CHAPTER XXIV.

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 1945-46 and in the immediately preceding issue to the year 1943-44. Corresponding tables for 1944-45 may be found in the *Production Bulletin* 1944-45 No. 39, 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 shows the number of factories in each State for the four years 1942-43 to 1945-46 compared with 1938-39 :—

		. • • •		· ·			·
Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
1938-39	9,464	9,250	3,087	2,067	2,120	011	26.941
1930-39	10,110	8,738	2,641	2,134	1,709	944 992	26,414
19.13-44	10,755	9,317	2,652	2,149.	1.807	994	27.674
1944-45	11,359	9,669	2,783	2,182	1,931	1,006	28,930
1945-46	12,287	10,195	2,945	2,395	2,280	1,082	31,184

FACTORIES : NUMBER.

2. Number of Factories in Industrial Classes.—(i) Australia. The next table shows the number of factories in Australia during 1938-39 and the years 1942-43 to 1945-46 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 This classification, which was introduced during 1930-31, superseded the grouping which had been in use since 1902.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 1930. Statisticians in 1902 is, however, still used. Details of 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.	1942-43.	1943-44.	1944-45.	1945-46
T. Desetweet of Non-metalliferous Mine and Ouerm				i	
I. Treatment of Non-metalliferous Mine and Quarry Products	564	412	417	458	591
II Detalus D theme Olega ata	471	322	289	318	.170
III. Chemicals, Dycs, Explosives, Paints, Oils and	1 1/1	3	209	3.0	
0	666	770	816	862	i 886
IV. Industrial Metals, Machines, Implements and		110	0.0		000
Conveyances	7,255	7,306	7,788	8,173	8,816
V. Precious Metals, Jewellery and Plate	200	262	258	267	337
VI. Textiles and Textile Goods	611	785	821	865	883
VII. Skins and Leather	533	529	563	581	651
VIII. Clothing	4,314	4,201	4,462	4.773	5,215
IX. Food. Drink and Tobacco	5,202	5,179	5,457	5,664	5,865
X. Woodworking and Basketware	2,822	2,689	2,799	2,873	3,148
X1. Furniture, Bedding, etc.	1,149	933	917	959	1,140
XII. Paper. Stationery, Printing, Bookbinding, etc.	1,816	1,681	1,673	1,688	1,703
XIII. Rubber	299	260	275	286	308
XIV. Musical Instruments	34	35	35	37	41
XV. Miscellaneous Products	413	576	624	650	714
Total, Classes I, to XV.	26,439			28,454	
		25,940	27,194		30,708
XVI. Heat, Light and Power	502	474	480	476	476
Grand Total	26,941	26,414	27.674	28,930	31,184

Although not the best index of manufacturing activity, the number of factorics 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. In 1943-44, however, a substantial increase occurred and has continued until 1945-46 when the number of factories in Australia reached the new high level of 31, 184.

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(ii) States, 1945-46. The following table shows the number of factories in each State in 1945-46, classified according to the nature of the industry :---

Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-Metalliferous							
Mine and Quarry Products	825	178	42	68	54	24	591
II, Bricks, Pottery, Glass, etc.	194	100	32	51	23	10	410
III. Chemicals, Dycs, Explosives,			-		_		
Paints, Oils and Grease	445	272	44	65	41	19	886
IV. Industrial Metals, Machines, Im-		-		-		-	
plements and Conveyances	3,530	2,934	773	661	688	230	8,816
V. Precious Metals, Jewellery and				1		-	
Plate	126	125	22	30	29	5	337
VI. Textiles and Textile Goods	290	490	23	38	27	15	88
VII. Skins and Leather	307	216	49	41	28	10	651
VIII. Clothing	2,287	1,933	320	329	283	63	5,21
IX. Food, Drink and Tobacco	2.037	1,656	809	592	503	268	5,86
X. Woodworking and Basketware	1,188	819	426	183	203	329	3,148
XI. Furniture, Bedding, etc.	370	372	114	108	120	56	1,140
XII. Paper. Stationery, Printing, Book-				1		· .	
binding, etc.	686	618	147	. 115	109	28	1,70
XIII. Rubber	118	92	40	27	18	13	308
XIV. Musical Instruments	16	14	3 38	7	I	••	41
XV. Miscellaneous Products.	329	268	38	32	40	7	714
Total, Classes I. to X.V	12,148	10,087	2,882	2,347	2,167	1,077	30,708
XVI. Heat, Light and Power	139	108	63	48	113	5	476
Grand Total	12,287	10,195	2,945	2,395	2,280	1,082	31,184

FACTORIES : NUMBER IN INDUSTRIAL CLASSES, 1945-46.

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

r. General.—The classification of factories previously in use ended at the group "Over 100". This was regarded as too restricted as it did not permit of any analysis of the development of factories in size groups above 100 employees. In consultation with the State Statistical Bureaux, it was agreed to extend, in 1945-46, the classification of factories according to size in the manner shown in the table below in respect of numbers of factories and, in the table which follows, in respect of numbers employed.

Comparative details on the new basis are not available but those on the old basis are continued in par. 3 hereafter.

2. States, 1945-46.—The following table shows, for each State, the number of factories classified according to the number of persons engaged in 1945-46:—

Size of Facto (Persons engag	ry ed).	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
			NUMBER	об Гаст	ORIES.	·	·	
Under 4		3,536	3,065	753	585	996	334	9,269
4 ·· 5 to 10 ··	••	1,118 3,304	785 2,520	282 858	244 707	120 587	126 345	2,675 8,321
11 to 20 .		1,803	1,584	469	328	242	128 JAD	4,554
21 to 50	••	1,490	1,286	326	322	218	86	3,728
51 to 100	••	518	490	123	108	75	38	1,352
101 to 200 201 to 300	•••	282 85	247 101	96 19	58 19	32	15	730 232
301 to 400		43	46	3	5	··· '	3	100
401 to 500	••	26	22	5	2	I		56
301 to 750 ·	••	41	27	5	8	I	4	86
751 to 1,00 0 Over 1,000	••	13 28	10 12	3	1 8	I	2	27 54
Total	••	12,287	10,195	2,945	2,395	2,280	1,082	31,184

FACTORIES : CLASSIFICATION ACCORDING TO SIZE OF FACTORY, 1945-46.

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, 1945-46.

Size of Factory (Persons engaged).	N.8.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
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<u></u>	·		1	1				1
Under 4		7,302	6,045	1,611	1,259	2,009	756	18,982
4		4,472	3,140	1,128	976	480	504	10,700
5 to 10	••	22,902	17,633	5,908	4,916	3,918	2,366	57,643
11 to 20	••	26,395	23,501	6,894	4,801	3,485	1,841	66,917
21 to 50		46,458	40,778	10,078	10,252	7.007	2,704	117,277
51 to 100		36,155	34,309	8,648	7,444	5,253	2,695	94,504
101 to 200		38,628	34,533	13,930	8,316	4,3 ⁸ 7	2,079	101,873
201 to 300	••	20,736	. 24,624	4,589	4,440	1,606	296	56,291
301 to 400		14,572	15,728	972	1,662		1,061	33,995
401 to 500		11,796	9,955	2,279	930	448	•• ·	25,408
501 to 750	••	25,248	16,130	2,943	4,57I	694	2,762	52,348
751 to 1,000	••	11,535	8,547	2,469	772	••	••	23,323
Över 1,000	••	49,575	22,870	5,082	14,498	2,119	3,156	97,300
Total		315,774	257.793	66,531	64,837	31,406	20,220	756,561
Average per Fa		25.70	25.29	22.59	27.07	13.77	18.69	24.26

AVERAGE NUMBER ENGAGED DURING PERIOD WORKED.

3. Australia, 1938-39 and 1942-43 to 1945-46.—In the following table factories in Australia during 1938-39 and each of the four years 1942-43 to 1945-46 are classified according to the number of persons engaged in conformity with the practice prior to 1945-46.

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

		Estal	olishments	Employ	ing on th	e Averag	e—	
Year.	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.	Person en- gaged.
1938-39-				1				
Number	21,982	129,505	4,013	170,971	946	272,022	26,941	572,498
Average per establishment	<u> </u>	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
1942-43- Number	21,032	123,039	4,104	173,187	1,278	469.175	26.414	765,401
Average per establishment	21,032	5.85	4,104	42.20	1,1/0	367.12	20,414	28.98
Percentage on total	79.62	16.08	15.54	22.63	4.84	61.29	100.00	100.00
1943-44-						1 -		
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
1944-45								
Number	23,059	137,153	4,579	193.359	1,292	427,002	28,930	757.514
Average per establishment		5.95	15.83	42.23	4.47	330.50	100.00	26.18
Percentage on total	79.70	10.11	13.03	-3.52	4.4/	35.37	100.00	100.00
1945-46— Number	24,819	154,242	5,080	211.781	1,285	390,538	31,184	756,561
Average per establishment		6.21	,,	41.69		303.92		24.26
Percentage on total	79.59	20.39	16.29	27.99	4.12	51.62	100.00	100.00
· ·			1		1			

§ 3. Power Equipment in Factories.

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

In para. 2 below, 1,125 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, 17; Chemicals, Drugs and Medicines, 22; Galvanized Ironworking, Tinsmithing, 34; Ready-made Tailoring and Clothing, 306; Dressmaking, 105; Millinery, 36; Bakeries, 145; Cabinet and Furniture Making, 20; all other industries, 440.

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 1945-46 :—

		Numbe	r of Esta blishn	Rated Horse-power of Engines.			
State.	· !	Using Power.	Others.	Total.	Ordinarily in use.	In Reserve or Idle (omit- ting obsolete).	
		No.	No.	No.	H.P	H.P.	
New South Wales		12,016	271	12,287	952,325	112,018	
Victoria	!	9,851	344	10,195	654,026	99.005	
Queensland		2,807	138	2,945	~ 241,809	27,226	
South Australia	• • `	2,234	161	2,305	187,144	28,605	
Western Australia		2,102	178	2,280	86,337	7,531	
Tasmania		1,049	33	1,082	89,792	11,221	
Australia		30,059	1,125	31,184	2,211,433	286,506	

(a) Excludes Central Electric Stations.

3. Rated Horse-power of Engines Ordinarily in Use.—(i) According to Type, 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, 1945-46.

			Rateo	I Horse-D	ower of E	ngines ord	linarily in	use.		1
State.	Steam.		Intern	Internal Combustion.			Motors driven by electricity.		Total.	
		Recipro- cating.	Turbine.	Gas.	Light Oils.	Heavy Oils.	Water.	Pur- chased.	Own Genera- tion. (c)	(b)
		Н.Р.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
N.S.W.	÷.	104,638	56,812	3,221	6,489	14,057	141	766,967		952,325
Victoria		29.543	37,725	3,501	4.799	10,392	1,389	566,677		654,026
Queensland	••	80.748	15,068	7,459	3.819	14,842	1	119,873		241,809
5. Australia		9,073	6,010	3,953	2,991	7,756	15	157.346	16.989	187,144
W. Australia		9,169	80	2,281	2,059	7,716	·	65,032		86,337
Tasmania	••	3,207	2,04 I	66	3,719	1,426	192	79,141	11,730	89,792
Australia		236,378	117,736	20,481	23,876	56,189	1,737	1,755,036	226,692	2,211,433

(a) Excludes Central Electric Stations.

(b) Excludes particulars in column (c).

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POWER EQUIPMENT IN FACTORIES.

(ii) According to Type, Australia. In the following table details of the horse-power of the various types of engines in use are given for Australia for the years 1942-43 to 1945-46 compared with 1938-39.

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

			Rate	d Horse-1	ower of I	Engines or	dinarily in	n use.		
Year.	Year.		Internal Combustion.				Motors d electr	Total.		
		Recipro- cating.	Turbine.	Gas.	Light Oils.	Heavy Oils.	Water.	fur-	Own Genera tion. (r)	(6)
1938–39 1942–43 1943–44 1944–45 1945–46	 	H.P. 268,409 246,661 244,042 239,319 236,378	H.P. 84,149 123,967 121,570 118,438 117,736	H.P. 32,914 21,898 20,318 21,280 20,481	H.P. 17,970 18,079 19,500 21,407 23,876	H.P. 55.800 56.669 56.693 57.012 56.189	H.P. 1.616 1,749 1,621 1,581 1,737	H.P 1,017.011 1,509,186 1.602,264 1,673,348 1,755,036	190,991	H.P. 1.478.769 1,978.509 2,066,008 2,132,385 2,211,433

(a) Excludes Central Electric Stations.

(b) Excludes particulars in column (c).

(iii) In Classes of Industry, 1945-46. The next table shows the rated horse-power of engines ordinarily in use in the various classes of industry in each State during 1945-46.

FACTORIES(a): RATED HORSE-POWER OF ENGINES ORDINARILY IN USE, 1945-46.

