	(b)	1,935,049	(b)	..	4,101,917	c 23,513,675
Value of production ..	£ 1,818,413	(b)	713,113	(b)	..	1,703,714	c 4,969,284

(a) In Western Australia the majority of the plants are worked on the mines, and are therefore not included. (b) Particulars not available for publication. (c) Includes particulars for States marked (b).

(ii) *Total for Australia, 1938-39 and 1940-41 to 1943-44.* The development of this industry since 1938-39 is set out hereunder:—

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

Items.	1938-39.	1940-41.	1941-42.	1942-43.	1943-44.
Number of factories	42	42	42	41	43
Number of persons engaged	5,532	5,984	6,564	6,632	6,321
Value of land and buildings	1,177,348	1,305,653	1,357,000	1,374,230	1,358,722
Value of plant and machinery	3,525,659	3,918,586	4,053,362	4,080,282	3,930,910
Wages paid	1,613,107	1,724,855	2,107,669	2,276,458	2,291,782
Value of fuel used	597,951	681,755	774,789	849,979	788,797
Value of materials used	16,844,310	20,012,948	20,479,585	17,669,490	17,755,594
Total value of output	21,333,872	25,605,480	26,501,156	23,661,486	23,513,675
Value of production	3,891,611	4,910,786	5,246,782	5,142,017	4,969,284

10. **Electrical Installations, Cables and Apparatus.**—(i) *Details for each State, 1943-44.* The following table shows particulars of this industry for each State during 1943-44:—

ELECTRICAL INSTALLATIONS, CABLES AND APPARATUS, 1943-44.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories	206	142	16	32	26	9	431
Number of persons engaged	13,144	5,655	185	1,280	318	77	20,659
Value of land and buildings £	1,703,856	771,870	34,731	120,691	65,613	17,238	2,713,999
Value of plant and machinery £	1,080,328	534,063	7,680	80,330	12,122	9,522	1,724,045
Wages paid	£ 3,606,184	1,534,921	46,212	341,977	72,555	18,933	5,710,782
Value of fuel used	£ 127,765	46,065	882	14,570	2,523	837	193,542
Value of materials used	£ 4,988,925	2,281,306	61,888	362,945	79,309	30,202	7,804,575
Total value of output	£ 10,521,030	4,589,621	148,939	817,477	198,144	71,498	16,346,709
Value of production	£ 5,404,340	2,261,350	86,169	439,962	116,312	40,459	8,348,592

(ii) *Total for Australia, 1938-39 and 1940-41 to 1943-44.* The increased output of electrical energy in Australia within recent years, referred to in par. 39 below, caused a corresponding demand for electrical equipment. As imports declined heavily during the depression years the local industry was called upon to furnish the bulk of the new needs and consequently the development in the manufacture of electrical goods in Australia has been considerable.

ELECTRICAL INSTALLATIONS, CABLES AND APPARATUS: AUSTRALIA.

Items.	1938-39.	1940-41.	1941-42.	1942-43.	1943-44.
Number of factories	360	361	383	401	431
Number of persons engaged	10,666	13,218	15,303	19,442	20,559
Value of land and buildings	£ 1,627,183	1,831,807	2,090,314	2,442,968	2,713,999
Value of plant and machinery	£ 896,553	1,003,036	1,278,361	1,600,093	1,724,045
Wages paid	£ 2,031,098	2,827,843	3,827,158	5,280,102	5,710,782
Value of fuel used	£ 104,594	122,795	151,698	186,983	193,542
Value of materials used	£ 3,195,032	4,310,587	5,394,238	7,788,397	7,804,575
Total value of output	£ 6,954,498	8,972,810	11,597,661	15,875,437	16,346,709
Value of production	£ 3,654,872	4,539,428	5,961,725	7,900,057	8,348,592

11. **Railway and Tramway Workshops.**—(i) *Details for each State, 1943-44.* The railway and tramway workshops which form an important item in Class IV. are chiefly State-owned institutions and their development is a reflection of the growth of the railway

and tramway systems of Australia. The following table includes, in addition, municipal establishments for manufacturing and repairing rolling stock. Private institutions numbering 9 in 1943-44 have been excluded :—

TRAMCARS, RAILWAY ROLLING STOCK AND CARRIAGES, ETC.(a), 1943-44.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	36	25	11	15	22	7	116
Number of persons engaged ..	14,119	8,781	5,198	7,288	2,780	889	39,058
Value of land and buildings £	3,181,338	1,495,896	563,723	1,050,943	515,617	94,747	6,902,264
Value of plant and machinery ..	£ 2,692,238	1,166,077	443,848	915,714	436,952	52,979	5,707,808
Wages paid ..	£ 4,872,735	2,869,230	2,093,020	2,362,096	874,085	336,765	13,407,931
Value of fuel used ..	£ 152,291	74,105	48,611	113,166	46,796	19,161	454,130
Value of materials used ..	£ 3,419,000	1,624,842	1,305,467	1,669,450	520,167	51,277	8,590,203
Total value of output ..	£ 9,287,869	5,008,368	3,314,846	4,560,185	1,828,366	447,923	24,947,557
Value of production ..	£ 5,716,578	3,303,421	2,460,768	2,777,569	1,261,403	377,485	15,903,224

(a) Government and Municipal only.

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

(ii) *Total for Australia, 1938-39 and 1940-41 to 1943-44.* The following table shows the development of railway and tramway workshops in Australia since 1938-39 :—

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

Items.	1938-39.	1940-41.	1941-42.	1942-43.	1943-44.
Number of factories ..	117	115	114	114	116
Number of persons engaged ..	27,310	30,178	35,020	38,721	39,058
Value of land and buildings ..	£ 6,736,924	6,619,976	6,682,491	6,765,186	6,902,264
Value of plant and machinery ..	£ 5,390,179	5,476,446	5,519,669	5,684,696	5,707,808
Wages paid ..	£ 6,720,990	8,014,441	10,936,517	12,943,437	13,407,931
Value of fuel used ..	£ 226,108	281,726	367,451	451,527	454,130
Value of materials used ..	£ 4,976,353	5,116,944	6,774,775	7,731,445	8,590,203
Total value of output ..	£ 13,223,114	14,867,940	20,086,070	23,490,587	24,947,557
Value of production ..	£ 8,020,653	9,469,270	12,943,844	15,307,615	15,903,224

(a) Government and Municipal only.

12. **Motor Vehicles and Cycles.**—The industries catering for the motor trade are included in Class IV. "Industrial Metals, Machines, Implements and Conveyances" Returns in regard to assembling and repairing are shown hereunder for 1943-44 :—

ASSEMBLING AND REPAIRING OF MOTOR VEHICLES AND CYCLES, 1943-44.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	1,110	891	287	174	229	110	2,801
Number of persons engaged ..	8,133	7,181	2,872	1,750	1,331	585	21,852
Value of land and buildings £	2,627,092	1,885,130	500,005	490,320	408,414	235,556	6,146,517
Value of plant and machinery ..	£ 606,780	427,025	129,021	193,907	114,128	49,238	1,510,809
Wages paid ..	£ 2,028,279	2,022,513	724,867	415,932	335,562	109,533	5,633,716
Value of fuel used ..	£ 95,898	79,560	28,116	18,001	18,257	3,815	243,647
Value of materials used ..	£ 2,351,124	2,379,928	701,560	404,068	378,454	97,284	6,312,418
Total value of output ..	£ 5,836,028	5,446,386	1,826,747	1,065,549	962,396	293,306	15,230,412
Value of production ..	£ 3,189,006	2,986,898	1,097,071	643,480	565,685	192,207	8,674,347

Particulars in regard to motor body building for 1943-44 are as follows:—

MOTOR BODY BUILDING, 1943-44.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas. (a)	Australia.
Number of factories ..	54	72	30	14	11	17	198
Number of persons engaged ..	982	4,200	439	7,707	180	113	13,621
Value of land and buildings £	251,298	704,469	66,737	428,428	48,881	46,385	1,546,198
Value of plant and machinery £	68,725	348,395	35,674	644,556	12,844	2,979	1,113,173
Wages paid ..	£ 296,435	1,482,599	126,038	2,401,055	47,528	21,844	4,375,499
Value of fuel used ..	£ 8,409	34,180	3,660	61,852	2,254	447	110,802
Value of materials used ..	£ 582,658	2,222,662	141,382	1,445,188	75,939	19,046	4,486,875
Total value of output ..	£ 1,096,226	4,471,442	346,651	4,370,304	146,951	57,482	10,108,056
Value of production ..	£ 505,159	2,214,600	201,609	2,872,264	68,758	37,989	5,900,379

(a) Includes horse-drawn vehicles.

The output of motor bodies together with the number imported into Australia for 1931-32, 1938-39 and the years 1940-41 to 1943-44 are shown in the next table:—

MOTOR BODIES : PRODUCTION AND IMPORTS, AUSTRALIA.

Items.	1931-32.	1938-39.	1940-41.	1941-42.	1942-43.	1943-44.
Motor Bodies—						
Number made .. No.	6,323	79,436	49,130	62,731	44,286	29,309
Value .. £	450,510	6,421,142	3,337,346	4,321,988	4,652,771	2,582,912
Number imported .. No.	61	532	50	16	270	694
Value .. £	7,360	56,641	4,057	1,805	57,010	52,834

13. **Agricultural Implement Works.**—(i) *General.* The manufacture of agricultural implements is of particular interest, owing to the extensive agricultural activities and to the fact that it was one of the first to which it was sought to apply the so-called "New Protection". The articles manufactured include a wide range of agricultural implements for tillage, seeding and planting and the harvesting of crops. Other farm machinery made includes oil engines, windmills, chaff-cutters and machinery used in the dairying industry.

(ii) *Details for States, 1943-44.* The following table gives details respecting agricultural implement works in each State for 1943-44:—

AGRICULTURAL IMPLEMENT WORKS, 1943-44.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	43	55	9	32	6	..	145
Number of persons engaged ..	1,849	4,401	1,405	1,432	91	..	9,178
Value of land and buildings ..	£ 201,300	578,798	62,378	161,242	42,984	..	1,046,702
Value of plant and machinery ..	£ 111,540	698,962	122,916	185,322	2,886	..	1,121,626
Wages paid ..	£ 576,607	1,472,170	402,870	337,514	32,807	..	2,821,968
Value of fuel used ..	£ 21,292	132,484	11,935	32,408	561	..	198,680
Value of materials used ..	£ 688,382	1,398,053	320,069	403,240	12,710	..	2,822,460
Total value of output ..	£ 1,491,731	3,435,008	813,543	810,615	53,505	..	6,604,402
Value of production ..	£ 782,057	1,904,471	481,539	374,961	40,234	..	3,583,262

(iii) *Total for Australia, 1938-39 and 1940-41 to 1943-44.* Following the mobilization of man-power in Australia on Japan's entry into the war in 1941, the area under crops declined by about 20 per cent. and the output of agricultural implements was materially reduced. Later, however, in order to satisfy the need for increased output of food for Services, civilians and exports, it was necessary to divert agricultural implement establishments from production of war material to their normal production

of agricultural implements with the result that a rise in the production of the latter commenced in 1942-43 and continued during 1943-44. Details for each of the last four years compared with 1938-39 are as follows :—

AGRICULTURAL IMPLEMENT WORKS : AUSTRALIA.

Items.	1938-39.	1940-41.	1941-42.	1942-43.	1943-44.
Number of factories	161	161	161	144	145
Number of persons engaged	6,563	7,320	8,934	9,457	9,178
Value of land and buildings	£ 996,949	£ 1,042,277	£ 1,025,966	£ 1,037,513	£ 1,046,702
Value of plant and machinery	£ 910,520	£ 981,957	£ 990,611	£ 1,093,853	£ 1,121,626
Wages paid	£ 1,373,213	£ 1,778,465	£ 2,589,138	£ 2,954,294	£ 2,821,968
Value of fuel used	£ 81,736	£ 133,060	£ 194,278	£ 215,379	£ 198,680
Value of materials used	£ 1,485,018	£ 1,809,800	£ 2,976,645	£ 2,762,748	£ 2,822,460
Total value of output	£ 3,403,091	£ 4,300,340	£ 6,425,617	£ 6,727,818	£ 6,604,402
Value of production	£ 1,836,337	£ 2,357,480	£ 3,254,694	£ 3,749,691	£ 3,583,262

14. **Wireless 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, almost entirely, to New South Wales and Victoria. The number of broadcast listeners' licences increased from 331,128 in 1930-31 to 1,454,302 in 1943-44, 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.

WIRELESS APPARATUS : AUSTRALIA.

Items.	1938-39.	1940-41.	1941-42.	1942-43.	1943-44.
Number of factories	72	77	74	73	85
Number of persons engaged	4,828	6,165	8,429	9,554	11,020
Value of land and buildings	£ 557,953	£ 573,171	£ 661,706	£ 754,977	£ 895,642
Value of plant and machinery	£ 305,468	£ 335,735	£ 415,736	£ 544,023	£ 613,088
Wages paid	£ 754,302	£ 1,121,252	£ 1,977,294	£ 2,429,430	£ 2,959,291
Value of fuel used	£ 23,525	£ 33,473	£ 44,623	£ 58,517	£ 68,553
Value of materials used	£ 1,355,683	£ 1,907,840	£ 2,680,753	£ 2,944,653	£ 3,379,511
Total value of output	£ 2,502,338	£ 3,566,280	£ 5,323,681	£ 6,180,276	£ 7,190,028
Value of production	£ 1,123,130	£ 1,624,967	£ 2,598,305	£ 3,177,106	£ 3,741,964

The number of domestic receiving sets assembled in 1943-44 was 10,615 and the number of domestic chassis made was 17,621 compared with 163,821 and 123,655 respectively in 1938-39.

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

(ii) *Ginning.* The ginning and marketing of cotton is controlled by the Queensland Cotton Board. The Board operates ginneries and processes by-products. The production of raw cotton is insufficient for local factory requirements and is supplemented by imports from overseas, chiefly from India 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 is given in the following table for the four years ended 1943-44 in comparison with 1938-39.

COTTON SPINNING AND WEAVING : AUSTRALIA.

Items.	1938-39.	1940-41.	1941-42.	1942-43.	1943-44.
Number of factories	33	49	65	69	70
Number of persons engaged	3,589	6,184	7,245	7,868	7,908
Value of land and buildings	£ 703,790	1,081,586	1,311,941	1,396,304	1,427,401
Value of plant and machinery	£ 735,529	1,733,441	1,981,101	2,177,698	2,080,785
Wages paid	£ 493,109	1,032,809	1,391,800	1,655,233	1,768,268
Value of fuel used	£ 50,011	83,828	122,765	133,138	142,534
Value of materials used	£ 1,357,280	3,218,359	3,730,144	4,547,556	5,375,438
Total value of output	£ 2,385,990	5,303,018	6,401,011	7,601,120	8,930,324
Value of production	£ 978,699	1,992,156	2,548,102	3,010,426	3,412,352

16. Woollen and Tweed Mills.—(i) *Details for each State, 1943-44.* The manufacture of woollens and tweeds was established at an early period in Australian history and was under Government control, the first record in New South Wales dating back to 1801, when a few blankets were made by convicts, while manufacture in Victoria dates from 1867. The following table gives particulars for 1943-44 :—

WOOLLEN AND TWEED (INCLUDING WOOLSCOURING) MILLS, 1943-44.

Items.	N.S.W. (a)	Victoria.	Q'land. (a)	S. Aust. (b)	W.A. (a)	Tas.	Australia.
Number of factories	35	64	3	9	1	2,400	116
Number of persons engaged	8,165	11,834	818	1,478	163	219,251	24,858
Value of land and buildings	£ 925,017	1,517,095	(c)	138,278	(c)	139,857	d 2,867,297
Value of plant and machinery	£ 1,022,098	1,468,274	(c)	186,290	(c)	536,390	d 2,995,835
Wages paid	£ 1,876,402	2,912,626	(c)	404,314	(c)	40,647	d 5,896,320
Value of fuel used	£ 168,179	363,873	(c)	66,911	(c)	1,393,580	d 658,800
Value of materials used	£ 4,763,430	7,646,800	(c)	1,328,583	(c)	2,443,470	d 15,455,106
Total value of output	£ 7,891,709	12,534,481	(c)	1,977,594	(c)	1,009,243	d 25,433,289
Value of production	£ 2,960,100	4,526,808	(c)	582,100	(c)		d 9,319,393

(a) Excludes Woolscouring. (b) Includes Fellmongery. (c) Particulars not available for publication. (d) Includes Queensland and Western Australia.

(ii) *Total for Australia, 1938-39 and 1940-41 to 1943-44.* The extent of the woollen and tweed milling industry in Australia in the years 1940-41 to 1943-44 compared with 1938-39 is shown in the following table. The production consists chiefly of tweed cloths, flannels, rugs, blankets and yarn, all of which have acquired a reputation for purity and durability. Detailed particulars for the several States are not available for publication.

WOOLLEN AND TWEED MILLS (INCLUDING WOOLSCOURING) : AUSTRALIA.(a)

Items.	1938-39.	1940-41.	1941-42.	1942-43.	1943-44.
Number of factories	90	102	111	118	116
Number of persons engaged	19,608	25,031	26,362	26,436	24,858
Value of land and buildings	£ 2,380,009	2,606,603	2,791,914	2,816,658	2,867,297
Value of plant and machinery	£ 3,360,517	3,381,505	3,279,601	3,178,704	2,995,835
Wages paid	£ 2,887,907	4,402,091	5,416,150	5,967,770	5,896,320
Value of fuel used	£ 392,537	537,491	604,515	655,981	658,800
Value of materials used	£ 7,331,117	11,771,911	15,408,207	16,604,441	15,455,106
Total value of output	£ 12,514,610	21,060,244	25,467,073	27,335,095	25,433,289
Value of production	£ 4,790,956	8,750,842	9,454,351	10,075,273	9,319,383
Woollen cloth and tweed sq. yd.	8,336,226	14,274,305	13,700,474	14,516,085	13,055,199
Worsted cloth	17,986,091	19,032,519	20,867,989	23,767,429	19,944,042
Serze	792,314	1,362,553	2,380,721	1,462,887	1,840,316
Flannel—					
For outer clothing	2,143,835	1,316,726	665,682	1,276,814	2,611,476
For underwear (pure)	1,557,373	3,465,077	4,757,520	3,813,354	2,704,382
For underwear (mixtures)	813,530	706,010	557,924	552,144	218,431
Blankets pair	573,795	1,146,027	1,831,515	1,768,557	1,687,729

(a) Excludes Woolscouring in New South Wales, Queensland and Western Australia but includes Fellmongery in South Australia.

17. **Hosiery and Other Knitted Goods.**—(i) *Details for each State, 1943-44.* In addition to the woollen and tweed factories, there were 341 hosiery and knitting mills operating in Australia during 1943-44. The total number of persons engaged in these establishments was 16,017 of whom 12,547 were females. Details for each State are shown in the following table:—

HOSIERY AND OTHER KNITTED GOODS, 1943-44.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories	95	231	1	6	4	4	341
Number of persons engaged ..	5,030	10,378	280	83	150	96	16,017
Value of land and buildings £	771,679	1,417,746	(a)	(a)	14,082	7,650	b 2,243,181
Value of plant and machinery ..	426,946	911,304	(a)	(a)	7,719	14,273	b 1,367,754
Wages paid	980,884	2,117,266	(a)	(a)	20,747	14,273	b 3,187,545
Value of fuel used	43,211	119,962	(a)	(a)	1,543	1,106	b 168,218
Value of materials used	2,871,873	4,735,997	(a)	(a)	73,991	53,003	b 7,873,375
Total value of output	4,778,157	8,576,213	(a)	(a)	114,439	73,533	b 13,771,177
Value of production	1,863,073	3,720,254	(a)	(a)	39,805	19,334	b 5,729,584

(a) Particulars not available for publication.

(b) Includes Queensland and South Australia.

(ii) *Total for Australia, 1938-39 and 1940-41 to 1943-44.* Comparative statistics for 1938-39 and the years 1940-41 to 1943-44 are shown in the following table:—

HOSIERY AND OTHER KNITTED GOODS : AUSTRALIA.

Items.	1938-39.	1940-41.	1941-42.	1942-43.	1943-44.
Number of factories	313	328	328	326	341
Number of persons engaged ..	18,159	19,408	17,711	15,654	16,017
Value of land and buildings ..	£ 1,962,336	2,007,062	2,066,723	2,172,979	2,243,181
Value of plant and machinery ..	£ 1,930,564	1,629,917	1,576,301	1,455,583	1,367,754
Wages paid	£ 2,331,536	2,889,267	3,049,360	2,930,842	3,187,545
Value of fuel used	£ 133,154	151,146	151,716	164,534	168,218
Value of materials used	£ 4,284,216	6,986,405	7,921,884	7,599,088	7,873,375
Total value of output	£ 8,226,468	12,188,378	13,838,471	13,095,997	13,771,177
Value of production	£ 3,809,098	5,050,827	5,764,871	5,332,375	5,729,584

(iii) *Raw Materials used and Production, 1943-44.* The main raw materials consumed in establishments manufacturing hosiery and other knitted goods during 1943-44 consisted of woollen yarn, 12,319,678 lb.; cotton yarn, 7,417,510 lb.; silk yarn, 2,250 lb.; and artificial silk yarn, 5,340,737 lb. Production comprised 35,424,084 garments, valued at £7,208,768; 1,323,808 dozen pairs of stockings, valued at £2,150,567; and 2,104,746 dozen pairs of socks, valued at £2,195,956.