Class of Industry.	N.S.W.	Vic.	Q'land.	S.Aust.	W.Aust.	Tas.	Aust.
	н.р.	Н.Р.	H.P.	H.P.	н.р.	H,P.	H.P.
I. Treatment of Non-m			ł .	1	{		
ferous Mine and C Products	1, 41,600	34,512	8,167	6,556	5,205	9,294	105,334
II. Bricks, Pottery, Glass, e		18,496	3,914	4,576	2,776	278	59,063
III. Chemicals, Dyes, Expl			5,9-4	4,570	-,,,,,	//0	39,003
Paints, Oils and Grea		59,587	3,991	23,036	7,607	536	140,520
IV. Industrial Metals, Mac						•••	1-10-1
Implements and	Con-	1		1 _			
veyances	483,189	180,632	53,523	77,248	22,367	19,450	836,409
V. Precious Metals, Jew			0		- 0-		1
and Plate VI. Textiles and Textile Go	1,031	2,351	158	498	189	14	5,141
VII. Skins and Leather		60,923 12,678	3,300 3,126	5,688	1,216	4,231	107,051
VIII. Clothing	12,551	16.232	1.577	1.708	I,434 I,005	586 314	33,125
IX. Food, Drink and Tobac		112,445	117,287	34,664	24,370	9,397	34.949 428,210
	asket-	,445		34,004	~4,3/0	9,397	420,219
ware	67.019	52,344	35,474	14,643	13,396	14,962	197.838
XI. Furniture, Pedding, etc.		8,576	3,614	3,679	2,275	976	29,435
XII. Paper, Stationery, Pri			-			•	
Bookbinding, etc.	34.707	48,264	5,002	7,860	3,082	28,660	127.575
XIII. Rubber	28,505	29,414	1,312	837	134	163	60,365
XIV. Musical Instruments	826	65	15	15		•• •	921
X.V. Miscellaneous Products	9,595	10,144	272	699	449	276	21,435
Total, Classes I. to XV.	940,386	646,663	240,732	184,457	85,505	89,637	2,187,380
XVI. Gas Works	11,939	7,363	1,077	2,687	832	155	24,053
			• -		-		
Grand Total	952,325	654,026	241,809	187,144	86,337	89,792	2,211,433

(a) Excludes Central Electric Stations.

CHAPTER XXIV.-MANUFACTURING INDUSTRY.

4. Caracity of Engines and Generators installed in Central Electric Stations.-(i) According to Type, Australia. Particulars of the type and the capacity of engines and generators installed in Central Electric Stations in Australia in 1945-46 are given in the following table:--

		Capacity of Engines and Generators.								
Particulars.	St	Steam.		al Comb						
	Recipro- cating.	Turbine.	Gas. Light Oils.		Heavy Oils.	Water.	Total.			
Engines installed— Total installed Rated H.P. Generators installed—	25,682	2,268,641	22,034	3,076	159,456	365,007	2,843,896			
Kilowatt capacity Total installed K.W. Effective capacity " Maximum load "	16,792 16,000 13,027	1,644,448 1,368,068 1,114,273	14,814 12,743 10,138	1,968 1,801 1,481	106,186 95,864 70,819	268,518 236,824 213,938	2,052,726 1,731,300 1,423,676			
Horse-power equivalent — Total installed H.P. Effective capacity ,, Maximum load ,,	22,510 21,449 17,463	2,204,465 1.833,964 1,493,739	19,859 17,083 13,591	2,638 2,414 1,985	142,348 128,510 91,936	359,962 317,474 286,795	2,751,782 2,320,894 1,908, 509			

CENTRAL ELECTRIC STATIONS: POWER EQUIPMENT, AUSTRALIA, 1945-46.

(ii) States. Details of the capacity of engines and generators installed in Central Electric Stations in each State in 1945-46 are given in the next table.

	N.S.W.	Vic.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
d H.P.	1,203,094	740,178	289,886	200,398	156,930	253,410	2,843,896
					Í		
	1			}	1	ł	1
K.W.	899,201	513.833	196.587	142,461	113.019	187.625	2,052,726
	782,492	409.855	1 39.4 36	111.776	100,000	156.742	1,731,300
**	483,145	468,410	125,436	130,970	80,816	134,899	1,423,676
-							
H.P.	1.205.424	688.810	263.534	190.976	151.508	251.521	2.751.782
							2,320,894
**	047.680	627.027	168,153	175,572	108,338	180,839	1,908,500
	к.w. " н.р.	d H.P. 1,203,094 K.W. 899,201 ,, 782,492 ,, 483,145 H.P. 1,205,424 ,, 1,048,070	d H.P. 1,203,094 740,178 K.W. 899,201 513.833 ,, 782,492 407.855 ,, 483,145 468,410 H.P. 1,205,424 688,819 ,, 1,048,670 549.431	d H.P. 1,203,094 740,178 289,886 K.W. 899,201 513,833 196,587 ,, 782,492 407,855 139,436 ,, 483,145 468,410 125,436 H.P. 1,205,424 688,819 263,534 ,, 1,048,070 549,431 186,921	d H.P. 1,203,094 740,178 289,886 200,398 K.W. 899,201 513,833 196,587 142,461 " 782,492 407,855 139,436 141,776 " 483,145 468,410 125,436 130,970 H.P. 1,205,424 688,819 263,534 190,976 " 1,048,070 549,431 186,021 190,976	d H.P. 1,203,094 740,178 289,886 200,398 156,930 K.W. 899,201 513,833 196,587 142,461 113,019 ", 782,492 407,855 139,436 141,776 100,999 ", 483,145 468,410 125,436 130,970 80,816 H.P. 1,205,424 688,819 263,534 190,976 151,508 ", 1,048,070 549,431 186,921 190,976 151,508	d H.P. 1,203,094 740,178 289,886 200,398 156,930 253,410 K.W. 899,201 \$13,833 196,587 142,461 113,019 187,625 " 782,492 407.855 139,436 141,776 100,999 156,742 " 483,145 468,410 125,436 130,970 80,816 134,899 H.P. 1,205,424 688,819 263,534 190,976 151,508 251,521 " 1,048,970 549,431 186,021 190,058 135,394 210,120

CENTRAL ELECTRIC STATIONS: POWER EQUIPMENT, 1945-46.

§ 4. Employment in Factories.

1. Number Engaged.-(1) 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, carbers engaged solely on outward delivery of manufactured goods and retailing stcremen. Prior to 1945-46 the classification of employment distinguished between (i) working proprietors; (ii) managers and overseers; (iii) accountants and clerks; (iv) enginedrivers and firemen; (v) workers. skilled and unskilled; (vi) carters and messengers; and (vii) others. This grouping, however, did not make adequate provision for measuring the development that has taken place in the employment of chemists and other research workers. As a result, the classification of factory employment was amended in 1945-46 to read as follows :-- (i) Working proprietors; (ii) managerial and clerical staff including salaried managers and working directors; (iii) chemists, draftsmen and other laboratory and research staff; (iv) foremen and overseers; (v) skilled and unskilled workers; (vi) carters (excluding delivery only), messengers and persons working regularly at home for factory, mill or workshop.

EMPLOYMENT IN FACTORIES.

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 $\frac{2}{5}$ 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, 1936-37 to 1945-46. Particulars of the number employed, the increase in employment and the rate per cent. of such increase are given for years 1936-37 to 1945-46 in the following table :---

		Males.		Females.			Persons.			
				Number Em-	Increase on Previous Year.		Number Em-	Increase on Previous Year.		
	ployed.	Number.	Per cent.	ployed.	Number.	Per cent.	ployed.	Number.	Per cent.	
::	381,412 408,602	24,858	,6.97 7.13	142,536 150.558	6.319 8,022	4.64 5.63	523,948 559,160	31.177 35,212	6.33 6.72	
	412,591 426,934 473,058	3.989 14,343 46,124	0.98 3.48 10.80	152.515 160.729 177,015	1.957 8,214 16,286	1.30 5.39 10.13	505.106 587.663 650,073	5,946 22,557 62,410	1.06 3.09 10.62	
 	524,383 535.570 539,141 535.803 548.888	51.325 11.187 3,571 -3.248 12.005	$ \begin{array}{c} 10.85 \\ 2.13 \\ 0.67 \\ -0.60 \\ 2.42 \end{array} $	200.959 223.475 227.365 214,686 196.370	23.944 22.516 3,890 -12.679 -18,316	13.53 11.20 1.74 -5.58 -8.53	725,342 759,045 766,506 750,579 745,258	75,269 33.703 7,461 -15.927 -5,321	11.58 4.65 0.98 -2.08 -0.71	
	· · · · · · · · · · · · · · · · · · ·		Number Ent- ployed. Number. 	Number Emi- ployed. Increase on Previous Year.	Number Ent- ployed. Increase on Previous Year. Number Em- ployed.	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	

FACTORIES : EMPLOYMENT, AUSTRALIA.

NOTE .- Minus sign (-) indicates decrease.

(iii) States, 1938-39 and 1942-43 to 1945-46. The following table shows, for each of the years 1938-39 and 1942-43 to 1945-46 (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.

Year.		N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
	A	VERACE N	UMBER EN	JAGED DUF	AING FULL	YEAR (52	WEEKS).	· · · · · · · · · · · · · · · · · · ·
1938–39 1942–43 1943–44 1944–45 1945–46	••• •• ••	228,781 315,524 323,032 314,678 310,870	201,831 262,358 261,331 257,637 256,249	54,110 64,292 64,682 64,135 65,460	43,371 72,748 69,569 65,472 63,188	23,211 25,813 28,101 29,146 30,256	13.802 18,310 19,791 19,511 19,235	565,106 759,045 766,506 750,579 745,258
			PERCENTA	GE ON AU	STRALIAN	Total.	·	·
1938–39 1942–43 1943–44 1944–45 1945–46		% 40.48 41.58 42.14 41.93 41.72	% 35.72 34.56 34.09 34.33 34.38	% 9.58 8.47 8.44 8.54 8.78	% 7.67 9.58 9.08 8.72 8.48	% 4,11 3.40 3.67 3.88 4.06	% 2.44 2.41 2.58 2.60 2.58	% 100.00 100.00 100.00 100.00 100.00

FACTORIES : EMPLOYMENT.

40		

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
	 <u> </u>	PEB 10	0,000 OF P	OPULATI OI	N.		
1942-43 1943-44 1944-45	 837 1,116 1,133 1,092 1,067	1,076 1,332 1,316 1,286 1,268	537 617 612 599 603	730 1,188 1,125 1,048 999	502 538 583 598 615	583 759 812 792 771	816 1,055 1,056 1,023 1,005

FACTORIES : EMPLOYMENT—continued.

2. Rates of Increase, 1938-39 and 1942-43 to 1945-46.—The percentage increase on the average number of persons engaged in the preceding year is shown below for each State for 1938-39 and 1942-43 to 1945-46.

FACTORIES : ANNUAL PERCENTAGE INCREASE OF PERSONS ENGAGED.

Year.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia
1938-39 1942-43 1943-44	 % 1.74 5.79 2.38	% 0.02 1.53 -0.39	% 3.82 3.85 0.61	% -1.62 11:49 -4.37	% 0.34 7.64 8.86	% 4.80 4.29 8.09	% 1.06 4.65 0.98
1944-45 1945-46	 -2.59 -1.21	-1.41 -0.54	-0.85 2.07	-5.89 -3.49	3.72 3.81	-1.4I -1.4I	-2.08 -0.71

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

3. Persons Engaged in Classes of Industry.—(i) Australia. The following table shows the average number of persons engaged in factories under each industrial group in Australia for the years 1938-39 and 1942-43 to 1945-46.

FACTORIES :	PERSONS	ENGAGED	IN	INDUSTRIAL	CI	ASSES,	AUSTRALIA.
-------------	---------	---------	----	------------	----	--------	------------

Class of Industry.	1938-39.	1942-43.	1943-44.	1944-45.	1945-46
I. Treatment of Non-metalliferous Mine					
and Quarry Products	10,343	8,001	7,701	7,933	9,929
II. Bricks, Pottery, Glass, etc.	15,709	10,428	9,616	10,459	13,46
III. Chemicals, Dyes, Explosives, Paints,					
Oils and Grease	19,816	54,101	42,551	36,340	31,47
IV. Industrial Metals, Machines, Imple-					
ments and Conveyances.	177.677	328,142	341,030	319,314	292,47
V. Precious Metals, Jewellery and Plate	3.726	2,358	2.373	2,397	3,240
VI. Textiles and Textile Goods	46,082	58.661	58,539	57,204	55,008
VII. Skins and Leather	10,767	12,056	12.708	12,474	14.49
VIII. Clothing	86.092	80.573	80.692	86,391	93.370
IX. Food, Drink and Tobacco	83,816	96,4;8	101,630	105,194	105.878
X. Woodworking and Basketware	30,739	33,658	34.827	35,382	38,340
XI. Furniture, Bedding, etc	15,287	10,216	9,563	9,930	13,107
XII. Paper. StatioLory, Printing, Book-					
binding, etc.	39.913	35,645	35,193	36,726	39,90
XIII. Rubber	7,502	7,178	7,061	7,970	8,690
XIV. Musical Instrument:	451	392	353	392	450
XV. Miscellaneous roducts	7.727	12,320	12,690	13,018	14,838
Total, Classes I. to XV	555,677	750.177	757.436	741,126	734,68
XVI. Heat, Light and Power	9,429	8,868	9,070	9.453	10,57
Grand Total	565,106	759,045	766,506	750,579	745,258

Following the outbreak of war in the Pacific in 1941, the transfer of man-power to the more essential industries became apparent, and industries not directly concerned with Australia's war effort showed a marked decline. The industries which declined were those in Class I., Mine and Quarry Products; Class II., Bricks, Pottery, Glass, etc.; Class V., Precious Metals; Class VIII., Clothing; Class XI., Furniture; and Class XII., Paper, etc., while industries where the war-time expansion in employment occurred were those in Class III, Chemicals, etc.; Class IV., Metals, etc.; Class VI., Textiles; .Class VI., Skins and Leather; and Class IX., Food.