18. **Tanning, Currying and Leather Dressing.**—(i) *Details for each State, 1943-44.* 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, 1943-44.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W.A.	Tas.	Aust.
Number of factories	73	40	14	8	5	2	142
Number of persons engaged ..	1,909	2,040	419	113	135	15	4,631
Value of land and buildings ..	£ 402,772	408,453	41,198	(a)	39,254	(a)	b 919,016
Value of plant and machinery ..	£ 240,927	213,672	49,868	(a)	27,086	(a)	b 543,796
Wages paid	£ 605,304	683,782	126,537	(a)	42,346	(a)	b 1,495,549
Value of fuel used	£ 52,573	67,529	9,257	(a)	3,257	(a)	b 135,568
Value of materials used	£ 2,217,021	2,013,706	505,805	(a)	160,441	(a)	b 5,007,149
Total value of output	£ 3,283,040	3,119,392	747,436	(a)	244,642	(a)	b 7,569,327
Value of production	£ 1,013,446	1,038,157	232,374	(a)	86,944	(a)	b 2,426,610

(a) Particulars not available for publication.

(b) Includes South Australia and Tasmania.

(ii) *Total for Australia, 1938-39 and 1940-41 to 1943-44.* The development of the tanning industry during the years stated is shown in the following table :—

TANNING, CURRYING AND LEATHER DRESSING : AUSTRALIA.

Items.	1938-39.	1940-41.	1941-42.	1942-43.	1943-44.
Number of factories	132	137	139	138	142
Number of persons engaged	4,373	4,473	4,844	4,647	4,631
Value of land and buildings	£ 813,713	865,759	894,260	906,896	919,016
Value of plant and machinery	£ 523,538	544,890	548,288	531,661	543,796
Wages paid	£ 919,781	1,030,495	1,347,934	1,453,026	1,495,549
Value of fuel used	£ 87,670	100,944	116,914	124,261	135,568
Value of materials used	£ 2,983,041	4,043,283	4,969,830	5,001,880	5,007,149
Total value of output	£ 4,592,642	5,942,320	7,405,634	7,461,144	7,560,327
Value of production	£ 1,521,931	1,798,091	2,318,890	2,335,003	2,426,610

(iii) *Raw Material Used and Production, 1943-44.* The quantities of raw material used and leather produced in tanneries in each State are shown in the following table. Some leather is also produced in works other than tanneries, but this is excluded :—

TANNERIES : RAW MATERIAL USED AND PRODUCTION, 1943-44.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia. (b)
Hides No.	842,934	1,000,017	261,198	(a)	87,465	(a)	2,254,189
Skins—							
Calf	623,061	557,206	133,702	1,600	572	..	1,316,144
Goat	722,518	96,240	(a)	(a)	..	..	819,079
Sheep	1,626,478	827,856	(a)	..	..	(a)	2,757,596
Marsupial	18,499	47,676	35,305	2,540	1,443	..	105,463
Pelts treated	2,044,266	383,617	..	..	1,000	..	2,428,883
Bark used—							
Wattle tons	4,185	4,517	1,427	650	(a)	(a)	11,000
Other	408	1,511	(a)	..	..	..	2,423
Tanning extract used lb.	12,720,484	7,221,745	2,897,758	(a)	2,033,880	(a)	25,029,507
Leather made—							
Sole and Belting	12,780,088	14,217,619	5,991,801	(a)	2,106,168	(a)	36,062,471
Harness	1,013,641	723,233	559,880	91,389	45,122	..	2,433,265
Upholstery sq. ft.	(a)	(a)	..	..	..	..	5,482,651
Dressed and Upper from Hides—							
Sold by Measurement—							
Patent sq. ft.	274,019	1,309,891	..	..	..	..	1,583,910
All Other	10,166,389	16,285,373	(a)	1,175,604	658,663	(a)	30,338,589
Sold by Weight—							
Waxed Kip lb.	(a)	50,380	(a)	29,423	2,388	(a)	111,325
All Other	838,981	856,956	(a)	37,790	(a)	..	2,921,905
Dressed from skins—							
Calf sq. ft.	6,336,781	3,841,579	1,125,458	..	2,434	..	11,306,252
Goat	3,298,441	(a)	(a)	..	..	..	3,735,343
Sheep	12,190,510	(a)	(a)	..	..	..	15,526,268
Marsupial	73,096	248,844	166,041	20,000	6,901	..	514,882

(a) Not available for publication. (b) Includes particulars for States marked (a).

19. *Tailoring and Ready-made Clothing Factories.*—(i) *Details for each State, 1943-44.* The importance of this industry in each State is shown in the following table :—

TAILORING AND READY-MADE CLOTHING FACTORIES, 1943-44.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories	520	348	106	100	66	20	1,160
Number of persons engaged	12,621	7,581	2,672	1,720	854	424	25,872
Value of land and buildings	£ 1,847,410	934,014	240,704	234,985	131,422	64,744	3,453,279
Value of plant and machinery	£ 281,071	198,222	40,748	24,475	13,964	9,320	567,800
Wages paid	£ 2,249,674	1,429,015	415,026	254,928	129,125	65,259	4,543,027
Value of fuel used	£ 44,817	37,495	7,418	5,738	2,565	882	98,915
Value of materials used	£ 4,329,794	3,323,293	690,604	233,892	199,557	65,924	8,843,064
Total value of output	£ 7,986,246	5,613,438	1,367,746	640,321	420,219	161,557	16,189,527
Value of production	£ 3,611,635	2,252,650	669,724	400,691	218,097	94,751	7,247,548

(ii) *Total for Australia, 1938-39 and 1940-41 to 1943-44.* Details for the four years 1940-41 to 1943-44 compared with 1938-39 are as follows :—

TAILORING AND READY-MADE CLOTHING FACTORIES : AUSTRALIA.

Items.	1938-39.	1940-41.	1941-42.	1942-43.	1943-44.
Number of factories	1,177	1,154	1,149	1,101	1,160
Number of persons engaged	26,199	28,205	28,378	26,043	25,872
Value of land and buildings	£ 3,175,748	£ 3,264,561	£ 3,364,458	£ 3,269,725	£ 3,453,279
Value of plant and machinery	£ 355,503	£ 420,907	£ 468,053	£ 506,188	£ 567,600
Wages paid	£ 3,168,472	£ 3,730,938	£ 4,325,388	£ 4,280,349	£ 4,543,027
Value of fuel used	£ 72,434	£ 81,121	£ 87,804	£ 90,722	£ 98,915
Value of materials used	£ 4,946,519	£ 6,834,626	£ 8,804,550	£ 9,207,864	£ 8,843,064
Total value of output	£ 9,830,646	£ 12,470,248	£ 15,049,096	£ 15,855,802	£ 16,189,527
Value of production	£ 4,811,696	£ 5,554,501	£ 6,756,742	£ 6,557,216	£ 7,247,548

20. *Dressmaking and Millinery Establishments.—(i) Details for each State, 1943-44.* Particulars of dressmaking and millinery establishments are given separately in the following tables :—

DRESSMAKING ESTABLISHMENTS, 1943-44.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas. (a)	Australia.
Number of factories	125	432	40	47	35	9	688
Number of persons engaged	1,451	7,658	748	843	751	93	11,544
Value of land and buildings	£ 201,026	£ 1,300,807	£ 70,327	£ 73,536	£ 74,207	£ 9,768	£ 1,729,671
Value of plant and machinery	£ 20,331	£ 143,491	£ 12,173	£ 11,320	£ 11,211	£ 1,535	£ 200,061
Wages paid	£ 189,895	£ 1,267,281	£ 101,185	£ 108,734	£ 85,071	£ 9,021	£ 1,761,187
Value of fuel used	£ 2,487	£ 22,243	£ 1,483	£ 2,137	£ 1,333	£ 205	£ 29,888
Value of materials used	£ 221,115	£ 2,888,755	£ 101,353	£ 121,506	£ 105,612	£ 7,105	£ 3,505,446
Total value of output	£ 524,639	£ 5,105,782	£ 259,320	£ 302,834	£ 319,971	£ 22,520	£ 6,535,066
Value of production	£ 301,037	£ 2,194,784	£ 156,484	£ 179,191	£ 153,026	£ 15,210	£ 2,999,732

(a) Includes Millinery.

MILLINERY ESTABLISHMENTS, 1943-44.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas. (a)	Australia.
Number of factories	65	54	13	11	7	..	150
Number of persons engaged	996	723	322	192	45	..	2,278
Value of land and buildings	£ 221,746	£ 128,405	£ 38,706	£ 26,415	£ 4,315	..	£ 419,587
Value of plant and machinery	£ 15,011	£ 14,133	£ 7,178	£ 1,210	£ 198	..	£ 37,748
Wages paid	£ 167,104	£ 124,372	£ 59,251	£ 26,385	£ 4,958	..	£ 373,070
Value of fuel used	£ 4,407	£ 3,462	£ 1,178	£ 668	£ 96	..	£ 9,811
Value of materials used	£ 266,526	£ 201,935	£ 72,555	£ 38,715	£ 8,567	..	£ 588,292
Total value of output	£ 628,746	£ 453,171	£ 162,079	£ 79,053	£ 16,364	..	£ 1,339,413
Value of production	£ 357,819	£ 247,774	£ 88,346	£ 39,670	£ 7,701	..	£ 741,310

(a) Included in Dressmaking.

(ii) *Total for Australia, 1938-39 and 1940-41 to 1943-44.* Particulars of dressmaking and millinery establishments in Australia for the four years ended 1943-44 compared with 1938-39 are shown in the following table :—

DRESSMAKING AND MILLINERY ESTABLISHMENTS : AUSTRALIA.

Items.	1938-39.	1940-41.	1941-42.	1942-43.	1943-44.
Number of factories	869	848	837	814	838
Number of persons engaged	16,308	16,087	15,264	13,398	13,822
Value of land and buildings	£ 2,051,611	£ 2,125,668	£ 2,062,562	£ 2,029,915	£ 2,149,258
Value of plant and machinery	£ 189,263	£ 197,836	£ 200,947	£ 212,289	£ 237,809
Wages paid	£ 1,652,868	£ 1,817,518	£ 1,926,568	£ 1,913,297	£ 2,134,257
Value of fuel used	£ 33,067	£ 35,974	£ 37,341	£ 36,320	£ 39,699
Value of materials used	£ 2,609,363	£ 3,205,274	£ 3,510,770	£ 3,563,197	£ 4,093,738
Total value of output	£ 5,234,727	£ 6,149,563	£ 6,872,862	£ 6,869,242	£ 7,874,479
Value of production	£ 2,592,297	£ 2,908,315	£ 3,324,751	£ 3,269,725	£ 3,744,042

21. Shirts, Collars and Underclothing.—(i) *Details for each State, 1943-44.* Particulars of this industry are shown in the following table :—

SHIRTS, COLLARS AND UNDERCLOTHING, 1943-44.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories ..	142	97	16	27	16	..	298
Number of persons engaged ..	4,342	3,267	943	566	598	..	9,716
Value of land and buildings ..	£ 510,208	£ 428,672	£ 52,790	£ 35,790	£ 52,137	..	£ 1,079,603
Value of plant and machinery ..	£ 127,580	£ 99,091	£ 21,007	£ 12,668	£ 15,250	..	£ 275,596
Wages paid ..	£ 715,851	£ 559,885	£ 136,320	£ 82,963	£ 79,264	..	£ 1,574,283
Value of fuel used ..	£ 10,715	£ 10,961	£ 1,956	£ 1,563	£ 967	..	£ 26,162
Value of materials used ..	£ 2,398,447	£ 2,024,743	£ 199,496	£ 97,517	£ 154,374	..	£ 4,874,577
Total value of output ..	£ 3,544,551	£ 2,918,483	£ 397,056	£ 219,536	£ 260,302	..	£ 7,339,928
Value of production ..	£ 1,135,389	£ 882,779	£ 195,604	£ 120,456	£ 104,961	..	£ 2,439,189

(ii) *Total for Australia, 1938-39 and 1940-41 to 1943-44.* The following table shows the progress of the industry since 1938-39:—

SHIRTS, COLLARS AND UNDERCLOTHING : AUSTRALIA.

Items.	1938-39.	1940-41.	1941-42.	1942-43.	1943-44.
Number of factories ..	283	282	288	293	298
Number of persons engaged ..	11,081	11,078	10,740	9,851	9,716
Value of land and buildings ..	£ 945,972	£ 962,681	£ 1,009,714	£ 1,028,651	£ 1,079,603
Value of plant and machinery ..	£ 230,579	£ 244,640	£ 244,730	£ 259,913	£ 275,596
Wages paid ..	£ 1,142,855	£ 1,264,067	£ 1,432,992	£ 1,443,680	£ 1,574,283
Value of fuel used ..	£ 23,639	£ 25,611	£ 26,626	£ 25,858	£ 26,162
Value of materials used ..	£ 2,650,779	£ 3,497,898	£ 4,205,433	£ 4,353,022	£ 4,874,577
Total value of output ..	£ 4,435,209	£ 5,559,702	£ 6,623,001	£ 6,605,309	£ 7,339,928
Value of production ..	£ 1,766,791	£ 2,036,193	£ 2,390,942	£ 2,226,429	£ 2,459,189

22. Boot and Shoe Making and Repairing.—(i) *Boot and Shoe Factories, 1943-44.* The boot and shoe factories hold an important place both in regard to employment afforded and extent of output. The following table relates to boot and shoe factories as distinct from those devoted to repairing and bespoke work :—

BOOT AND SHOE FACTORIES, 1943-44.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories ..	109	177	23	17	8	3	337
Number of persons engaged ..	5,779	8,423	859	931	424	82	16,498
Value of land and buildings ..	£ 596,873	£ 680,856	£ 40,316	£ 63,747	£ 47,136	£ 5,020	£ 1,433,948
Value of plant and machinery ..	£ 290,703	£ 522,158	£ 72,520	£ 149,745	£ 51,706	£ 1,870	£ 1,088,702
Wages paid ..	£ 1,306,389	£ 2,044,636	£ 182,128	£ 195,000	£ 90,160	£ 14,632	£ 3,832,945
Value of fuel used ..	£ 21,556	£ 38,458	£ 2,557	£ 3,694	£ 1,907	£ 274	£ 68,446
Value of materials used ..	£ 2,487,840	£ 4,191,603	£ 376,950	£ 369,869	£ 185,356	£ 47,839	£ 7,659,457
Total value of output ..	£ 4,404,285	£ 7,376,946	£ 645,044	£ 622,834	£ 302,666	£ 74,491	£ 13,426,266
Value of production ..	£ 1,894,889	£ 3,146,885	£ 265,537	£ 249,271	£ 115,403	£ 26,378	£ 5,698,363

(ii) *Boot Repairing, including Bespoke Work.* The introduction of small power plants in repairing shops has brought this class of establishment within the meaning of a factory for statistical purposes. Shops using small power plants have spread rapidly throughout Australia, and in 1943-44 numbered 1,340, employing 2,611 persons. The sum of £279,571 was distributed in salaries and wages, and the output was valued at £1,296,436.

(iii) *Quantity and Value of Production.* The number and value of boots, shoes and slippers made at factories in each State are shown in the following table :—

BOOT AND SHOE FACTORIES : OUTPUT, 1943-44.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.	
QUANTITY.								
Boots and shoes	pairs	6,478,407	8,160,178	715,424	905,715	370,776	89,328	16,719,828
Slippers	"	2,503,587	2,750,667	571,443	92,758	221,499	(a)	6,139,954
Uppers (c)	"	7,045	34,570	(a)	(a)	334	(a)	(b) 47,538
VALUE.								
Boots and shoes	£	3,917,888	5,813,935	491,046	587,119	237,570	72,428	11,119,986
Slippers	£	406,265	492,543	95,849	13,722	45,384	..	1,053,763
Uppers (c)	£	5,199	30,163	(a)	(a)	214	(a)	(b) 38,810

(a) Not available for publication.

(b) Includes particulars for States marked (a).

(c) Made for other than factory use.

23. *Grain-milling.*—(i) *Details for States, 1943-44.* The following table shows the position of the grain-milling industry in each State :—

GRAIN-MILLING, 1943-44.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust. (a)	W. Aust.	Tas. (a)	Australia.
Number of factories ..	53	38	10	39	18	9	167
Number of persons engaged ..	1,360	1,095	424	532	460	122	3,993
Value of land and buildings £	823,130	661,696	179,338	183,953	250,144	67,590	2,165,851
Value of plant and machinery £	674,825	488,460	136,164	211,825	173,530	24,795	1,709,599
Wages paid ..	459,483	358,007	135,661	163,402	143,638	31,762	1,291,953
Value of fuel used ..	£ 101,626	87,182	28,131	46,772	50,465	4,546	318,722
Value of materials used	£ 5,480,338	4,380,566	1,481,520	1,719,614	1,724,001	269,638	15,055,677
Total value of output	£ 6,668,262	5,170,202	1,807,879	2,034,716	2,061,730	319,790	18,062,579
Value of production ..	£ 1,086,298	702,454	298,228	268,330	287,264	45,606	2,688,180

(a) The manufacture of cornflour, oatmeal, etc., was also carried on in some of these establishments.

(ii) *Production of Flour and By-products, 1938-39 and 1940-41 to 1943-44.* The production of flour by the mills in each State for the years indicated was as follows :—

GRAIN-MILLING : PRODUCTION OF FLOUR.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
	Tons.(a)	Tons.(a)	Tons.(a)	Tons.(a)	Tons.(a)	Tons.(a)	Tons.(a)
1938-39 ..	547,162	436,829	84,314	146,262	138,533	19,582	1,372,732
1940-41 ..	577,759	452,812	88,851	131,325	149,925	17,057	1,417,729
1941-42 ..	448,529	312,147	92,609	117,842	135,338	20,735	1,127,200
1942-43 ..	363,452	288,134	102,864	97,826	126,274	16,812	995,362
1943-44 ..	496,853	409,190	125,603	149,892	159,799	17,153	1,358,490

(a) Tons of 2,000 lb.

The 1943-44 production of 1,358,490 tons of flour in Australia was valued at £13,380,016. In addition, 557,546 tons of bran and pollard, valued at £3,234,168 were made. The quantity of wheat ground was 69,559,014 bushels.

24. Bakeries.—Information regarding establishments in which the manufacture of bread, cakes, etc., was carried on in the year 1943-44 is given in the table below. It should be noted, however, that, as explained in § 1, par. 2, p. 908 the details refer only to establishments coming within the definition of a factory. For that reason there are a large number of bakehouses omitted and consequently the table does not give complete details of the industry. 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 of this fact is deemed necessary.

BAKERIES (INCLUDING CAKES AND PASTRY), 1943-44.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.(a)	Australia.
Number of factories ..	857	728	270	156	148	88	2,247
Number of persons engaged ..	4,649	3,647	1,627	1,006	540	1,144	12,613
Value of land and buildings £	2,692,609	1,490,583	476,854	302,397	203,977	347,992	5,514,412
Value of plant and machinery £	650,189	464,268	155,529	150,632	61,165	110,904	1,592,687
Wages paid ..	£ 1,057,207	781,467	323,916	227,120	110,961	238,537	2,739,208
Value of fuel used ..	£ 215,428	141,030	57,335	39,745	22,781	32,630	508,949
Value of materials used ..	£ 3,665,141	2,884,841	1,316,748	759,505	438,020	797,861	9,862,116
Total value of output ..	£ 6,200,274	4,887,909	2,177,069	1,271,176	746,937	1,201,592	16,484,957
Value of production ..	£ 2,319,705	1,862,038	802,986	471,926	286,136	371,101	6,113,892

(a) Includes Confectionery.

25. Sugar-mills.—(i) *Details for 1943-44.* The following table shows the position of the cane-crushing branch of the sugar-making industry in New South Wales and Queensland in 1943-44. Sugar-cane is not grown in the other States. Details regarding the area, yield, etc., of sugar-cane will be found in Chapter XX. "Agricultural Production".

SUGAR-MILLS, 1943-44.

Items.	N.S.W.	Queensland.	Australia.
Number of factories ..	3	33	36
Number of persons engaged ..	317	3,834	4,151
Value of land and buildings ..	£ 262,376	1,106,838	1,369,214
Value of plant and machinery ..	£ 953,267	6,814,104	7,767,371
Wages paid ..	£ 138,165	1,266,422	1,404,587
Value of fuel used ..	£ 36,769	155,394	192,163
Value of materials used ..	£ 480,316	7,928,004	8,408,320
Total value of output ..	£ 718,341	10,136,588	10,854,929
Value of production ..	£ 201,256	2,053,190	2,254,446

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. Part of the molasses produced is used for distillation, part is prepared for human consumption, part is turned into food-cake for cattle, part is used for manuring land, and the balance is either burnt as fuel or is allowed to run to waste. The latter, however, is a diminishing quantity.