Following the cessation of hostilities in 1945 and the relaxation of man-power control which permitted movement of employees between industries, Class III., Chemicals, etc.; Class IV., Metals, etc.; and Class VI., Textiles recorded lower levels of employment in 1945-46 while in each other class of industry a higher level of employment was recorded.

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

Class of Industry.	NS.W.	Vic.	Q'land.	S. Aust.	W.Aust.	Tas.	Aust.
			· · · ·				
I. Treatment of Non-metalli- ferous Mine and Quarry]			
Products	4,376	2,659	889	888	670	447	9,929
II. Bricks. Pottery, Glass, etc	7,466	3,574	615	1,168	517	126	13,466
II. Chemicals, Dycs, Explosives,	7,400	5,574	0.5	-,	,		-3,400
Paints, Oils and Grease	13,164	11,961	955	3,845	1,396	150	31,471
IV. Industrial Metals, Machines,	1 13,104	11,901	933	3,043	-1390	1.00	31,471
Implements and Convey-	1						1
ances	136,602	88,421	21,617	29,395	10,869	5,573	292,477
V. Procious Metals, Jewellery	130,002	00,4*1	21,017	-9,395	10,009	3,373	~9~,4//
and Plate	1.110	1,602	165	238	100	16	3,240
VI. Textiles and Textile Goods	18.341	29,889	1,297	2,334	740	2,407	55,008
VII. Skins and Leather	6,385	4,884	1.168	1,323	526	206	14,492
VIII. Clothing	37.651	38.552	6.614	6,111	3,568	874	93.370
1X. Food, Drink and Tobacco	35,474	33,611	17.825	9.244	5.189	4.335	105.878
X. Woodworking and Basketware	13.499	10,139	6,967	2,571	2,819	2,351	38,346
XI. Furniture, Bedding, etc	4.937		1,697	1,386	872	. 441	13,197
XII. Paper, Stationery, Printing,	4.907		-,-,,	-,3-0			- 3,,
Bookbinding, etc.	16,959	13.723	3,349	2,583	1,515	1,776	39,905
XIII. Rubber	3.940	3,644	535	283	135	II2	8,699
XIV. Musical Instruments	311	83	23	37	5		459
XV. Miscellaneous Products	6,407	6,570	596	580	446	239	. 14,838
		-137-		J			
Total, Classes I, to XV.	306,722	253,236	64,312	61,986	29,376	19.053	734,68
XVI. Heat, Light and Power	4,148	3,013	1,148	1,202	880	182	10,573
Grand Total	310,870	256,249	65,460	63,188	30,256	19,235	745,25

FACTORIES : PERSONS ENGAGED IN INDUSTRIAL CLASSES, 1945-46.

4. Persons Engaged According to Grade of Employment.—(i) General. In the following table the average number of persons engaged in the States during 1945-46 are classified on the new basis according to the grade of their employment. Persons employed in factories are now classified on a basis different from that adopted prior to 1945-46. The nature of this change is indicated in § 4 (i).

PERSONS ENGAGED : GRADE OF EMPLOYMENT, 1945-46.

Average Number of Persons Engaged.

State	Working Pro- prictors.	Manager- ial and Cierical Stoff, etc.(a)	Chemists, Drafts- men, etc.	Foremen and Overseers.	Workers in Factory (Skilled and Un- skilled).	Carters (excluding Deliverv only) and Messen- gers. etc. (b)	Total.
New South Wales Victoria Queensland South Australia Western Australia Tasmania	9,414 8,089 2,261 1,695 1,379 682	31,616 24,236 6,064 6,441 2,445 1,767	3.873 3,255 396 737 181 240	10,577 9,439 1,838 2,216 941 638	253,145 208,725 54,119 51,744 25,092 15,757	2,245 2,505 782 355 218 151	310,870 256,249 65,460 63,188 30,256 19,235
Australia	23,520	72,569	8,682	25,649	608,582	6,256	745,258

(a) Including salaried managers and working directors, at home.

(b) Including persons working regularly

CHAPTER XXIV .--- MANUFACTURING INDUSTRY.

(ii) Outworkers. The term "outworker" or "homeworker" has acquired a specia 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 1941-42 to 1944-45. Owing to the altered classification of employment adopted in 1945-46, persons working regularly at home for factories are now included with carters and messengers and separate details of the numbers of homeworkers are no longer available.

Year.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
1938-39 1941-42 1942-43 1943-44 1944-45	 201 469 534 531 599	120 101 196 289 389	6 10 5 4 7	11 17 17 19 29	7 4 12 12 18	11 11 8 7 7	356 702 772 862 1,049

F	'A	C	Т	0	R	I	ES	::	0	U	T١	W	0	R	K	TE:	ŀ	٢S	.(a)

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

5. Monthly Employment. 1938-39 and 1943-44 to 1946-47.—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 1943-44 to 1946-47.

FACTORIES :	MONTHLY	EMPLOYMENT,	AUSTRALIA.

Mo	onth.		193839.	1943-44.	1944-45.	1945-46.	1946-4 7 .
			N	IALES.			
July	••		387,693	518,181	518,841	518,734	571,662
August	••	•••	389,979	519,135	518,672	519,122	579.354
September	••		391,576	519.747	517,013	511,909	583,281
October			393,977	520,687	516,152	505.753	584,007
November]	395,192	519,233	515,695	503.296	575,255
December	• •		394,438	520,147	515,384	489,040	564,055
January			385,742	519,367	512,269	513.396	565,550
February	••		392,056	521,480	513,880	533,761	574,034
March	••		395,146	520,558	515,455	543,347	578,469
April			391,005	518,197	514,414	547,253	580,792
May			393,609	518,178	513,232	553,980	589,070
June	••		390,973	518,176	514,501	558,428	593,202
Mean	••		391.780	519,424	515,459	524,835	578,228
			Fı	EMALES.			
July			147,282	227,382	217,633	204,705	193,337
August	••		149,294	228,134	216,491	204,150	195,225
September	••		151,159	229,206	215,491	199,331	196,271
October	••		152,473	229,104	213.686	193,587	197,480
November	••		152,806	228,373	212,604	191.689	197,874
December	••	• • •	151,165	226,958	211,507	183,899	196,748
January			141,853	223,991	207,464	184,810	193,565
February	••		151,883	223,900	210,401	188,632	198,264
March			154,854	225,144	212,206	192,699	200,737
April			152,614	222,457	209,147	192,084	199,467
May			150,693	218,648	207,556	102,215	199,341
June			148,601	217,430	206,335	192,137	199,893
Mean	••		150,390	225,060	211,710	193,328	197,350

,

	Month.			1938-39.	1943-44.	1944-45.	1945-46.	1946-47.
				Pers	ONS.			·
July	••			534,975	745,563	736,474	723.439	764,999
August	••	••		539.273	747,269	735,163	723.272	774,579
September –	••	••		542,735	748,953	732,504	711,240	779,552
October	••	••		546,450	749,791	729.838	699.340	781,487
November –	••	• •		547,998	747,606	728,209	694,9 ⁸ 5	773,129
December	••	• •		545,603	747,105	726,891	672,939	760,803
January	••	• •		527.595	743,358	719,733	698,206	759,113
February	••	• •		543,939	745,380	724.281	722,393	772.298
March	••	• •		550,000	745,702	727,661	736.046	779,206
April	••	• •		543,619	740,654	723.561	739.337	780,259
May	••			544,302	736,826	720.788	740,195	788,411
June	••	••		539.574	735,606	720,836	750,565	793,095
Mean	•••	••		542,170	744.484	727,169	718,163	775,578

FACTORIES : MONTHLY EMPLOYMENT, AUSTRALIA-continued.

6. Distribution of Employees According to Age.—(i) States. The extension of statistics of employment in factories, decided upon at the Conference of Australian Statisticians held in 1945, permits of a distribution of employees (excluding working proprietors) into seven age-groups in 1945-46 instead of three as in previous years. The particulars are collected as at June. The number employed in each age-group in June, 1946, are given below :—

FACTORIES :	DISTRIBUTION OF EMPLOYEES ACCORDING TO AGE, JUNE, 1946.	
	(Excluding Working Proprietors.)	

	Ag	e Groups.		N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
				·		MALES.	· · · · · · · ·	· · · · ·		,
Cn	der 1	6 years		2,451	3,449	1,237	829	739	311	9.016
16	yean	з	••	5,110	3,884	1,370	1,074	823	372	12,633
17	· ,,		••	6,233	4.263	1.460	1,233	882	410	14,481
τ8	,,	••	••	7,273	4,736	1,616	1,269	836	466	16,196
19	**			5,892	4.073	1,376	1,056	643	406	13,446
0	,,	••		5,581	3,880	1,235	1,012	551	398	12,657
21	**	and over	••	203,801	155,504	42,386	45,438	19,093	12,877	479,999
	7	^r otal	••	236,341	179.780	50,680	51,911	24.467	15,240	558,428
				•	F	EMALES.		·. · · ·	· · · · · · · · · · · · · · · · · · ·	<u>.</u>
Jn	der 1	6 years	•••	2,265	3,007	1,020	885	478	226	7,881
6	yean	s		4,032	3,130	815	679	552	220	9,437
7	,,	••	••	4,667	3,510	818	802	548	259	10,604
8	,,		••	5,091	3.963	856	947	558	341	11,756
9	,,		••	4,747	3,530	779	869	496	287	10,708
0	,,	· •		4.816	3,435	756	804	425	277	10,513
T	"	and over	••	56,701	54,632	6,378	8,018	2,950	2,559	131,238
	J	otal	••	82,319	75,207	11,422	13,004	6,007	4,178	192,137
					P	ERSONS.			<u> </u>	
Jn	der 1	6 years		4,716	6,456	2,257	1,714	1,217	537	16,897
6 :	yeari	3		9,142	7,014	2,185	1,753	1,375	601	22,070
7	,,	• •		10,900	7,773	2,278	2,035	1,430	669	25,085
8	,,	• •		12,364	8,699	2,472	2,216	1,394	807	27,952
9	,,		••	10,639	7,603	2,155	1,925	1,139	693	24,154
0	,,	••		10,397	7,315	1,991	1,816	976	675	23,170
ı	••	and over	••	260,502	210,136	48,764	53,456	22,943	15,436	611,237
	1	otal	••	318,660	254,996	62,102	64,915	30,474	19,418	750,565

(ii) Australia. As comparative details based on the new age grouping are not available for the years prior to 1945-46, the following table shows the age distribution in sexes for Australia in June, 1939 and 1943 to 1946 on the old basis.

		Under 16	Years.		under 21 ars.	Adu	lts.	Total.	
In Ju	ne	No.	%	No.	%	No.	%	No.	%
		1			MALES.	<u> </u>)i	
		16,109	4.12	76,418	·	298,446	76.33	200.072	100
1939	••	14,538	4.12 2.79	64,036	19.55 12.30	442,062	70.33 84.91	390,973 520,636	100
1943	••	13,114	2.53	64,990	12.54	440,072	84.93	518,176	100
1944 1945	••	11,706	2.28	66,875	12.94	435,920	84.72	514,501	100
1945 1946		9,016	1.61	69,413	12.43	479,999	85.96	558,428	100
		<u> </u>		F	EMALES	·		J	
1939	•••	15,497	10.43	56,273	37.87	76,831	51.70	148,601	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
1945		9,178	4.45	56,158	27.22	140,999	68.33	206,335	100
1946	••	7,881	4.10	53,018	27.59	131,238	68.31	192,137	100
		·			ERSONS.				
1939		31,606	5.86	132,691	24.59	375,277	69.55	539,574	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
1945	• •	20,884	2.90	123,033	17.07	576,919	80.03	720,836	100
1946		16,807	2.25	122,431	16.31	611,237	81.44	750,565	100

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

§ 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 1945-46 was one to nearly three. In Victoria the ratio of females to males during the year 1886 was about one to five. Five years later (1891) it was somewhat less, but in 1896 had increased to about one to three, and in 1945-46 was about one to two. In the remaining States the ratio in 1945-46 was roughly one female engaged to every four males. For Australia as a whole the ratio of females but by 1945-46 the ratio had declined to about the pre-war level of one female to nearly three males.

(ii) Average Number of Males and Females Engaged. The following table shows the average number of males and females engaged in factories in each State for 1938-39 and the four years 1942-43 to 1945-46 :---

State.		1938-39.	1942-43.	1012-11	1011-10	
State.		1930-39.	1942-43.	1943-44.	1944-45.	1945-46.
		N	IALES.	•		
New South Wales		167,172	223,669	226,824	223,770	227,454
Victoria		136,218	175,341	175,078	174,424	178,951
Queensland		43,941	50,325	50,822	51,483	53.587
South Australia		35,406	52,793	50,660	49,056	49,523
Western Australia		18,704	19,501	21,060	22,404	24,268
Tasmania		11,150	13,941	14,697	14,756	15,105
Australia		412,591	535,570	539,141	535,893	548,888
		Fem.	ALES.			
New South Wales		61,609	91,855	96,208	90,908	83,416
Victoria		65,613	87,017	86,253	83,213	77,298
Queensland		10,169	13,967	13,860	12,652	11,873
South Australia		7,965	19,955	18,909	16,416	13,665
Western Australia		4,507	6,312	7,041	6,742	5,988
Tasmania		2,652	4,369	5,094	4 ,755	4,130
Australia		152,515	223,475	227,365	214,686	196.370

FACTORIES : MALES AND FEMALES ENGAGED.