(ii) *Progress of Industry.* (a) *New South Wales.* The following table gives details of this industry in New South Wales since 1911 :—

SUGAR-MILLS : NEW SOUTH WALES.

Items.	1911.	1938-39.	1941-42.	1942-43.	1943-44.
Number of factories ..	4	3	3	3	3
Number of employees ..	469	212	260	312	317
Cane crushed .. tons	147,799	337,038	359,433	338,013	290,364
Sugar produced ..	17,299	45,106	48,336	44,290	37,442
Molasses produced gals.	796,440	1,489,090	1,771,200	140,000	135,040

The concentration of cane-crushing in establishments fitted with modern machinery has caused the closing of the small home mill and thereby reduced the number of mills operating. The Government assistance, referred to in Chapter XX. "Agricultural Production", has resulted in considerable progress in the cultivation of sugar-cane and increased activity in milling. Particulars regarding cane crushed and sugar produced embodied in these tables refer to the quantities treated during the years ended 30th June, irrespective of the season in which the cane was grown; consequently the figures relating to cane crushed and sugar produced may differ slightly from those given in Chapter XX. "Agricultural Production" which relate to harvest years.

(b) *Queensland.* Details for Queensland for 1911, 1938-39 and the three years 1941-42 to 1943-44 are given hereunder:—

SUGAR-MILLS : QUEENSLAND.

Items.	1911.	1938-39.	1941-42.	1942-43.	1943-44.
Number of factories ..	49	33	33	32	33
Number of persons engaged ..	4,295	4,419	4,100	4,114	3,834
Cane crushed .. tons	1,534,451	5,432,193	4,794,237	4,353,488	3,397,617
Sugar produced .. "	173,296	775,064	697,644	605,609	486,423
Molasses—					
Sold to distillers and others .. gals.	2,393,669	8,275,887	12,882,397	10,457,747	7,345,596
Used as fodder .. "	789,564	4,237,196	3,490,937	3,071,918	3,055,728
Used as manure .. "	223,000	3,293,543	1,510,650	1,857,300	2,122,220
Run to waste .. "		498,926	55,237	31,153	97,643
Burnt as fuel .. "	1,847,333	3,748,590	1,232,338	3,024,370	2,176,926
Sold or used for other purposes .. "		232,049	158,821	303,240	441,522
In stock .. "	1,197,626				
Total molasses .. "	6,451,192	20,286,191	19,330,380	18,745,728	15,239,635

26. *Sugar Refineries.*—The establishment of the sugar-refining industry considerably antedates the establishment of the sugar-milling industry, the raw material operated on in the earlier years coming chiefly from Mauritius and the East. In 1943-44 there were two sugar refineries in each of the States of Victoria and Queensland, and one in each of the States of New South Wales, South Australia and Western Australia. The quantity of raw sugar treated amounted to 436,656 tons, for a yield of 418,584 tons of refined sugar, valued at £13,391,010.

27. *Confectionery Factories.*—(i) *Details for each State, 1943-44.* The figures for 1943-44 are given hereunder:—

SUGAR CONFECTIONERY FACTORIES, (a) 1943-44.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas. (b)	Australia.
Number of factories ..	75	85	10	24	8	1	212
Number of persons engaged ..	3,149	2,479	489	344	290	1	6,752
Value of land and buildings £	1,023,982	642,729	215,764	94,518	(c)	(c)	(d) 2,046,082
Value of plant and machinery £	773,224	508,684	113,150	50,161	(c)	(c)	(d) 1,511,970
Wages paid ..	748,529	546,025	103,686	59,095	(c)	(c)	(d) 1,515,612
Value of fuel used ..	76,565	61,904	20,886	15,841	(c)	(c)	(d) 24,733
Value of materials used £	2,737,882	1,993,469	465,463	213,490	(c)	(c)	(d) 5,624,475
Total value of output £	4,938,219	3,748,627	1,034,126	363,144	(c)	(c)	(d) 10,453,162
Value of production ..	2,123,772	1,693,254	547,777	133,813	(c)	(c)	(d) 4,643,954

(a) Includes Chocolate and Ice Cream. (b) Ice Cream factory—Other Confectionery included in Bakeries. (c) Not available for publication. (d) Includes particulars of States marked (c).

(ii) *Total for Australia, 1938-39 and 1940-41 to 1943-44.* Particulars of the confectionery industry during the last four years are compared with 1938-39 in the following table :—

SUGAR CONFECTIONERY FACTORIES(a) : AUSTRALIA.

Items.	1938-39.	1940-41.	1941-42.	1942-43.	1943-44.
Number of factories	209	202	186	188	212
Number of persons engaged	8,276	8,193	7,481	6,414	6,752
Value of land and buildings	£ 2,079,601	2,172,872	1,991,097	1,999,127	2,046,082
Value of plant and machinery	£ 1,854,398	1,828,898	1,653,210	1,551,780	1,511,970
Wages paid	£ 1,231,375	1,360,498	1,403,263	1,368,343	1,515,612
Value of fuel used	£ 144,349	157,744	157,975	171,384	184,733
Value of materials used	£ 3,704,774	4,341,473	4,165,368	4,845,678	5,624,475
Total value of output	£ 7,107,045	8,100,217	7,962,482	9,257,737	10,453,162
Value of production	£ 3,257,922	3,601,000	3,639,139	4,240,675	4,643,954

(a) See notes to previous table.

Confectionery establishments in Tasmania have been combined with bakeries in order to conceal confidential information. Production in Australia is more than sufficient to supply local requirements.

28. *Jam and Fruit Preserving, Pickles, Sauces and Vinegar Factories.*—(i) *Details for each State, 1943-44.* The following table gives particulars of factories included in this class for 1943-44 :—

JAM AND FRUIT PRESERVING, PICKLES, ETC., FACTORIES, 1943-44.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories	53	51	13	14	11	10	152
Number of persons engaged	3,549	5,005	489	835	306	1,232	11,416
Value of land and buildings	£ 653,028	966,492	57,441	121,895	54,528	202,466	2,055,850
Value of plant and machinery	£ 452,911	514,836	58,362	50,989	51,482	67,374	1,195,954
Wages paid	£ 893,097	1,231,150	104,708	157,730	55,785	298,245	2,740,715
Value of fuel used	£ 82,008	119,665	8,084	17,699	7,591	34,049	269,996
Value of materials used	£ 3,588,315	5,727,610	556,435	628,961	225,989	1,159,325	11,886,635
Total value of output	£ 5,179,193	8,238,373	765,817	915,344	328,244	1,558,538	16,985,506
Value of production	£ 1,507,970	2,391,098	201,298	268,684	94,664	305,161	4,828,875

(ii) *Total for Australia, 1938-39 and 1940-41 to 1943-44.* Particulars in connexion with these establishments in Australia for the four years 1940-41 to 1943-44 compared with 1938-39 are given hereunder :—

JAM AND FRUIT PRESERVING, PICKLES, ETC., FACTORIES : AUSTRALIA.

Items.	1938-39.	1940-41.	1941-42.	1942-43.	1943-44.
Number of factories	123	138	139	143	152
Number of persons engaged	6,476	7,699	8,761	9,868	11,416
Value of land and buildings	£ 1,382,150	1,546,101	1,584,591	1,667,493	2,055,850
Value of plant and machinery	£ 720,639	814,470	820,189	813,917	1,195,954
Wages paid	£ 1,148,991	1,483,118	1,822,020	2,225,581	2,740,715
Value of fuel used	£ 97,521	129,969	156,487	206,641	269,996
Value of materials used	£ 4,799,515	6,660,681	7,867,943	9,605,024	11,886,635
Total value of output	£ 7,230,914	10,303,543	12,010,694	14,009,177	16,985,506
Value of production	£ 2,333,878	3,512,893	3,986,264	4,197,692	4,828,875

The progress of the jam-making industry was very marked during the war years of 1914-19, and a peak of 142 million lb. was reached in 1918-19. During the succeeding years the production varied considerably, falling to 66,120,000 lb. in 1930-31. During the 1939-45 War production again expanded and a record output of 171 million lb. was attained in 1943-44. The output of preserved fruit reached the record dimensions of 157,761,000 lb. in 1937-38. Production in 1943-44 was lower at 120,861,000 lb. The production of pickles and sauces again showed a satisfactory improvement.

(iii) *Production.* The following table shows the quantity and value of jams, pickles and sauces manufactured in each State in 1943-44:—

JAMS, PRESERVED FRUIT, PICKLES AND SAUCES : OUTPUT, 1943-44.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia. (b)
QUANTITY.							
Jams and Jellies .. '000 lb.	54,667	70,740	8,781	10,960	1,347	24,458	170,953
Fruit Pulp—							
Consumed in own works .. cwt.	37,255	31,737	(a)	87,275	4,380	(a)	b168,861
For sale or addition to stock .. cwt.	28,949	51,799	(a)	4,521	85,620	(a)	b383,075
Tomato Pulp—							
Consumed in own works .. cwt.	10,527	99,805	665	20,945	3,089	..	135,031
For sale or addition to stock .. cwt.	44,538	373,864	..	5,160	2,436	30,040	456,038
Fruit, preserved .. '000 lb.	19,211	80,375	10,190	5,944	248	4,893	120,861
Pickles .. '000 pints	4,843	3,556	(a)	1,384	(a)	..	b 9,992
Sauces	14,571	19,258	1,162	3,159	(a)	(a)	b 39,306
VALUE.							
Jams and Jellies .. £	1,432,527	1,883,380	234,165	283,698	36,170	689,030	4,608,970
Fruit, preserved .. £	499,720	1,780,293	260,775	128,113	5,035	102,496	2,776,432
Pickles £	249,443	142,895	(a)	65,777	(a)	..	464,403
Sauces £	822,641	771,806	57,359	105,916	(a)	(a)	1,790,179

(a) Not available for publication.

(b) Includes particulars for States marked (a).