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 1938-39 and 1942-43 to 1945-46 :---

State.		1938-39.	1942-43.	1943-44.	1944-45.	1945-46.
•	•	1	IALES.			
New South Wales Victoria. Queensland South Australia Western Australia Tasmania	··· ·· ··	$ \begin{array}{r} & \% \\ & 1.69 \\ & 0.04 \\ & 3.79 \\ & -2.39 \\ & -0.30 \\ & 4.40 \\ \end{array} $	$ \begin{array}{c} \% \\ 3.14 \\ -0.20 \\ 1.27 \\ 5.76 \\ 3.54 \\ 4.12 \\ \end{array} $	$ \begin{array}{c} \% \\ 1.42 \\ -0.15 \\ 1.11 \\ -4.04 \\ 8.00 \\ 5.42 \\ \end{array} $	$ \begin{array}{c} $	% 1.65 2.60 4.09 0.95 8.32 2.37
Total		0.98	2.16 EMALES.	0.67	- 0.60	2.42
			· · · · · · · · · · · · · · · · · · ·	1	1	
New South Wales		1.88	12.86	4.74	-5.51	- 8.24
Victoria	• •	- 0.03	5.21	- 0.88	-3.52	- 7.11
Queensland .	• •	3.96	14.35	- 0.77	- 8.72	- 6.16
South Australia	· •	1.98	30.14	- 5.24	-13.18	-16.76
Western Australia		3.06	22.66	11.55	- 4.25	-11.18
Fasmania	••	6.51	4.85	16.59	- 6.65	-13.14
Total		1.30	11.20	I.74	- 5.58	- 8.53

ANNUAL PERCENTAGE INCREASES OF MALES AND FEMALES ENGAGED.

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 1942-43 to 1945-46 :--

Ycar.		N.8.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
1938-39 1942-43 1943-44 1944-45 1945-46	· · · · · · ·	271 244 236 246 273	208 202 203 210 232	432 360 367 . 407 451	445 265 268 209 362	415 309 299 332 495	420 319 289 310 366	271 240 237 250 280

FACTORIES : MASCULINITY(a) OF PERSONS ENGAGED.

(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.

The decrease in masculinity from 1938-39 to 1943-44 resulted from the enlistment of men in the armed services and the expansion of industry caused by the war. In many industries the younger men were released for service in the defence forces and large numbers of women were absorbed as an adjustment to the industrial effort of Australia. Following the cessation of hostilities in 1945 and the return of servicemen to civilian life, the number of females employed in factories declined and masculinity increased. In 1945-46, at 280 males per 100 females, it was slightly higher than pre-war. 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 1945-46 these industries accounted for 80.92 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 129 females to every 100 males and in Class VIII., Clothing, with 270 females per 100 males. The following tables show the average number of males and females engaged in each of these classes in 1945-46 :—

MALES AND FEMALES ENGAGED IN PARTICULAR INDUSTRIES, 1945-46.

Class.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
		MALES.			·/		
IV. Industrial Metals, etc VI. Toxtiles and Textile (boods VIII Clothing IX. Food, Drink and Tobacco All Other Classes Total	9.961 23.637	78.383 13.208 11.025 23.811 52,524 178,951	20,369 597 1,567 15,366 15,688 53,5\$7	26.725 1,121 1.527 6,803 13,347 49,523	10,178 375 803 3.095 8,837 24,268	5,323 1,071 267 2,067 5,477 15,105	262,038 23,932 25,243 76,569 161,058 548,888
		FEMALES	5.				
IV. Industrial Metals, etc VI. Textiles and Textile Goods VIII. Clothing	15.542 10.731 27.687 11.837 17,619	10,038 16,681 27.527 10,000 13,052	1,248 700 5,047 2,459 2,419	2.670 1.213 4.584 2.441 2,757	691 365 2.675 1.204 1.053	250 1,336 607 1,268 369	30,439 31,026 68,127 29,309 37,469
Total	83,416	77.298	11,873	13,665	5,988	4,130	196,370

(ii) Females Engaged in Clothing Trade. The employment of females in the several industries of Class VIII., Clothing—in which class the largest number of females are employed—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., 1945-46.

	Nev	v South W	ales.		Victoria.		C	ther State	8.
Industry.	Males,	Females,	Femi- uinity (a)	Males.	Females,	Femi- ninity. (a)	Males.	Females.	Femi- ninity (a)
Tailoring and Ready- made Clothing Waterproof and Oil-	2,319	12,848	554	1,943	6,489	334	1,280	5,168	404
skin Clothing Dressmaking, Hem-	32	171.	534	85	208	245	6	28	467
stitching	75	1.781	2,375	849	9,031	1,064	122	3.179	2,605
Millinery, . Shirts, Collars and	128	1,137	888	214	938	438	39	558	1.431
Understothing Foundation Gar-	453	4,435	979	351	2,915	830	142	1,606	1,131
ments Handkerchiefs, Tics	83	957	1,153	107	784	733	14	I44	1,029
and Scarves	90	600	667	42	223	531	1		••
Hats and Caps	581	659	113	436	254	58	28	106	379
Gloves	73	325	445	107	498	465	32	145	453
Boots and Shoes Boot and Shoe Re-	3,055	2,998	98	4,939	4,525	92	1,515	I,232	81
pairing Boot and Shoe ac-	1,430	96	7	746	25	3	636	4 ⁸	8
cessories Umbrellas and Walk-	220	125	57	96	I34	140	27	2	7
ing Sticks Dyeworks and Clean- ing (including Re- novating and	24	36	150	9	14	156	8	17	213
Repairing)	1,392	1,444	104	1,013	1,053	104	405	675	167
Other	9	75	833	88	436	495		5	(6)
Total	9,961	27.687	278	11.025	27.527	250	4.254	12,913	304

(a) Number of females per 100 males.

(b) Not applicable.

§ 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 1943 to 1946.—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, 1946 to 16,897 in June, 1946, which is most marked in all States excepting Western Australia. was probably caused by several factors, including (i) the raising of the school leaving age in New South Wales and Tasmania, (ii) fewer children available for employment owing to the decline in the birth rate which occurred about 1929, and (iii) the high tevel 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 1943 to 1946.

State.	1939.	1943.	1944.	1945.	1946.
·····		MALES.	·		
New South Wales	5,75	9 4,221	3,881	3.287	2,45
Victoria	6,16		5,031	4,607	3.449
Queensland	I,79		1,732	1,567	1,23
South Australia	1,20		1,232	1,066	820
Western Australia	70		753	763	73
Fesmania	39		485	416	31
Australia	16,10	9 14,538	13,114	11,706	9,010
	· · ·	FEMALES.	<u> </u>	1	
New South Wales	7,08	4 3.158	3,014	2,870	2,26
Victoria.			3.731	3,609	3,00
Dueensland	1,33		1,017	492	1,020
South Australia	1,05		1,020	1.017	88
Western Australia			356	338	478
fasmania	50		307	35 ²	220
Australia	15,49	7 9,897	9,445	9,178	7,881
		TOTAL.	<u> </u>	. <u> </u>	
New South Wales	12.84	3 7.379	6,895	6,157	4,716
Victoria.	11,17		8,762	8,216	6,450
Ducensland	3,12		2,749	2,559	2,25
outh Australia	2,34		2,252	2,083	1,714
Vestern Australia	1,22		1,109	1,101	1,21
fasmania	89		792	768	532
Australia	31,60	6 24,435	22,559	20,884	16,89;

FACTORIES : CHILDREN ENGAGED, JUNE.

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 in June of each of the five years 1939 and 1943 to 1946. In 1946 the percentage was highest in Western Australia and lowest in New South Wales.

				June—		
· State.		1939.	1943.	1944.	1945.	1946.
New South Wales Victoria Queensland South Australia Western Australia Tasmania	· · · · · · · · · · · · · · · · · · ·	% 5.85 5.81 6.01 5.78 5.61 6.78	% 2.35 3.43 5.35 3.81 4.79 4.75	% 2.23 3.51 4.31 3.42 4.03 4.07	% 2.04 3.32 4.14 3.33 3.84 4.09	% 1.48 2.53 3.63 2.64 3.09 2.77
Australia		5.86	3.26	3.07	2.90	2.25

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

4. Industries Employing Child Labour.—The distribution of children employed in factories in June, 1946, and the percentage on the total number employed are given in the following table according to the class of industry :—

Class of Industry.	Children I	Children Employed.		Number yed.(a)	Percentage of Children on Total Number Employed. (a)	
	Males.	Females.	Males.	Females.	Males.	Females.
I. Treatment of Non-metalliferous	No.	No.	No.	No.	%	%
Mine and Quarry Products.	91	5	10.746	300	0.85	1.28
II. Bricks, Pottery, Glass, etc.	141		14,031	1,046	1.00	2.49
III. Chemicals, Dyes, Explosives,	· ·	1				
Paints, Oils and Grease	230	213	22,932	8,141	1.00	2.62
IV. Industrial Metals, Machines,	1		_			•
Implements and Conveyances	3,796	614	264,455	26,422	I.44	2.32
V. Precious Metals, Jewellery and		1				
Plate	114	39	2,976 26,788	581	3.83	6.71
VI. Textiles and Textile Goods VII. Skins and Leather	735	1,280		30,942 3,788	2.74	4.14
WITH Observer	157 624	3,810	11,273 24,068	70.663	1.39	
TY Fred Distribury Tohanes	969	848	72,935	26.897	2.59 I.33	5.39 3.15
X. Woodworking and Basketware	620	46	35.779	1,692	1.33	2.72
XI. Furniture, Bedding, etc.	485	81	11,834	2,281	4.10	3.55
XII. Parer. Stationery. Printing.	1 405		11,034	2,201	4.10	3.33
Bookbinding, etc.	625	604	30,968	12,157	2.02	4.97
XIII, Rubber	81	20	7,906	1,645	1.02	1.22
XIV. Musical Instruments	12	3	384	102	3.13	2.94
XV. Miscellaneous Products	304	179	10,383	5,296	2.93	3.38
Total, Classes I. to XV.	8,984	7,881	547,458	192,043	1.64	4.10
XVI. Heat, Light and Power	32		10,970	94	0.29	
Grand Total	9,016	7.881	558,428	192,137	1.61	4.10

FACTORIES : CHILDREN EMPLOYED, BY CLASSES, JUNE, 1946.

(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 1945-46 was \pounds 867.647.517. of which amount \pounds 488,287,428 represented the value of the materials used, including containers, etc., tools replaced and repairs to plant and buildings, and \pounds 27.036,648 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 \pounds 352.323.441, 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 1945-46 was \pounds 205,818,733. This figure, which excludes amounts drawn by working proprietors, shows a decrease of \pounds 1,833,067 or slightly under 1 per cent. on that for the previous year.

2. Salaries and Wages Paid.—(i) In Classes of Industry, 1945-46. The amounts of salaries and wages paid in the various classes of industry in each State are shown in the following table :—

	Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
ſ.	Treatment of Non- metalliferous Mine and Quarry Pro-	£	£	£	£	£	£.	£
II.	ducts	1.363,653	815,994	269,924	260,466	166,096	119,209	2,995,342
	etc. Chemicals, Dves Ex-	2,213.130	1,002,859	163,309	314,436	136,066	34,026	3,863,826
ŗ v .	plosives, Paints, Oils and Grease Industrial Metals, Machines, Imple- ments and Con-	3,968,805	3,714,276	274,282	1,160,736	428,058	44,063	9,590,220
V.	veyances Precious Metals.	\$2,478,010	26,876,774	6,362,770	8,523,323			88,071,273
VI.	Jewellery and Plate Textiles and Textile	280,786			57,100	24,892	[/
	Goods	4,262,638	7.233.154	274.030				
VII.	Skins and Leather	1.734,110	1.471.729	340,388	363.390	141.785	60,822	
	Clothing Food, Drink and	7,316,412	8,018,580	1,113.726	1,025,849	554,190	151,800	18,210,557
	Tobaceo Woodworking and	9,736,354	9,419,282	5,405,176	2,393,615	1,438,649	1,052,475	29,445,551
	Basketware Furniture, Bedding,	3,585,682	2,715,949	1,767,616	629,089	726,577	557,020	9,981,933
	etc. Paper, Stationery, Printing, Book-	1,375,447	843,010	399,371	291,245	188,698	78,864	3,176,635
	binding, etc.	4.885,988	3,857,265	900,275	654,634	411,547	554,239	11,263,948
	Rubber	1,255,163				30,075		2,681,891
XIV.	Musical Instruments	89,232						126,550
XV.	Miscellaneous Pro- ducts	1,578,997	1,805,674	133,271	109,258	86,412	55.771	3.769,383
	Total, Classes I. to XV.	86,124,407	69,391,564	17,615.548	16,390,190	7,570,471	4,945,125	202,037,305
XVI.	Heat, Light and Power	1,523,053	1,107,650	396,418	379,578	313,343	61,386	3,781,428
	Grand Total	87,647,460	70,499,214	 18,011,966	16,769,768	7,883,814	5,006,511	205,818,733

FACTORIES : SALARIES AND WAGES PAID, 1945-46.