29. *Bacon-curing Factories.*—(i) *Details for each State, 1943-44.* The table hereunder gives particulars of factories engaged in bacon-curing in each State for 1943-44:—

BACON-CURING FACTORIES, 1943-44.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories	28	18	7	12	6	11	82
Number of persons engaged ..	560	578	813	323	214	73	2,561
Value of land and buildings .. £	231,956	217,194	205,764	107,316	44,819	26,470	833,519
Value of plant and machinery .. £	59,307	96,762	124,985	36,639	22,900	9,215	349,808
Wages paid	170,184	170,127	233,447	81,475	63,770	17,262	736,265
Value of fuel used	22,933	27,869	27,578	21,825	13,684	2,472	116,361
Value of materials used	2,049,861	1,488,109	2,554,649	769,509	882,637	200,537	7,945,302
Total value of output	2,495,410	1,778,395	2,923,063	923,427	993,391	236,671	9,350,357
Value of production	422,616	262,417	340,836	132,093	97,070	33,662	1,288,694

(ii) *Quantity and Value of Production.* The number of pigs cured and the quantity and value of the production of factories in each State for 1943-44 are given in the following table:—

BACON-CURING FACTORIES : PIGS CURED AND PRODUCTION, 1943-44.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
PIGS CURED.							
Pigs cured on own account No.	224,656	198,395	348,065	102,466	93,887	23,913	991,382
Pigs cured on commission ..	789	2,370	525	4,458	167	474	8,783
Total	225,445	200,765	348,590	106,924	94,054	24,387	1,000,165
PRODUCTS.							
Bacon and ham .. '000 lb.	30,680	21,198	26,701	9,896	9,681	2,392	100,548
Lard "	962	1,228	2,611	441	614	131	5,987
VALUE.							
Bacon and ham (a)	£ 2,123,290	£ 1,360,081	£ 1,878,515	£ 603,628	£ 540,670	£ 157,005	£ 6,663,189
Lard "	£ 26,502	£ 42,006	£ 63,039	£ 10,131	£ 13,957	£ 3,820	£ 159,455

(a) Partly estimated.

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

30. *Butter, Cheese and Condensed Milk Factories.*—(i) *Details for each State, 1943-44.* The following table gives particulars of butter, cheese and condensed milk factories in each State:—

BUTTER, CHEESE AND CONDENSED MILK FACTORIES, 1943-44.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.A.	Tas.	Australia.
Number of factories ..	117	152	99	47	17	40	472
Number of persons engaged ..	1,937	3,811	1,710	714	265	275	8,712
Value of land and buildings ..	£ 733,815	£ 1,448,699	£ 753,912	£ 212,849	£ 79,001	£ 132,222	£ 3,360,498
Value of plant and machinery ..	£ 921,990	£ 1,367,977	£ 859,570	£ 152,513	£ 81,998	£ 115,017	£ 3,499,065
Wages paid ..	£ 558,102	£ 1,160,789	£ 476,398	£ 184,194	£ 74,094	£ 72,440	£ 2,526,017
Value of fuel used ..	£ 183,005	£ 329,981	£ 114,699	£ 43,555	£ 22,153	£ 14,818	£ 708,211
Value of materials used ..	£ 8,781,359	£ 11,936,872	£ 10,736,313	£ 1,989,682	£ 1,127,105	£ 729,499	£ 35,300,830
Total value of output ..	£ 9,802,228	£ 14,475,120	£ 11,815,263	£ 2,389,273	£ 1,317,951	£ 903,469	£ 40,703,304
Value of production ..	£ 837,864	£ 2,208,267	£ 964,251	£ 356,036	£ 168,693	£ 159,152	£ 4,694,263

(ii) *Total for Australia, 1938-39 and 1940-41 to 1943-44.* The progress during the four years 1940-41 to 1943-44 of industries included in this group is compared with 1938-39 in the following table:—

BUTTER, CHEESE AND CONDENSED MILK FACTORIES : AUSTRALIA.

Items.	1938-39.	1940-41.	1941-42.	1942-43.	1943-44.
Number of factories ..	523	518	499	487	472
Number of persons engaged ..	6,851	7,686	8,234	8,584	8,712
Value of land and buildings ..	£ 2,880,323	£ 3,143,908	£ 3,258,229	£ 3,345,500	£ 3,360,498
Value of plant and machinery ..	£ 3,066,840	£ 3,388,674	£ 3,520,312	£ 3,521,161	£ 3,499,065
Wages paid ..	£ 1,569,531	£ 1,871,871	£ 2,135,819	£ 2,307,324	£ 2,526,017
Value of fuel used ..	£ 389,501	£ 474,110	£ 582,207	£ 671,072	£ 708,211
Value of materials used ..	£ 29,161,983	£ 30,153,314	£ 28,989,005	£ 33,372,425	£ 35,300,830
Total value of output ..	£ 33,094,851	£ 34,804,895	£ 33,900,249	£ 37,708,383	£ 40,703,304
Value of production ..	£ 3,543,367	£ 4,177,471	£ 4,329,037	£ 4,664,886	£ 4,694,263

(iii) *Quantity and Value of Production.* The next table shows the quantities and values of butter, cheese and condensed milk produced and the quantities of milk used in their production during 1943-44. These details are restricted to factory production and therefore exclude farm output.

BUTTER, CHEESE AND CONDENSED MILK FACTORIES : PRODUCTION, 1943-44.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
MILK USED (,000 OMITTED).							
For the manufacture of—							
Butter .. gals.	180,960	216,290	204,219	34,667	28,272	15,184	679,592
Cheese .. "	5,388	26,480	21,664	18,467	1,555	2,338	75,892
Condensed, &c., Milk .. "	17,166	42,048	..	(a)	(a)	(a)	(b)63,253
PRODUCTS (,000 OMITTED).							
Butter .. lb.	87,857	109,457	101,416	18,027	13,786	7,325	337,868
Cheese .. "	5,374	26,584	(c) 24,042	19,726	1,773	2,356	79,855
Condensed and concentrated milk .. lb.	27,145	75,164	..	(a)	(a)	..	(b)116,610
Powdered milk .. "	(a)	33,352	..	..	(a)	..	(b)42,556
VALUE (,000 OMITTED).							
Butter .. £	6,006	7,657	7,214	1,299	1,016	642	23,834
Cheese .. £	257	1,142	(c) 997	803	85	112	3,396
Condensed and concentrated milk .. £	601	2,146	..	(a)	(a)	..	(b) 3,201
Powdered milk .. £	(a)	1,503	..	..	(a)	..	(b) 2,018

(a) Not available for publication. (b) Includes particulars for States marked (a). (c) Includes 1,720,440 lb. of cheese, valued at £69,846, made in establishments not classified as factories.

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

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

MEAT AND FISH PRESERVING WORKS,(a) 1943-44.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	14	12	13	3	6	3	51
Number of persons engaged ..	1,171	1,127	5,091	282	61	45	8,377
Value of land and buildings ..	£ 151,003	£ 143,325	£ 1,563,516	£ 18,912	£ 21,798	£ 18,930	£ 1,917,544
Value of plant and machinery ..	£ 134,582	£ 86,162	£ 932,150	£ 9,166	£ 23,687	£ 16,293	£ 1,202,240
Wages paid ..	£ 329,312	£ 327,416	£ 2,017,517	£ 60,457	£ 20,602	£ 11,215	£ 2,766,519
Value of fuel used ..	£ 53,178	£ 31,222	£ 203,232	£ 4,099	£ 4,031	£ 2,106	£ 297,868
Value of materials used ..	£ 2,038,126	£ 2,320,668	£ 9,690,938	£ 461,485	£ 74,869	£ 19,922	£ 14,606,008
Total value of output ..	£ 2,828,833	£ 3,311,797	£ 12,499,013	£ 574,334	£ 108,281	£ 51,014	£ 19,373,272
Value of production ..	£ 737,529	£ 959,907	£ 2,604,843	£ 108,750	£ 20,381	£ 28,986	£ 4,469,396

(a) Includes meat extracts.

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

32. **Breweries.**—(i) *Details for each State, 1943-44.* The following table gives particulars relating to breweries in each State:—

BREWERIES, 1943-44.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories	6	8	6	5	6	2	33
Number of persons engaged ..	1,065	1,374	478	305	548	103	3,873
Value of land and buildings £	1,168,014	756,689	502,028	(a)	282,962	(a)	b 3,196,938
Value of plant and machinery £	705,568	830,740	384,367	(a)	270,259	(a)	b 2,595,508
Wages paid	£ 362,744	556,889	168,508	(a)	209,055	(a)	b 1,444,363
Value of fuel used	£ 99,543	98,086	50,576	(a)	48,248	(a)	b 339,482
Value of materials used	£ 1,292,586	1,383,450	424,041	(a)	478,900	(a)	b 4,015,503
Total value of output	£ 3,784,024	2,621,378	1,369,348	(a)	1,214,680	(a)	b 9,969,828
Value of production	£ 2,391,895	1,139,842	894,731	(a)	687,532	(a)	b 5,614,843

(a) Not available for publication.

(b) Includes particulars for States marked (a).

(ii) *Total for Australia, 1938-39 and 1940-41 to 1943-44.* The next table shows the extent of this industry for 1938-39 and the four years 1940-41 to 1943-44:—

BREWERIES : AUSTRALIA.

Items.	1938-39.	1940-41.	1941-42.	1942-43.	1943-44.
Number of factories	34	33	33	33	33
Number of persons engaged ..	3,698	4,107	4,179	3,910	3,873
Value of land and buildings ..	£ 2,801,147	3,048,505	3,199,623	3,201,121	3,196,938
Value of plant and machinery ..	£ 2,737,042	2,881,920	2,856,982	2,762,038	2,595,508
Wages paid	£ 1,215,473	1,317,754	1,462,743	1,424,451	1,444,363
Value of fuel used	£ 251,286	283,288	310,574	317,256	339,482
Value of materials used	£ 3,406,572	4,347,747	4,821,610	4,000,863	4,015,503
Total value of output	£ 9,030,309	10,786,546	11,212,151	9,736,720	9,969,828
Value of production	£ 5,372,451	6,155,511	6,079,967	5,418,601	5,614,843

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 109,155,107 gallons in 1941-42. 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 12.94 gallons in 1944-45.

(iii) *Materials Used and Production.* The table below shows the quantities of raw materials used and the quantity and value of ale, stout and beer brewed in each State during 1943-44.

BREWERIES : MATERIALS USED AND PRODUCTION, 1943-44.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
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RAW MATERIAL USED.

Malt .. bushels	1,098,320	956,171	397,212	(b)	345,345	(b)	(c) 3,146,215
Hops .. lb.	839,366	798,410	304,764	(b)	216,727	(b)	(c) 2,413,458
Sugar .. cwt.	168,220	121,580	46,520	(b)	27,980	(b)	(c) 402,240

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

Malt .. bushels	28.73	31.26	30.99	34.97	35.71	38.41	31.13
Hops .. lb.	21.96	26.10	23.78	29.93	22.41	20.63	23.88
Sugar .. cwt.	4.40	3.97	3.63	4.28	2.89	2.48	3.98

ALE, STOUT AND BEER BREWED.

Quantity gallons	38,224,792	30,590,447	12,815,605	(b)	9,670,622	(b)	101,072,708
Value (a) £	3,752,663	2,590,000	1,364,840	(b)	1,179,787	(b)	69,851,427

(a) Excludes Excise duty.

(b) Not available for publication.

(c) Includes particulars for States marked (b).

33. **Distilleries.**—Distilleries are located in all the States except Western Australia and Tasmania. The following table, which has been compiled from returns of the Excise Branch of the Department of Trade and Customs, shows the materials used in distilleries in Australia and the quantity of spirits distilled therefrom for the years 1940-41 to 1943-44 compared with the year 1938-39.

DISTILLERIES: AUSTRALIA.

Particulars.	Unit of Quantity.	1938-39.	1940-41.	1941-42.	1942-43.	1943-44.
PRINCIPAL MATERIALS USED.						
Barley Malt	bushel	89,528	99,041	192,979	220,081	240,386
Barley	"	80,548	84,094	77,694	143,637	170,954
Wheat	"	"	775	16,921	41,432	706,712
Malted Wheat	"	"	"	6,170	10,633	11,495
Maize	"	7,643	2	79,846	27,832	18,208
Molasses	cwt.	1,405,271	1,770,045	1,620,391	1,418,002	1,086,747
Sugar	"	"	725	987,663	1,330,034	1,078,714
Wine	gal.	11,364,208	11,503,804	10,474,912	11,407,752	12,631,059
Grapes	cwt.	170,818	120,970	75,169	169,846	203,408
Raisins	"	19,521	3,300	28,935	22,279	15,031
SPIRITS DISTILLED FROM—						
Barley and other Grain Malt	proof gal.	434,578	564,234	958,006	1,122,660	3,710,810
Molasses and Sugar .. .. .	.. .. .	7,025,416	9,054,921	17,056,871	22,199,638	18,566,633
Wine and Wine Lees .. .. .	.. .. .	2,249,265	1,934,129	2,170,582	2,851,301	2,365,028
Other .. .. .	.. .. .	7,305	..	76,260	53,614	76,304
Total .. .. .	.. .. .	9,716,564	11,553,284	20,261,719	26,227,213	24,718,775
Spirits denatured .. .. .	.. .. .	4,553,152	7,054,797	14,758,311	19,416,985	18,391,976

34. **Tobacco, etc., Factories.**—(i) *Details for each State, 1943-44.* During 1943-44 there were 25 establishments in which the manufacture of tobacco, cigars or cigarettes was carried on. There are no such factories in Tasmania.

TOBACCO, CIGAR AND CIGARETTE FACTORIES, 1943-44.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Australia.
Number of factories	8	11	4	1	1	25
Number of persons engaged	2,969	1,949	38	8	148	5,112
Value of land and buildings	£ 605,989	337,271	(a)	(a)	(a)	(b) 968,985
Value of plant and machinery	£ 493,848	279,290	(a)	(a)	(a)	(b) 789,755
Wages paid	£ 724,912	485,630	(a)	(a)	(a)	(b) 1,243,646
Value of fuel used	£ 30,083	13,373	(a)	(a)	(a)	(b) 44,366
Value of materials used	£ 6,922,959	3,089,982	(a)	(a)	(a)	(b) 10,087,241
Total value of output	£ 8,529,942	4,269,847	(a)	(a)	(a)	(b) 12,934,104
Value of production	£ 1,576,900	1,166,492	(a)	(a)	(a)	(b) 2,802,497

(a) Not available for publication.

(b) Includes particulars for States marked (a).

(ii) *Total for Australia, 1938-39 and 1940-41 to 1943-44.* This industry was among the first to be established in Australia. In 1861 New South Wales had eleven factories, producing 177,744 lb. of manufactured tobacco; in the same year there was one factory in Victoria, but the quantity of tobacco manufactured is not available. The Australian market has for many years been largely supplied with local manufactures from the imported leaf. Imports during 1943-44 comprised—manufactured tobacco 328,030 lb., cigars 41 lb., and cigarettes 74,143 lb., and the quantities manufactured in Australian

factories were respectively 18,186,936 lb., 134,498 lb., and 8,929,100 lb. The following tables show the extent of the industry in Australia for the four years 1940-41 to 1943-44 compared with 1938-39 :—

TOBACCO, CIGAR AND CIGARETTE FACTORIES : AUSTRALIA.

Items.	1938-39.	1940-41.	1941-42.	1942-43.	1943-44.
Number of factories	30	25	24	24	25
Number of employees	5,544	5,509	5,571	5,376	5,112
Value of land and buildings	£ 1,041,798	1,002,483	992,218	984,398	968,985
Value of plant and machinery	£ 943,644	895,125	868,050	832,620	789,755
Wages paid	£ 1,095,912	1,098,773	1,227,592	1,288,898	1,243,646
Value of fuel used	£ 34,483	36,683	39,743	56,107	44,366
Value of materials used	£ 7,080,574	7,787,045	8,516,671	9,141,931	10,087,241
Total value of output	£ 9,800,413	10,994,180	12,062,052	12,803,771	12,934,104
Value of production	£ 2,685,356	3,170,452	3,505,638	3,605,733	2,802,497

LEAF USED AND PRODUCTION.

Leaf used { Australian (Stemmed) Imported (")	'000 lb.	1938-39.	1940-41.	1941-42.	1942-43.	1943-44.
Tobacco made	"	4,489	4,889	4,925	4,974	4,951
Cigars made	"	16,011	16,813	18,239	19,374	19,202
Cigarettes made	"	16,305	16,372	17,683	19,186	18,187
	"	238	224	234	175	134
	"	6,731	7,806	8,713	8,681	8,929

For many years the production of locally-grown leaf was comparatively small, and manufacturers were dependent on imported leaf for the supply of their raw material. Increased 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; in 1932-33 the quantity of local leaf used fell to 2.7 million lb., but it has since risen to 4.95 million lb. in 1943-44. In this connexion, see Chapter XX. "Agricultural Production".

35. Sawmills, etc.—(i) *Details for States, 1943-44.* The most important industry in Class X. is that of sawmilling. As separate particulars of forest sawmills are not available for some of the States, both forest and town sawmills, as well as plywood and bark mills, have been combined in the following table :—

SAWMILLS, FOREST AND TOWN PLYWOOD AND BARK MILLS, 1943-44.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories	606	296	334	50	114	222	1,622
Number of persons engaged	5,849	3,670	5,557	1,229	2,095	1,623	20,023
Value of land and buildings £	810,223	402,522	392,450	239,265	196,690	122,249	2,163,399
Value of plant and machinery	£ 822,888	741,080	663,421	193,587	422,652	319,133	3,162,761
Wages paid	£ 1,465,750	991,165	1,405,117	314,764	542,984	367,403	5,087,183
Value of fuel used	£ 96,702	71,170	66,626	18,849	41,908	29,957	325,212
Value of materials used	£ 3,881,526	2,143,743	2,523,423	1,024,468	722,569	575,439	10,871,168
Total value of output	£ 6,323,086	3,942,106	4,746,595	1,591,819	1,526,759	1,147,749	19,278,114
Value of production	£ 2,344,858	1,727,193	2,156,546	548,502	762,282	542,353	8,081,734

(ii) *Total for Australia, 1938-39 and 1940-41 to 1943-44.* The development of forest and other sawmills, etc., since 1938-39 is shown in the following table :—

SAWMILLS, FOREST AND TOWN ; PLYWOOD AND BARK MILLS : AUSTRALIA.

Items.	1938-39.	1940-41.	1941-42.	1942-43.	1943-44.
Number of establishments	1,660	1,594	1,627	1,558	1,622
Number of persons engaged	19,104	20,607	21,046	19,900	20,023
Value of land and buildings	£ 2,054,611	2,001,873	2,083,313	2,093,726	2,163,399
Value of plant and machinery	£ 2,785,716	2,892,865	2,975,484	2,979,732	3,162,761
Wages paid	£ 3,634,627	4,214,338	4,701,900	4,839,413	5,087,183
Value of fuel used	£ 225,782	260,601	292,024	307,868	325,212
Value of materials used	£ 8,522,895	9,550,006	9,946,601	9,465,003	10,871,168
Total value of output	£ 14,537,888	16,573,182	17,824,477	17,395,542	19,278,114
Value of production	£ 5,789,211	6,763,115	7,585,852	7,611,671	8,081,734

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 stood at 850 million super. feet in 1943-44. Further reference is made to the sawmilling industry in Chapter XXII. "Forestry".

36. Furniture, Cabinet-making, and Upholstery.—These industries constitute the principal manufactures in Class XI. The following table gives particulars for each State in 1943-44 :—

FURNITURE, CABINET-MAKING AND UPHOLSTERY FACTORIES, 1943-44.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories ..	189	244	77	65	59	36	670
Number of persons engaged ..	2,718	1,741	1,054	787	421	302	7,023
Value of land and buildings ..	£ 656,538	£ 519,831	£ 207,217	£ 121,168	£ 89,247	£ 46,105	£ 1,640,106
Value of plant and machinery ..	£ 165,691	£ 98,420	£ 55,226	£ 51,001	£ 21,516	£ 14,003	£ 405,857
Wages paid ..	£ 776,236	£ 399,547	£ 266,258	£ 171,422	£ 83,270	£ 53,728	£ 1,750,461
Value of fuel used ..	£ 24,041	£ 12,145	£ 7,310	£ 6,612	£ 2,402	£ 1,412	£ 53,922
Value of materials used ..	£ 1,176,595	£ 650,221	£ 425,172	£ 277,605	£ 142,611	£ 73,593	£ 2,745,797
Total value of output ..	£ 2,430,542	£ 1,450,627	£ 860,870	£ 578,481	£ 295,246	£ 166,988	£ 5,782,754
Value of production ..	£ 1,229,906	£ 788,261	£ 428,388	£ 294,264	£ 150,233	£ 91,983	£ 2,983,035

37. Printing Works.—Printing and bookbinding works rank high in importance among the industries of Australia, and in 1943-44 afforded employment for about 21,600 employees, and paid nearly £5,821,000 in salaries and wages, while the value of output amounted to £18,187,000. The first table below gives particulars of establishments engaged in general printing in each State for 1943-44. These establishments include those engaged in lithographic printing, the printing of periodicals, excepting those which may be produced by newspapers, bookbinding, paper ruling and linotyping. Government printing works are included, but establishments producing newspapers and weekly publications are shown separately in the second table to follow :—