(ii) Totals and Averages, 1938-39 and 1942-43 to 1945-46. The following statement shows the total amount of salaries and wages paid, and the average amount paid per employee in each State, for each of the years indicated. The average wage paid is not comparable with that shown in similar tables in issues of the Official Year Book prior

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

Year.	Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia
	··	£	£	£	£	£	£	£
1938~39	Total amount paid	44,606,497	36,026,542	10,887,229	8,169,350	4.573.558	2,479,886	106,74 3,06
	Average per employee	201.77	185.64	210.78	195-57	207.90	188.31	196.3
1942~43	Total amount paid.	88,900,826	73,035.253	16,737,545	19,243,290	6,477,113	4,472,816	209,866,8.
	Average per employee					260.74		
943-44	Total amount paid	93,518,326	73,961.193	18,071,689	18,711,413	7.417,595	5,193,603	216,873,81
	A verage per employee		291.85		275.00			
944~45	Totalamount paid	89,243.041	70,560,011	17,979.827	17,246,148	7,614,243	5,008,530	207,651,80
	Average per employee		282.90	289.91	269.53	271.20	265.32	285.2
945~46	Total amount paid	87,647,460	70,499 214	18,011,966	16,769,768	7,883,814	5,006,511	205,818,73
	Average per employee							

FACTORIES : TOTAL AND AVERAGE SALARIES AND WAGES PAID.

In comparing the figures in the preceding table, regard should be paid to the nature of certain industries which are carried on to a greater extent in some States than in others. In Victoria, for instance. there is a large number of hands employed in Class VIII., Clothing, comprising a relatively high percentage of women and children. The highest average wages per employee in 1945-46 were paid in New South Wales, Queensland and Victoria in that order.

The average earnings per employee rose annually from 1938-39 to 1943-44 when the record high level of \$291 was attained as a result of war-time conditions. In 1944-45 the average dropped to £285 and remained at this level in 1945-46.

(iii) Earnings of Males and Females, 1945-46. 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 1945-46 :--

	Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia				
	Males.											
Ī,	Treatment of Non- metalliferous Mine and Quarry Pro-	£	£	£	£	£	£	£				
п,	ducts Bricks, Pottery, Glass	1,335,224	791,119					2,926,803				
	etc. Chemicals, Dyes, Ex-	2,106,839	944,413	158,553	304,587	128,800	33,598	·3,676,790				
гv.	plosives, Paints, Oils and Grease Industrial Metals, Machines, Imple-	3,286,849	3,127,920	236,071	995,839	403,896	41,045	8,091,620				
17	ments and Con- veyances	39,575,345	24.929,679	6,142,095	8,064,602	2,954,262	1,614,903	83,280,88t				
	Precious Metals, Jewellery and Plate Textiles and Textile	247,222	378,489	29,228	53,402	23,763	2,633	734,737				
VII.	Goods	2,428.585	4,298,800	168,405 319,084		102,126 128,664						
	Clothing Food, Drink and	2,759,345		391,558		204,594		6,984,363				
x.	Tobacco Woedworking and	1	7,714,343									
X I.	Basketware Furniture, Bedding, etc.	3,458,288	2,640,432 742,037									
X11.	Parer, Stationery, Printing, Book-	1,109,924	742,037	5/2,324	200,750	173,594	75,125	2,013,702				
X 111.	binding, etc Rubber	1,108.546	3.217.956 1,012,129	127.302	66,076	28,091		2,364,475				
	Musical Instruments Miscellaneous Pro-	74,835	_					111,505				
	ducts		1,371,748 55.670.317					2,856,780				
XVI.	Heat, Light and Power	1,513,464	1,102,456	395.960	378,389	312,556	60,426	3,763.251				
	Grand Total	173,380,046	50,772,773	10,177,000	14,054,533	7,037,530	4,353,562	172,376,050				

SALARIES AND WAGES : MALE AND FEMALE FACTORY EMPLOYEES, 1945-46.

NSW Victoria Oland S Aust W Aust Tog Anstralia

SALARIES AND WAGES AND PRODUCTION.

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Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Таз.	Australia.
	·	Fen	IALES.		, <u> </u>		· <u>·</u> ···
L. Treatment of Non- metalliferous Mine	£	£	£	£	£	£	£
and Quarry Pro- ducts II. Bricks. Pottery, Glass,	28,429	24,875	4,908	5,652	3,164	1,509	68,537
etc. III. Chemicals, Dyes, Ex-	106,291	58,446	4,756	₂ 9,8 49	7,266	428	187,036
p'osives, Paints, Oils and Grease IV. Industrial Metals. Machines, Imple-	681,956	586,356	38,211	164,897	24,162	3,018	1,498,600
ments and Con- veyances V. Precions Metals.	2,902.665	1,947,095	220,675	458,721	120,446	40,785	5,690,387
Jewellery and Plate VI. Textiles and Textile	33,564	55,128	3,247	3,698	1,129	130	96,896
Goods	1,831.053	2,934,354	105.625	221,103	59.513	225,409	5,380,052
VII. Skins and Leather	341.315		21,301	39,375	13,121	2,056	
VIII Clothing IX. Food, Drink and	4.557,067						
Tobacco X. Woodworking and	2,029,670			- / .	• •		
Basketware XI. Furniture, Bedding, etc.	127,394				-		287,924 362,873
XII. Paper, Stationery, Printing, Book-	185,523	100,973	27,047	30,487	15,104	3,739	302,073
binding, etc.	876.852	639.307	167.287	111,819	56,575	42,962	1,894.804
XIII. Rubber	146.617				1,984	1,242	
XIV. Musical Instruments XV. Miscellaneous Pro-	14.397			426			15,045
ducts	392.032	433.926	34,050	23,062	15,485	14,048	912,603
Total, Classes I. to XV.						651,989	
XVI. Heat, Light and	14,237,023	13.721.247	1,033,902				33.424,300
Power	9,589	5,191	458	1,189	<u></u>	960	18,177
Total	14,267,414	13,726,441	1,834,360	2.115,235	846,284	652,949	33,442,683
	1 1						

SALARIES AND WAGES: MALE AND FEMALE FACTORY EMPLOYEES, 1945-46—continued.

(iv) Total and Average Earnings of Males and Females, 1938-39 and 1942-43 to 1945-46. 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
				Ман	LES.				
1938-39.	Amount paid Per cent. on tota		38,271.867 85.80				4,128,824		91,048,679 85.30
1942-43.	Average per emp Amount paid Per cent, on tota	loyee £	239.24	224.47 58,089,270	238.59 14,939.988	220,95 16,118,870	235.49 5,650.928	212.09 3,876,990	231.84 173,230,723
1943-44.	Average per emp Amount paid Per cent. on tota	loyee £	344.72	344.06 58,610,714	308.49 15,984,325	313.74 15,499,866	304.34 6,367.387	290.30 4,374,298	335.17 177,923,024
(944-45,	Average per emp. Amount paid	loyee £	352.15 73,934.690	349.02 56,114.675	326.70 16,058.718	314.00 14,55 3 .972	316.28 6,657.713	310.15 4,265,044	342 68 171,584,842
1945-46.	Per cent, on tota Average per emp Amount paid	loyee £		336.03	324.60 16,177,606	305.34 14,654,533	311.36 7,037,530	301.54 4,353,562	333.03 172,376,050
	Per cent. on tota Average per emp		83.72 335.34						

			conf	inued.				
	Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
		· · ·	FEMAL	.ES.	·	··		
19 38-39.	Amount paid		7,020,796					15,694.38
1942-43.	Average per employee a Amount paid Per cent, on total	103.66	108.25 14,945,983	96.00 1,797,557	86.44 3,124,420	99.58 826,185	93.19 595,826	35,636,120
1943-44.	Average per employee 4 Amount paid	E' 157.29 E 16,430.992	173.10	129.55 2,087,364	157.27 3,211,547	131.70 1,050,208	137.19	160.5 38,949.89
(9 44-45.	Average per employee 4 Amount paid	E 172.07 E 15,308,351	179.55 14,445.336	151.65 1,921,079	170.59 2,692,176	150.14 956,530	161.57 743,486	172.6
1945-46.	Average per employee a	E 169.83 E 14,267,414	175.27 13,726,441	153.12 1,834,360	164.86 2,115,235	142.01 846,284	157.09	169.4 33,442,68
	Per cent. on total Average per employee f		19.47 179.26				159.02	

TOTAL AND AVERAGE SALARIES AND WAGES: MALES AND FEMALES

(v) Managers, Clerical Staff and Other Employees. A further analysis of salaries and wages paid is given in the following table for 1945-46 and shows the amounts paid to managers, clerical staff, etc., and those paid to other employees. As previously mentioned. amounts drawn by working proprietors are excluded in all cases :—

SALARIES AND WAGES: MANAGERS. CLERICAL STAFF, ETC., AND OTHER EMPLOYEES, 1945-46.

	1		Salaries ar	nd Wages 1	Paid to-			
Class of Industry.	Managers, Staff, Cl Draftsme	emists,		All Other Employees.		All Employees.		
	Males.	Females.	Males.	Females.	Males.	Females.	Total.	
I. Treatment of Non- metalliferous Mine and Quarry Pro-	£	£	£	£	£	£	£	
ducts	392,111	48,837	2,534,694	19,700	2,926,805	68,537	2,995,342	
II. Bricks, Pottery, Glass, etc.	368,674	78,925	3,308,116	108,111	a 676 mag	-9-006	0 860 806	
III. Chemicals, Dyes, Ex-	300,074	. 70,925	3,300,110	100,111	3,676,790	187,036	3,863,826	
plosives, Paints, Oils and Grease IV. Industrial Metals Machines, Imple-	1,745,860	406,080	6,345,760	1,092,520	8,091,620	1,498,600	9,590,220	
ments and Con- veyances V. Precions Metals,	11,060,663				83,280,886	1		
Jewellery and Plate VI. Textiles and Textile	79,723	32,920	655,014	63,976	734,737	96,896	831,633	
Goods VII. Skins and Leather VIII Clothing	1,082,204 439,812 1,142,070	74,388	3.073.378		3,513,190		4,115.224	
IX. Food, Drink and Tobacco X. Weodworking and	3,841,954	936,482	20,719,499	3,947,616	24,561,453	4,884,098	29,445,551	
Basketware	906,273	178,881	8,787,736	109,043	9,694,009	287,924	9,981,933	
XI. Furniture, Bedding, etc. XII. Paper Stationery,	287,340	84,270	2,526,422	278,603	2,813,762	362,873	3,176,635	
Printing, Book- binding, etc.	1,475,664	494,803	7 807 480	1,400,001	9,369,144	1,894,804	11,263,948	
XIII. Rabber	437,130	100,885	1,927.345	216,531				
XIV. Musical Instruments XV. Miscellaneous Pro-	8,409	6,805	103,096	8,240	111,505	15,045	126,550	
ducts	584,720	191,381	2,272,060	721,222	2.856,780	912,603	3,769,383	
Total, Classes I. to XV.					168.612,799			
XVI. Heat, Light and Power	455.106	15,344	3,307,145	2,833	3,763.251	18,177	3,781,428	
Grand Total					172.376.050			
Average paid per employee	489.62	192.78	310.08	167.82	326 99	171.85	285.17	

3. Power, Fuel and Light Used.—(i) In Classes of Industry, 1945-46. The expenditure by factories on power, fuel and light, including the value of lubricanus and water, is of considerable importance; in 1945-46 it amounted to £27,036,648, an increase of £203,897 as compared with the previous year. The following table shows the value of power, fuel and light, etc., used in the different classes of industry in that year:—

	Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
i.	Treatment of Non- metalliferous Mine and Quarry Pro-	. £	£	£	£	£	£	£
	ducts Bricks, Pottery, Glass,	356,471	258,369	96.552	99,703	58,940	72,351	942 386
	chemicals, Dyes, Ex-	688,295	381,040	45,895	116,266	65,640	11,234	1,308,370
IV.	plosives, Paints, Oils and Grease Industrial Metals,		480,236	48,931	224,031	121,689	7,027	1,471.413
	Machines, Imple- ments and Con- vevances	4,557,202	1,260,881	293,453	968,739	161,931	362.632	7,604.838
	Precious Metals, Jewellery and Plate	14,434	17,542	1,125			152	
	Textiles and Textile Goods	285,883		16,204		14,439	39,422	
VIII.	Skins and Leather	126,353 203,857	142,346 220,122	35,948 26,621		20,741 15,359	17,199 5,510	
	Food, Dr nk and Tobacco Woodworking and	1,596,197	1,455,216	808 ,68 7	455,709	328,867	147,991	4,792,667
	Basketware Furniture, Bedding,	239,286	1 50,996	84,256	32,130	51,885	37,361	595,914
	etc	37,340	22,982	10,088	10,030	4,063	2,131	86,634
	Printing, Book- binding, etc.	226,105	378,010	36,211	78,331	19,836	193,534	932,027
XIV.	Rubber Musical Instruments	149,208 6,280		14,546 89	7,780	3,171	3,181	372,315 7,022
XV.	Miscellaneous Pro- ducts	76,907					2,037	
× W1	Total, Classes J. to XV. Heat, Light and	9,153,317	5,606,844	1,523,601	2,134,628	869,638	901,762	20,189,790
A V 1.	Power	3,053,324	1,334,136	774,418	716,692	966,039	2,249	6,846,858
	Grand Total	12,206,641	6,940,980	2,298,019	2,851,320	1,835,677	904,011	27,036,648

FACTORIES : VALUE OF POWER, FUEL AND LIGHT USED (a), 1945-46.

(a) Includes value of lubricants and water.