GOVERNMENT AND GENERAL PRINTING WORKS, 1943-44.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories ..	316	358	79	63	62	18	896
Number of persons engaged ..	5,596	5,688	1,498	1,055	720	345	14,302
Value of land and buildings ..	£ 1,477,826	£ 1,583,507	£ 333,912	£ 220,716	£ 198,828	£ 77,465	£ 3,892,254
Value of plant and machinery ..	£ 1,122,367	£ 910,657	£ 163,601	£ 102,605	£ 133,043	£ 69,459	£ 2,501,822
Wages paid ..	£ 1,441,350	£ 1,248,678	£ 337,911	£ 223,127	£ 152,879	£ 92,991	£ 3,406,936
Value of fuel used ..	£ 39,740	£ 40,078	£ 10,555	£ 7,606	£ 5,143	£ 2,170	£ 105,292
Value of materials used ..	£ 2,063,319	£ 1,813,513	£ 435,296	£ 253,120	£ 211,680	£ 79,895	£ 4,856,823
Total value of output ..	£ 4,832,811	£ 4,085,141	£ 1,030,127	£ 610,508	£ 526,015	£ 232,091	£ 11,325,782
Value of production ..	£ 2,729,752	£ 2,231,550	£ 584,276	£ 358,872	£ 309,192	£ 150,026	£ 6,363,668

ESTABLISHMENTS PRODUCING NEWSPAPERS (INCLUDING WEEKLY PUBLICATIONS), 1943-44.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	184	118	52	35	30	7	426
Number of persons engaged ..	3,460	1,700	1,009	492	381	234	7,276
Value of land and buildings ..	£ 1,723,912	£ 785,006	£ 512,555	£ 355,689	£ 250,434	£ 39,819	£ 3,667,415
Value of plant and machinery ..	£ 1,490,217	£ 466,219	£ 298,932	£ 169,063	£ 78,940	£ 35,021	£ 2,538,392
Wages paid ..	£ 1,126,540	£ 556,774	£ 295,222	£ 153,347	£ 130,416	£ 61,327	£ 2,323,626
Value of fuel used ..	£ 49,618	£ 26,862	£ 18,590	£ 7,088	£ 9,100	£ 2,566	£ 113,824
Value of materials used ..	£ 1,354,266	£ 696,729	£ 237,741	£ 152,644	£ 119,662	£ 33,699	£ 2,594,741
Total value of output ..	£ 3,563,343	£ 1,634,248	£ 735,832	£ 397,258	£ 358,463	£ 171,724	£ 6,860,868
Value of production ..	£ 2,159,459	£ 910,657	£ 479,501	£ 237,526	£ 229,701	£ 135,459	£ 4,152,303

38. Tyres, Motor and Cycle.—(i) *Details for each State, 1943-44.* The following table gives particulars of this industry for each State during 1943-44 :—

TYRES, MOTOR AND CYCLE, 1943-44.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas. (a)	Australia.
Number of factories ..	91	65	29	20	17	13	235
Number of persons engaged ..	3,293	2,388	190	111	96	82	6,160
Value of land and buildings ..	£ 689,646	£ 512,170	£ 70,971	£ 42,649	£ 37,624	£ 30,311	£ 1,383,371
Value of plant and machinery ..	£ 409,713	£ 528,910	£ 20,588	£ 12,522	£ 10,154	£ 7,527	£ 989,414
Wages paid ..	£ 1,047,664	£ 806,916	£ 38,498	£ 24,661	£ 22,393	£ 14,191	£ 1,954,323
Value of fuel used ..	£ 123,163	£ 132,344	£ 6,257	£ 2,667	£ 3,251	£ 1,977	£ 269,659
Value of materials used ..	£ 3,264,102	£ 3,144,914	£ 106,568	£ 52,595	£ 44,265	£ 25,441	£ 6,577,885
Total value of output ..	£ 4,682,213	£ 4,804,961	£ 207,208	£ 103,976	£ 93,708	£ 61,668	£ 9,953,734
Value of production ..	£ 1,354,948	£ 1,527,703	£ 94,383	£ 48,714	£ 46,192	£ 34,250	£ 3,106,190

(a) Includes Rubber Boots and Shoes and Other Rubber Goods.

(ii) *Total for Australia, 1938-39 and 1940-41 to 1943-44.* The development of this industry since 1938-39 is shown in the following table :—

TYRES, MOTOR AND CYCLE(a) : AUSTRALIA.

Items.	1938-39.	1940-41.	1941-42.	1942-43.	1943-44.
Number of factories ..	262	242	226	219	235
Number of persons engaged ..	5,723	6,411	6,793	5,378	6,160
Value of land and buildings ..	£ 1,441,131	£ 1,446,074	£ 1,473,719	£ 1,359,890	£ 1,383,371
Value of plant and machinery ..	£ 1,174,012	£ 1,261,985	£ 1,236,924	£ 1,018,844	£ 989,414
Wages paid ..	£ 1,196,897	£ 1,441,930	£ 1,862,486	£ 1,611,469	£ 1,954,323
Value of fuel used ..	£ 210,920	£ 223,498	£ 262,595	£ 245,487	£ 269,659
Value of materials used ..	£ 3,645,799	£ 4,894,576	£ 5,865,169	£ 5,753,589	£ 6,577,885
Total value of output ..	£ 6,186,688	£ 7,585,359	£ 9,217,539	£ 8,961,763	£ 9,953,734
Value of production ..	£ 2,329,969	£ 2,467,285	£ 3,089,595	£ 2,962,687	£ 3,106,190

(a) Includes Rubber Boots and Shoes and Other Rubber Goods for Tasmania.

39. Electric Light and Power Works.—(i) *Details for each State, 1943-44.* The increased demand for electrical energy has been responsible for considerable development in electric light and power works during recent years. Since 1938-39 the production of electric light and power has increased from 4,688 to 6,656 million K.W.H., or by 42 per cent. Particulars for the year 1943-44 are as follows :—

ELECTRIC LIGHT AND POWER WORKS, 1943-44.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	102	72	48	45	102	4	373
Number of persons engaged ..	2,521	1,438	625	638	563	104	5,889
Value of land and buildings ..	£ 4,125,958	£ 2,144,474	£ 596,591	£ 665,869	£ 454,827	£ 505,449	£ 8,493,168
Value of plant and machinery ..	£ 11,277,284	£ 8,394,568	£ 1,927,377	£ 2,617,428	£ 2,158,803	£ 2,874,825	£ 29,250,535
Wages paid ..	£ 985,142	£ 594,145	£ 226,609	£ 205,239	£ 189,403	£ 34,974	£ 2,235,512
Value of fuel used ..	£ 2,412,047	£ 1,231,380	£ 653,128	£ 591,915	£ 729,413	..	£ 5,617,883
Value of materials used ..	£ 411,219	£ 105,196	£ 70,114	£ 74,339	£ 35,977	£ 13,865	£ 716,710
Total value of output ..	£ 8,208,762	£ 3,779,763	£ 1,565,551	£ 1,493,733	£ 1,323,976	£ 141,380	£ 16,513,165
Value of production ..	£ 5,385,496	£ 2,443,187	£ 836,309	£ 827,419	£ 558,646	£ 127,515	£ 10,178,572

Particulars of the types of engines and generators installed in Electric Light and Power Works and their rated horse-power are given on p. 913.

(ii) *Production, 1938-39 and 1940-41 to 1943-44* 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 : PRODUCTION.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
	'000 K.W.H.	'000 K.W.H.	'000 K.W.H.	'000 K.W.H.	'000 K.W.H.	'000 K.W.H.	'000 K.W.H.
1938-39 ..	1,943,490	1,222,505	387,368	256,283	307,002	566,691	4,688,339
1940-41 ..	2,405,118	1,550,169	456,715	304,372	353,369	669,970	5,739,713
1941-42 ..	2,656,244	1,684,562	481,189	385,041	347,009	726,475	6,280,520
1942-43 ..	2,844,181	1,812,766	515,254	417,873	317,338	771,282	6,678,694
1943-44 ..	2,826,132	1,757,563	563,489	393,794	313,261	801,945	6,656,184

40. *Gas-works.*—(i) *Details for each State, 1943-44.* Gas-works are in operation in the majority of important towns in Australia. New South Wales returned eight coke factories and Queensland two, working as separate industries, but under the present classification these are included in Class I.—Treatment of Non-metalliferous Mine and Quarry Products. The following table gives particulars of gas-works in each State for the year 1943-44:—

GAS-WORKS, 1943-44.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	42	39	16	4	4	2	107
Number of persons engaged ..	1,185	1,109	308	373	154	52	3,181
Value of land and buildings £	803,116	438,037	187,770	25,340	(a)	(a)	b1,561,025
Value of plant and machinery £	3,191,816	3,223,975	579,331	1,108,530	(c)	(a)	b8,532,815
Wages paid ..	420,682	379,566	105,232	125,168	(a)	(a)	b1,098,904
Value of fuel used ..	325,232	36,338	75,29	2,495	(a)	(a)	b 401,067
Value of materials used ..	1,449,844	1,470,004	283,383	300,740	(c)	(a)	b3,725,871
Total value of output ..	3,577,340	3,299,945	686,832	490,280	(a)	(a)	b7,454,649
Value of production ..	1,802,264	793,603	395,920	187,045	(a)	(a)	b3,327,711

(a) Not available for publication.

(b) Includes particulars for States marked (a).

(ii) *Coal Used and Production, 1943-44.* The following table gives details for 1943-44:—

GAS-WORKS : COAL USED AND PRODUCTION, 1943-44.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
COAL USED.							
Coal tons	754,344	590,894	144,681	117,818	(a)	(a)	b1,665,212
PRODUCTS.							
Gas produced '000 cubic ft.	14,558,126	10,119,016	2,215,894	1,774,236	(a)	(a)	b29,957,772
Gas sold '000 cubic ft.	12,890,475	9,281,751	1,993,233	1,548,071	(a)	(a)	b26,842,130
Coke produced tons	481,511	328,821	81,170	117,172	(a)	(a)	(b) 992,898
Coke for sale tons	290,048	205,456	42,311	46,951	(a)	(a)	(b) 595,085
VALUE.							
Gas sold £	2,520,784	2,628,778	801,256	676,338	(a)	(a)	b 7,051,220
Coke for sale £	367,314	415,932	52,744	127,044	(a)	(a)	(b) 595,085

(a) Not available for publication.

(b) Includes particulars for States marked (a).

Since 1938-39, when the output of gas was 21 thousand million cubic feet, production has increased each year and reached almost 30 thousand million cubic feet in 1943-44.