(ii) Values of Items, 1945-46. The following table shows the values of the various items of power, fuel and light used in factories in each State during the year 1945-46 :---

FACTORIES :	VALUE OF ITEMS OF	POWER, FUEL	AND LIGHT USED(a),	1945-46.
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Particula	r s.		N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
			£	£	£	£	£	£	£
Coal, Black .			3,972,052	1,309,963	1,047,251	786,611	478,377	119,464	7,713,718
"Brown				544,036					544,036
Brown Coal Brique	ettes			621,264		[.]	;	۱	621,264
Coke			2,045,978	365,653	44,048	470,4461	48,651	45,126	3,019,902
Wood			239,217		219,743	203,087	\$ 362,553	161,948	1,617,661
Fuel Oil.		1	1,044,834	541,665	192,793	355,758	425,500	88,436	2,648,986
Tar (Fuel)			150,445	112,759	39	45,110	5,120	6,396	319,869
Electricity			2,939,851	2,053,152	471.173	677,911	338,405	422,644	
Gas			839,920	189,696	34,565	61,255	18,867	6,562	1,150,865
Other (Charcoal, e	tc.)		50,428	136,426	52,733	88,033	12,644	1,746	342,010
Water			574,634		106,525		73,240	25,231	
Lubricating Oil .	-	••	349,282	225,992	129,149	78,087	72,320	26,458	881,288
Total .			12,206,641	6,940,980	2,298,019	2,851,320	1,835,677	904,011	27,036,648

(a) Includes value of lubricants and water.

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(iii) Quantities of Fuel used, 1945-46. The following table shows the quantities of fuel used in factories in each State during the year 1945-46 :---

Particulars.	Unit.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia
Coal, Black Brown Brown Coal Briquettes Coke Wood Fuel Oil Tar (Fuel)	Ton " " Gal. "	2,959,244 1,180,805 176,962 23,511,329 15,407,405	508,848 11,722,251	20,457 254,882		19,649 399,222 8,064,816	168,004 1,094,016	4,927,266 4,226,326 417,460 1,574,360 1,666,520 56,159,938 24,781,718

FACTORIES: QUANTITIES OF FUEL USED, 1945-46.

(iv) Total Value, 1938-39 and 1942-43 to 1945-46. The next table shows the sume expended on power, fuel and light during the years 1942-43 to 1945-46 compared with 1938-39 :---

FACTORIES : V	VALUE O	OF POWER.	FUEL AND	LIGHT	USED.(a)
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Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia
1943-44 · · · · · · · · · · · · · · · · · ·	£	£	£	£	£	£	£
	7,651,627	3,999,934	1,423,549	1,017,537	1,169,268	438,006	15,699,921
	12,307,663	6,514,447	2,105,774	2,469,301	1,437,624	791,713	25,626,522
	12,808 040	6,826,742	2,162,113	2,436,049	1,503,344	844,381	26,580,669
	12,564,956	6,946,053	2,222,879	2,555,739	1,645,987	897,137	26,832,751
	12,206,641	6,940,980	2,298,019	2,851,320	1,835,677	904,011	27,036,648

(a) Includes value of lubricants and water.

4. Value of Materials Used.—(i) In Classes of Industry, 1945-46. 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 1945-46 was £488,287,428, representing 56.28 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 :—

	Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia
I	Treatment of Non- metalliferous Mine and Quarry Pro-	£	£	£	£	£	£	£
τī	ducts	3,596,231	1,441,819	567,904	438,009	266,920	199,493	6,510,376
	etc. Chemicals, Dyes, Ex- plosives, Paints, Oils	1,576,011	622,176	105,660	271,077	90,578	25,765	2,691,267
IV.	and Grease Industrial Metals, Machines, Imple-	16,056,053	12,385,437	1,080,414	3,625,898	2,779,919	314,667	36,242,388
v.	ments and Con- veyances Precious Metals,	72,762,281	36,817,123	7,146,788	13,750,681	3,324,068	3,163,046	136,963,987
VI.	Jewellery and Plate Textiles and Textile	337,267	610,009	21,676	32,740	29,805	537	1,032,034
	Goods	10,913,554			1,140,628			
VIII.	Skins and Leather Clothing	4,856,904	3,779,432 15,471,407		1,272,595			
IX.	Food, Drink and							0 /5/7/
X.	Tobacco Woodworking and	51,897,036	49,387,219	39,183,374	12,354,839	8,000,053	4,599,844	165,422,365
	Basketware	8,021,065	5,170,584	3,064,555	1,639,201	1,120,078	951,973	19,967,456
Д1.	Furniture, Bedding, etc.	2,548,535	1,742,823	721,724	525,354	378,811	115,953	6,033,200
ХП.	Paper, Stationery, Printing, Book-				0-0.501	5, ,	5,505	-,-,,,,,
	binding, etc.	8,769,589		1,115,959				
	Rubber Musical Instruments	3,757,049 63,242		316,817 2,437	133,671 566			8,125,609 75,970
xv.	Miscellaneous Pro-			-,+,17	-	, i i i i i i i i i i i i i i i i i i i		
	ducts	2,330,858						
	Total, Classes I. to XV.	199,706,378	158,080,311	58,110,241	37,356,237	18,096,672	11,943,117	483,292,956
XVI.	Heat, Light and Power	1,999,708	1,717,630	522,838	413,813	263,963	76.520	4,994,472
	Grand Total	201,706,086	1 59,797,94 I	58.633,079	37,770.050	18,360,635	12,019,637	

FACTORIES : VALUE OF MATERIALS USED, 1945-46.

(ii) Total Amount, 1938-39 and 1942-43 to 1945-46. The following table shows the values of materials used in factories for the years 1942-43 to 1945-46 compared with 1938-39 :-

Year. N.S.W. Victoria. Q'land. S. Aust. W. Aust. Tasmania. Australia £ £ £ £. £ £ £ 1938-39 120,501,795 82,971,608 149,630,126 42,596,049 20,308,797 9,603,657 13,845,868 281,303,446 5,321,540 9,836,766 10,958,410 55,063,141 57,945,796 1942-43 472,720,078 498,923,060 496,888,671 488,287,428 207.599.130 36,745,047 36,730,842 1943-44 223,603,640 154,490,654 158,098,951 15,193,718 1944-45 1945-46 215,219,002 59,593,548 58,633,079 35.284,903 17,134.744 11.557.523 12,019,637 201,706,086 159,797,941 37,770,050 18,360,635

FACTORIES: VALUE OF MATERIALS USED.

5. Value of Output.—(i) In Classes of Industry, 1945-46. The value of the output of factories in the various classes in each State in 1945-46 is shown in the following table. It represents the wholesale selling value at the factory of goods made or processed during the year, including by-products. In addition, it includes the value of other work done such as repair work, assembling and making up for customers. The figures given include not only the increase in value due to the process of manufacture, but 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 : V	VALUE	OF OUTPUT,	1945-46.
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		CTORIES	· ALUL	01 00		10 10.		
	Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia
٢.	Treatment of Non- metalliferous Mine and Quarry Pro-	£	£	£	£	£	£	£
	ducts .	6,352,882	3,315,588	1,160,360	975,209	594,432	527,331	12,925,802
	Bricks, Pottery, Glass, etc. Chemicals, Dyes, Ex- plosives, Paints, Oils	5,574,133	2,718,311	408,589	901,054	377,671	85,326	10,065,084
ſV.	and Grease Industrial Metals, Machines, Imple-	28,024,635	20,260,798	1,725,382	6,154,150	3,732,871	397,424	60,295,260
v.	ments and Con- veyances Precious Metals,						6,531,222	274,261,183
VI.	Jewellery and Plate Textiles and Textile	817,156	1,349,056	82,473	116,609	77,052	4,105	2,446,451
	Goods	18,608,267					2,148,603	53,749,624
	Skins and Leather	7,829,553		2,890,982			293,434	
	Clothing	24,474,939	28,928,234	3,567,975	2,640,051	1,702,560	398,043	61,711,802
x.	Tobacco Woodworking and	76,032,953	70,538,377	50,169,293	17,047,144	11,602,906	6,812,098	232,202,771
XI.	Basketware Furniture, Bedding,	14,025,443	9,518,189	5,759,750	2,770,365	2,267,449	1,812,466	36,153,662
XII.	etc. Paper, Stationery, Printing, Book-	4,760,610		1,400,505				11,587,048
	binding, etc	17,465,658	15,423,419	2,802,957	2,116,086	1,392,226	2,344,873	
	Rubber	5,492,063						
	Musical Instruments	-214,653	. 46,238	11,584	16,164	1,326		289,965
AV.	Miscellaneous Pro-							
	ducts	5,174,508						12,097,775
	Total, Classes I. to XV.	354,737,650	280,385,891	88,739,284	64,065,584	32,181,188	21,821,174	841,930,771
XVI.	Heat, Light and		- 1					
	Power		6,603,517					25,716,746
	Grand Total	367,092,216	286,989,408	91,200,751	66,222,998	34,022,839	22,119,305	867,647,517

(ii) Total, 1938-39 and 1942-43 to 1945-46. The following table shows the value of output in each State during each of the years shown.

Year.		N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Taŝmania.	Australia.
		£	£	£	£	£	£	£
1938-39		218,419,313	152,967,611	63,321,073	35,005,264	19,548,511	11,158,205	500,419,977
1942-43				86,213,475	67,568,707	26,737,549	18,703,930	850,348,656
1943-44	••		284,647,914	90,318,437	67,578,377	29,208,588	20,848,210	891,739,216
1944-45	•••	387,658,585	287,422,311	92,718,465	65.107,692	31,740,740	21,356,984	886,004,777
1945-46		367,092,216	286,989,408	91,200,751	66,222,998	34,022,839	22,119,305	867,647,517

FACTORIES: VALUE OF OUTPUT.

6. Value of Production.—(i) In Classes of Industry, 1945-46. 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"

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 $\pounds 17,134,005$ for 1945-46. Many miscellaneous expenses, such as taxation, insurance, advertising and other sundry charges have not been taken into account. Therefore, it must not be inferred that when wages and salaries are deducted from the value of production the whole of the "surplus" is available for interest and profit.

The following table shows the value of production in 1945-46 in each State for the various classes of factories :---

I. Treatment of Non- metalliferous Mine and Quarry Pro- ducts £	<u> </u>							I	1
In Bretalliferous Mine and Quarry Pro- ducts 2,400,180 1,615,400 495,904 437,497 268,572 255,487 5,47 II. Bricks, Pottery, Glass, etc. 3,309,827 1,715,095 257,034 513,711 221,453 48,327 6,66 III. Chemicals, Dyes, Ex- plosives, Paints, Oils and Grease 11,379,083 7,395,125 596,037 2,304,221 831,263 75,730 22,58 V. Industrial Metals, Machines, Imple- ments and Con- veyances 62,570,714 39,165,141 9,227,925 10,997,252 4,725,782 3,005,544 129,69 V. Precious Metals, Goods 465,455 721,505 59,672 79,505 46,303 3,416 1,37 VI. Textiles and Textile Goods -,28,46,296 2,547,530 555,188 604,773 226,541 69,609 6,83 29,83 12,953,79 13,236,705 1,870,063 1,524,788 918,773 234,053 29,83 VIII. Skins and Leather 2,765,092 4,196,609 2,610,939 1,099,034 1,095,486 823,132 15,59 XI. Furniture, Bedding, etc. 2,766,743 3,208,797 24,631 165,739		Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
ducts 2,400,180 1,615,400 495,904 437,497 268,572 255,487 5,47 II. Bricks, Pottery, Glass, etc. 3,309,827 1,715,095 257,034 513,711 221,453 48,327 6,06 Machines, Implements and Grease 11,379,083 7,395,125 596,037 2,304,221 831,263 75,730 22,58 V. Industrial Metals, Machines, Implements and Convergences 62,570,714 39,165,141 9,227,925 10,997,252 4,725,782 3,005,544 129,690 V. Precious Metals, Jewellery and Plate 465,455 721,505 59,672 79,505 46,303 3,416 1,37 VII. Skins and Leather 7,408,830 12,199,130 459,926 839,450 253,914 874,707 22,02 69,63 VII. Skins and Leather 2,346,529 2,347,530 13,236,705 1,870,063 1,524,788 918,773 234,053 29,83 X. Woodworking and Basketware 5,765,092 4,196,609 2,610,939 1,099,034 1,095,486 823,132 15,594 XII. Paper, Stationery, Printing, Book- binding, etc. 8,469,964 7,189,107 1,650,787 <th>I.</th> <th>metalliferous Mine</th> <th>£</th> <th>£</th> <th>£</th> <th>£</th> <th>£</th> <th>£</th> <th>£</th>	I.	metalliferous Mine	£	£	£	£	£	£	£
etc		ducts	2,400,180	1,615,400	495,904	437,497	268,572	255,487	5,473,040
III. Chemicals, Dyes, Explosives, Paints, Oils and Grease Link (1,379,083) r.395,125 596,037 2,304,221 831,263 75,730 22,58 IV. Industrial Metais, Machines, Implements and Convergances 62,570,714 39,165,141 9,227,925 10,997,252 4,725,782 3,005,544 129,69 V. Precious Metals, Jewellery and Plate Goods 465,455 721,505 59,672 79,505 46,303 3,416 1,37 VI. Textiles and Textile Goods 2,846,290 2,547,530 555,188 604,778 226,741 69,609 6,68 VIII. Skins and Leather 2,846,292 13,236,705 1,870,063 1,524,788 918,773 234,053 29,83 X. Wood working and Basketware 2,174,735 1,652,635 668,693 480,311 362,136 128,704 5,46 XII. Paper, Stationery, etc. 1,365,806 2,174,735 1,652,635 668,693 480,311 362,136 128,704 5,46 XIV. Musical Instruments 1,365,806 2,766,743 3,208,797 224,631 185,739 127,855 95,142 6,60	11.		3.309.827	1.715.005	257,034	513,711	221,453	48,327	6,065,447
and Grease 11,379,083 7,395,125 596,037 2,304,221 831,263 75,730 22,58 IV. Industrial Machines, Imple- ments and Con- veyances 1 1,379,083 7,395,125 596,037 2,304,221 831,263 75,730 22,58 V. Precious Metals, Jewellery and Plate 62,570,714 39,165,141 9,227,925 10,997,252 4,725,782 3,005,544 129,69 VI. Textiles and Textile Goods 7,408,830 12,199,130 459,926 839,450 253,914 874,707 22,03 VII. Skins and Leather 2,846,290 2,547,530 555,186 604,778 226,741 69,606 6,65 VII. Clothing 12,050,379 13,236,705 1,870,063 1,524,788 918,773 234,053 29,83 X. Woodworking and Basketware 5,765,092 4,196,609 2,610,939 1,099,034 1,095,486 823,132 15,59 XII. Paper, Stationery, Printing, Book- binding, etc. 8,469,964 7,189,107 1,650,787 1,137,547 795,989 1,252,810 20,44 XV. Miscellaneous Pro- ducts 2,766,743 3,208,797 224,631	Ш.					!	1		
veyances 62,570,714 39,165,141 9,227,925 10,997,252 4,725,782 3,005,544 129,69 V. Precious Metals, Jewellery and Plate 465,455 721,505 59,672 79,503 46,303 3,416 1,37 VI. Textlles and Textile Goods	IV.	and Grease Industrial Metals, Machines, Imple-		7,395,125	596,037	2,304,221	831,263	75,730	22,581,459
Jewellery and Plate 465,455 721,505 59,672 79,505 46,303 3,416 1,37 VI. Textiles and Textile Goods 7,408,830 12,199,130 459,926 839,450 253,914 874,707 22,03 VII. Skins and Leather 2,846,296 2,547,530 555,186 604,778 226,741 69,609 6,63 IX. Food, Drink and Tobacco 22,539,720 19,695,942 10,177,232 4,236,596 3,273,986 2,064,263 61,98 X. Woodworking and Basketware 5,765,092 4,196,609 2,610,939 1,099,034 1,095,486 823,132 15,59 XII. Furniture, Bedding, etc. 2,174,735 1,652,635 668,693 480,311 362,136 128,704 5,46 XIII. Ruber 1,385,806 2,123,917 1,650,787 1,137,547 795,989 1,252,810 20,493 XIV. Musical Instruments 1,458,739 3,208,797 224,631 185,739 12,746,735 4,18 XV. Miscellaneous Pro- ducts 2,766,743 3,208,797 224,631 185,739 12,748,78 8,976,295 338,44 XVI	v.	veyances	62,570,714	39,165,141	9,227,925	10,997,252	4,725,782	3,005,544	129,692,358
Goods 7,408,830 12,199,130 459,926 839,450 225,39,44 874,707 22.07 VII. Skins and Leather .2,846,296 2,547,530 55,188 604,778 226,741 69,609 6,85 VII. Clothing 12,050,379 13,236,705 1,870,063 1,524,788 918,773 234,053 29,83 IX. Food, Drink and Tobacco 22,539,720 19,695,942 10,177,232 4,236,596 3,273,986 2,064,263 61,98 X. Woodworking and Basketware 5,765,092 4,196,609 2,610,939 1,099,034 1,095,486 823,132 15,59 XI. Furniture, Bedding, etc. 2,174,735 1,652,635 668,693 480,311 362,136 128,704 5,46 XIII. Paper, Stationery, Printing, Book-binding, etc. 1,385,806 2,123,914 242,353 118,799 65,433 45,377 20,499 XIV. Musical Instruments 145,131 36,101 9,058 15,491 1,192 20 XVV. Musical Instruments 2,766,743 3,208,797 <		Jewellery and Plate	465,455	721,505	59,672	79,505	46,303	3,416	1,375,856
VII. Skins and Leather 2,846,296 2,547,530 555,188 604,778 226,741 69,609 6,63 VIII. Clothing 12,050,379 13,236,705 1,870,063 1,524,788 918,773 234,053 29,83 IX. Food, Drink and Tobacco 22,539,720 19,695,942 10,177,232 4,236,596 3,273,986 2,064,263 61,98 X. Woodworking and Basketware 5,765,092 4,196,609 2,610,939 1,099,034 1,095,486 823,132 15,59 XI. Furniture, Bedding, etc. 2,174,735 1,652,635 668,693 480,311 362,136 128,704 5,466 XIII. Rubber 1,355,806 2,2433 118,799 65,433 45,371 20,493 XIV. Musical Instruments 1,451,311 36,101 9,058 15,491 1,192 20,493 XV. Miscellaneous Pro- ducts 2,766,743 3,208,797 224,631 185,739 12,7855 95,142 6,60 XVI. Heat, Light and Power 7,301,534 3,551,751 1,164,211 1,026,909 611,649 219,362 13,874		Goods	7,408,830	12,199,130	459,926	839,450	253,914	874,707	22,035,957
VIII. Clothing	VII.	Skins and Leather	2,846,296	2,547,530		604,778	226,741	69,609	6,850,142
Tobacco 22,539,720 19,695,942 10,177,232 4,236,596 3,273,986 2,064,263 61,98 X. Woodworking and Basketware 5,765,092 4,196,609 2,610,939 1,099,034 1,095,486 823,132 15,59 XII. Furniture, Bedding, etc. 2,174,735 1,652,635 668,693 480,311 362,136 128,704 5,46 XIII. Paper, Stationery, Printing, Book-binding, etc. 8,469,964 7,189,107 1,650,787 1,137,547 795,989 1,252,810 20,49 XIV. Musical Instruments 1,585,866 2,766,743 3,208,797 224,631 185,739 127,855 95,142 6,60 Total, Classes I. to XV 145,877,955 116,698,736 29,105,442 24,574,719 13,214,878 8,976,295 338,44 XVI. Heat, Light and Power 7,301,534 3,551,751 1,164,211 1,026,909 611,649 219,362 13,87		Clothing	12,050,379	13,236,705	1,870,063	1,524,788	918,773	234,053	29,834,761
Basketware XI. Furniture, Bedding, etc. 5,765,092 4,196,609 2,010,939 1,099,034 1,095,486 823,132 15,59 XII. Furniture, Bedding, etc. 2,174,735 1,652,635 668,693 480,311 362,136 128,704 5,46 XII. Paper, Printing, etc. 5,469,964 7,189,107 1,650,787 1,137,547 795,989 1,252,810 20,49 XIII. Rubber 1,555,806 2,123,914 9,058 15,491 1,192 20,49 XIV. Musical Instruments 1,45,131 36,101 9,058 15,491 1,192 20,49 XV. Miscellaneous Pro- ducts 2,766,743 3,208,797 224,631 185,739 127,855 95,142 6,60 Total, Classes I. to XV 145,877,955 116,698,736 29,105,442 24,574,719 13,214,878 8,976,295 338,44 XVI. Heat, Light and Power 7,301,534 3,551,751 1,164,211 1,026,909 611,649 219,362 13,87		Tobacco	22,539,720	19,695,942	10,177,232	4,236,596	3,273,986	2,064,263	61,987,739
etc. 2,174,735 1,652,635 668,693 480,311 362,136 128,704 5,46 XII. Paper, Stationery, Printing, Book-binding, etc. 8,469,964 7,189,107 1,650,787 1,137,547 795,989 1,252,810 20,49 XIII. Rubber 1,385,806 2,123,914 242,333 118,799 65,433 453,71 4,18 XIV. Musical Instruments 1,45,131 36,101 9,058 15,491 1,192 6,60 Musical Instruments 1,2,766,743 3,208,797 224,631 185,739 127,855 95,142 6,60 Total, Classes I. to XV. 145,877,955 116,698,736 29,105,442 24,574,719 13,214,878 8,976,295 338,44 XVI. Heat, Light and Power 7,301,534 3,551,751 1,164,211 1,026,909 611,649 219,362 13,87		Basketware	5,765,092	4,196,609	2,610,939	1,099,034	1,095,486	823,132	15,590,292
XII. Paper, Stationery, Printing, Book- binding, etc. 8,469,964 7,189,107 1,650,787 1,137,547 795,989 1,252,810 20,49 XIII. Rubber 1,385,866 2,123,914 242,333 118,799 65,433 45,371 45,371 XIV. Musical Instruments 145,131 36,101 9,058 15,491 1,92 XV. Miscellaneous Pro- ducts 2,766,743 3,208,797 224,631 185,739 127,855 95,142 6,60 Total, Classes I. to XV. 145,877,955 116,698,736 29,105,442 24,574,719 13,214,878 8,976,295 338,44 XVI. Heat, Light and Power 7,301,534 3,551,751 1,164,211 1,026,909 611,649 219,362 13,87	XI.		0 101 005	1 650 605	668 602	480.177	262 126	128 704	5,467,214
binding, etc	XII.	Paper, Stationery,	2,1/4,/35	1,052,035	000,093	400,311	302,130	120,704	5,407,214
XIII. Rubber 1,585,866 2,123,914 242,353 118,799 65,433 45,371 4,18 XIV. Musical Instruments 145,131 36,101 9,058 15,491 1,192 2,122,114 200 XV. Miscellaneous Pro- ducts 2,766,743 3,208,797 224,631 185,739 127,855 95,142 6,60 Total, Classes 1. to XV. 145,877,955 116,698,736 29,105,442 24,574,719 13,214,878 8,976,295 338,44 XVI. Heat, Power Light and Power 7,301,534 3,551,751 1,164,211 1,026,909 611,649 219,362 13,87			8.469.964	7.189.107	1.650.787	1.137.547	795.989	1.252.810	20,496,204
XV. Miscellaneous Pro- ducts 2,766,743 3,208,797 224,631 185,739 127,855 95,142 6,60 Total, Classes I. to XV. 145,877,955 116,698,736 29,105,442 24,574,719 13,214,878 8,976,295 338,44 XVI. Heat, Power Light and 7,301,534 3,551,751 1,164,211 1,026,909 611,649 219,362 13,87	XIII.	Rubber							4,181,676
ducts 2,766,743 3,208,797 224,631 185,739 127,855 95,142 6,60 Total, Classes I. to XV. 145,877,955 116,698,736 29,105,442 24,574,719 13,214,878 8,976,295 338,44 XVI. Heat, Power Light and 7,301,534 3,551,751 1,164,211 1,026,909 611,649 219,362 13,87									206,973
Total, Classes I. to XV, 145,877,955 116,698,736 29,105,442 24,574,719 13,214,878 8,976,295 338,44 XVI. Heat, Light and Power 7,301,534 3,551,751 1,164,211 1,026,909 611,649 219,362 13,87	XV.		2,766,743	3,208,797	224,631	185,739	127,855	95,142	6,608,907
XVI. Heat, Light and Power 7,301,534 3,551,751 1,164,211 1,026,909 611,649 219,362 13,87						····			
Power 7,301,534 3,551,751 1,164,211 1,026,909 611,649 219,362 13,87		Total, Classes 1. to XV.	145,877,955	116,698,736	29,105,442	24,574,719	13,214,878	8,976,295	338,448,025
Grand Total 153,179,489 120,250,487 30,269,653 25,601,628 13,826,527 9,195,657 352,32	XVI.	Daman	7,301,534	3,551,751	1,164,211	1,026,909	611,649	219,362	13,875,416
		Grand Total	153,179,489	1 20,2 50,487	30,269,653	25,601,628	13,826,527	9,195,657	352,323,441

FACTORIES : VALUE OF PRODUCTION, 1945-46.

(ii) Total and Averages, 1938-39 and 1942-43 to 1945-46. 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 :---

Year	•	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
		· · · · · · · · · · · · · · · · · · ·		Val	.UE.			·
		£	£	£	£	£	£	£
1938-39		90,265,891	65,996,069	19,301,475	13,678,930	8,775,586	5,398,659	203,416,610
1942-43		153,682,262		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
1944-45	••	159,874,627		30,902,038	27,267,050	12,960,009	8,902,324	362,283,355
1945-46	• •	153,179,489	1120,250,487	30,269,653	25,601,628	13,826,527	9,195,657	352,323,441
				PER PERS	SON ENGAG	ED.		·
		£	£	£	£	£	£	£
1938-39		395	327	357	315	378	391	360
1942-43		487	463	452	390	444	441	464
1943-44		504	472	467	408	445	457	478
1944-45	•••	508	475	482	416	445	456	483
1945-46	••	493	469	462	405	457	478	473
			Рен	R HEAD OF	POPULATI	ON.		<u> </u>
		£	£	£	£	£	£	£
1938-39		32.99	35.25	19.15	22.99	18.79	22.72	29.41
1942-43		54.00	61.76	27.92	46.41	24.01	33.4I	49.01
1943-44		56.66	62.22	28.65	46.11	26.15	37.04	50.53
1944-45		55.09	61.23	28.92	43.75	26.73	36.05	49.47
1945-46		52.23	59.66	27.92	40.57	28.21	36.74	47.42

FACTORIES : VALUE OF PRODUCTION.

7. Value of Output and Cost of Production.—As the total value of the output for Australia for 1945-46 was estimated at £867,647,517, there remained, after payment of £488,287,428 for the value of the materials used, £205,818,733 for salaries and wages, and £27,036,648 for power, fuel and light, the sum of £146,504,708 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 1945-46 :=

FACTORIES: VALUE OF OUTPUT AND COST OF PRODUCTION, 1945-46.

State.		Materials Used. (a)	Power, Fuel and Light. (b)	Salaries and Wages.	Margin for other miscellaneous expenses, charges, profits, etc.	Total Value of Output.
		· Vali	je and Cosi	F, ETC.		•
		£	£	£	£	£
New South Wales Victoria Queensland South Australia Western Australia Tasmania	 	201,706,086 159,797,941 58,633,079 37,770,050 18,360,635 12,019,637	12,206,641 6,940,980 2,298,019 2,851,320 1,835,677 904,011	87,647,460 70,499,214 18,011,966 16,769,768 7,883,814 5,006,511	65,532,029 49,751,273 12,257,687 8,831,860 5,942,713 4,189,146	367,092,216 286,989,408 91,200,751 66,222,998 34,022,839 22,119,305
Australia	••	488,287,428	27,036,648	205,818,733	146,504,708	867,647,517

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

State.		Materials Used. (a)	Power, Fuel and Light. (b)	Salaries and Wages.	Margin for other miscellaneous expenses, charges, profits, etc.	Total Value of Output
	Perc	DENTAGE OF	Costs, etc.,	ON TOTAL	Value.	
		%	%	%	%	%
New South Wales	••	54.95	3.33	23.88	17.84	100.00
Victoria	••	55.68	2.42	24.56	17.34	100,00
Queensland	••	64.29	2.52	19.75	13.44	100,00
South Australia	••	57.03	4.31	25.32	13.34	100.00
Western Australia	••	53.97	5.40	23.17	17.46	100.00
Tasmania	••	54.34	4.09	22.63	18.94	100.00
Australia	••	56.27	3.12	23.72	16.89	100.00

FACTORIES: VALUE OF OUTPUT AND COST OF PRODUCTION, 1945-46continued.

(a) Includes the value of containers , packing, etc., also the cost of tools replaced and repairs to plans (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 1945-46:—

FACTORIES : VALUE OF LAND, BUILDINGS, PLANT AND MACHINERY(a), 1945-46.
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Value of—	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australis
	£	£	£	£	£	£	£
Land and buildings	80,308,347	60,264,953	14,331,556	18,446,966	8,282,694	5,304,703	186,939,215
Plant and machinery	72,560,630	58,537,394	18,690,541	19,017,955	8,507,705	8,230,715	185,544,94r
Total	152,868,977	118,802,347	33,022,097	37,464,921	16,790,399	13,535,418	372.484,155

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

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

2. Value of Land and Buildings.—(i) Total for Australia, 1938-39 and 1942-43 μ 1945-46. The following table shows for Australia as a whole the approximate value of land and buildings occupied in connexion with manufacturing industries for 1938-3c and 1942-43 to 1945-46.

	Class of Industry.	1938-39.	1942-43.	1943-44.	1944-45.	1945-46.
- .	Treatment of Non-metalli-	£	£	£	£	£
	ferous Mine and Quarry Products			- 6 6 -		
		2,778,746	2,615,787		2,642,425	3,019,524
	Bricks, Pottery, Glass, etc.	2,953,557	2,912,817	2,706,737	2,940,413	3,331,450
	Chemicals, Dyes, Explo-					
	sives, Paints, Oils and					
	Grease	7,377,55I	18,668,293	18,635,144	18,432,290	18,461,520
1.	Industrial Metals,		,			
	Machines, Implements					
	and Conveyances	34,841,028	53,041,129	60,043,410	60,783.523	59,530,238
٧.	Precious Metals, Jewellery					
	and Plate	633,009	579,780	590,482	615,779	751,611
VI.	Textiles and Textile Goods	5,999,671	7,996,992	8,378,695	8,770,139	9,111,725
VII.	Skins and Leather	2,095,886	2,279,645	2,327,945	2,493,751	2,965,986
VIII.	Clothing	10,623,619	11,133,533		12,660,045	13,993,956
	Food, Drink and Tobacco		35,927,769	37,376,297	39,321,977	40,129,049
	Woodworking and Basket-		33,3-7,7-3	57,57-97	33,3,377	40,129,049
	ware	4,106,963	4,623,716	4,811,963	5,030,273	5,441,290
¥ T	Furniture, Bedding, etc	2,533,254	2,366,887		2,293,762	2,828,984
	Paper, Stationery, Print-	*,333,~34	2,300,007	~,~59,507	2,293,702	2,020,904
AII.	ing. Bookbinding, etc.	10,639,315	11,478,257	11,408,044	11,576,815	11,604,666
* * * *	The 1 K			1,684,331		
		1,676,043	1,643,420		1,737,861	1,865,044
	Musical Instruments	104,838	99,949	98,829	116,074	133,182
ΔV.	Miscellaneous Products	1,432,857	2,113,459	2,292,206	2,588,535	2,964,894
	Total, Classes I. to XV	121,069,585	157,481,433	167,089,412	172,003,662	176,133,119
LVI.	Heat, Light and Power.	9,850,829	10,112,514	10,057,193	10,576,445	10,806,100
	Grand Total	1 30,920,414	167,593,947	177,146,605	182,580,107	186,939,219

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

(a) Includes estimated value of rented premises.

(ii) In Classes of Industry in States, 1945-46. The following table gives particulars of the various classes of industry in each State.

FACTORIES :	: VALUE	0F	LAND	AND	BUILDINGS,	(a)	1945-46.
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	Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
1.	Treatment of Non- metalliferous Mine and Quarry Pro-	£	£	£	£	£	÷£	£
ET.	ducts Bricks, Pottery, Glass,	1,388,537	943,917	191,261	212,759	95,510	187,540	3,019,524
	etc. Chemicals, Dyes, Ex-	2,088,923	798,248	129,045	201,957	94,177	19,100	3,331,450
IV.	plosives, Paints, Oils and Grease Industrial Metals, Machines, Imple- ments and Con-	4,341,386	6,104,394	245,155	6,878,797	810,046	81,742	18,461,520
v		30,564,445	17,174,574	3,736,404	4,315,509	2,385,627	1,353,679	59,530,238
,,	Jewellery and Plate Textiles and Textile	285,576	343,760	30,021	49,219	36,675	6,360	751,611
	Goods	3,374,885	4,821,139			118,161		
	Skins and Leather		1,206,083				36,709	
	Clothing	6,487,800	5,462,115	636,163	707,521		129,134	13,993,956
x.	Tobacco Woodworking and	14,974,926	11,877,394	6,203,697	3,191,680	2,387,230	1,494,122	40,129,049
XI.	Basketware Furniture, Bedding,	2,504,701	1,467,433	550,237	431,639	303,885	183,395	5,441,290
	etc.	1.082.318	1,011,363	284,180	207,662	1,81,460	62,001	2,828,984
X11.	Paper, Stationery, Printing, Book-	1			•/	. ,,		,
	binding, etc.	4,765,325	3,898,431	911,549	748,093	510,285	770,983	11,604,666
XIII.	Rubber	856,381	721,245	129,471	75,123	47,834	34,990	1,865,044
	Musical Instruments Miscellaneous Pro-	86,989	32,339	2,560				133,182
	ducts	1,312,349	1,313,732	111,136	104,068	83,579	40,030	2,964,894
	Total, Classes I. to XV.	75,326,927	57,176,167	1 3,466,498	17,751,461	7,753,294	4,658,772	176,133,119
XVI.	Heat, Light and Power	4,981,420	3,088,786	865,058	695,505	529,400	645,931	10,806,100
	Grand Total	80,308,347	60,264.953	14.331,556	18,446,966	8,282,694	5,304,703	186,939,219
	(a)) Includes	estimated	value of r	ented prev	nises	_	

(a) Includes estimated value of rented premises.

(iii) Totals in each State. The following table shows the value of land and buildings in each State for the years 1938-39 and 1942-43 to 1945-46:—

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
1938-39 1942-43 1943-44	£ 57,353,625 72,622,902 78,978,013	£ 42,026,245 52,642,052 55,062,982	£ 12,299,089 13,159,140 13,262,504	£ 8,710,700 17,473,537 17,629,235	£ 6,813,653 6,770,121 6,920,805	£ 3,717,102 4,926,195 5,293,066	£ 130,920,41 167,593,94 177,146,60
1944-45 1945-46	81,058,876 80,308,347	57,808,861 60,264,953	13,689,055 14,331,556	16,877,449 18,446,966	7,654,187 8,282,694	5,491,679 5,304,703	182,580,10 186,939,21

FACTORIES : VALUE OF LAND AND BUILDINGS.(a)

(a) Includes estimated value of rented premises.

Prior to 1929-30 the increase in the value of land and buildings was uninterrupted, rising from £23 million in 1903 to £118 million in 1929-30, a growth of £95 million in 27 years. During the three years ended 1932-33, however, there was a decline of £12 million to £105.8 million, but since that year the value has risen annually and stood at £186.9 million in 1945-46.

3. Value of Plant and Machinery.—(i) Total for Australia, 1938-39 and 1942-43 to 1945-46. 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 1945-46 :--

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

	Class of Industry.	1938-39.	1942-43.	1943-44.	1944-45.	1945-46.
I.	Treatment of Non-metalli- ferous Mine and Quarry	£	£	£	£	£
	Products	7,028,382	5,624,798	5,089,274	4,955,979	4,916,338
п	Bricks, Pottery, Glass, etc.	3,144,586	2,580,261	2,246,369	2,509,661	2,967,696
	Chemicals, Dyes, Ex- plosives, Paints, Oils	3,144,200	2,500,201	2,240,309	2,509,001	2,907,09
IV.	and Grease Industrial Metals, Machines, Implements	6,754,248	17,083,211	17,411,181	19,208,586	17,791,778
v.	and Conveyances	33,037,801	52,931,958	56,918,202	54,953,997	53,901,719
	and Plate	197,059	200,445	219,266	207,620	253,062
	Textiles and Textile Goods	6,657,416	7,915,814	7,600,447	7,658,756	7,736,737
	Skins and Leather	973.181	1,160,754	1,224,852	1,264,612	1,584,051
	Clothing	2,557,388	2,855,529	3,225,678	3,552,899	4,134,900
	Food, Drink and Tobacco Woodworking and Basket-	32,100,675	31,660,416	31,904,522	32,692,162	33,233.935
	ware	3,907,551	4,299,740	4,486,081	4,533,758	5,023,174
	Furniture, Bedding, etc Paper, Stationery, Print-	727,857	602,222	545,199	572,308	740,62;
	ing, Bookbinding, etc.	9,188,227	10,074,519	9,531,486	8,961,222	8,556,47;
	Rubber	1,367,859	1,220,467	1,243,448	1,191,308	1,218,861
	Musical Instruments	11,702	13,325	14,011		23,57
XV.	Miscellaneous Products	758,273	1,384,164	1,547,403	1,763,939	1,855,93
	Total, Classes I. to XV	108,412,205	139,607,623	143,207,419	144,044,998	143,938,86
XV 1.	Heat, Light and Power	35,249,922	37,357,703	37,785,350	39,872,062	41,606,07;
	Grand Total	143,662,127	176,965,326	180,992,769	183,917,060	185,544,940

(a) Includes estimated value of rented plant.

Except for the years 1930-31 to 1933-34, when decreases were recorded, there has been a continuous increase in the value of plant and machinery in Australia. The increase in 1945-46 of £1.6 million extended over all industrial classes except Classes III. Chemicals, IV. Industrial Metals and XII. Paper, where reductions occurred. The greatest increase occurred in Class XVI. Heat, Light and Power.

(ii) Totals in each State. The following table shows the value of plant and machinery in each State during the years 1942-43 to 1945-46 compared with 1938-39. During 1945-46 decreases in New South Wales and Victoria were more than offset by increases in the other States.

Year.	N.S.W.	Victoria,	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
1938-39 1942-43 1943-44 1944-45 1945-46	£ 62,692,956 73,121,771 73,803,954 73,039,252 72,560,630	£ 38,626,743 51,963,258 55,457,719 58,571,064 58,537,394	£ 18,095,415 18,793,878 17,886,417 18,134,011 18,690,541	£ 9,749,679 17,848,070 18,415,477 17,955,288 19,017,955	£ 8,095,064 7,105,019 7,364,909 8,254.231 8,507,705	£ 6,402,270 8,133,330 8,064,293 7,963,214 8,230,715	£ 143,662,127 176,965,326 180,992,769 183,917,060 185,544,940

FACTORIES : VALUE OF PLANT AND MACHINERY.(a)

(a) Includes estimated value of rented plant.

(iii) Value according to Industry, 1945-46. The following table shows the value of plant and machinery used in factories in each State during 1945-46 classified according to industry :—

							1	
	Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia
 [.	Treatment of Non-	£	£	£	£	£	£	£
	metalliferous Mine and Quarry Pro-			Į				
п.	ducts Bricks, Pottery, Glass,	1	1,311,900	1			5,10	4,916,3
11	etc. Chemicals, Dyes, Ex- plosives, Paints, Oils	1,774,573	759.723	103,385	192,090	107.781	30,144	2,967,69
IV.	and Grease Industrial Metals,	4,691,101	6,752,375	230,591	5,025,434	1,060.992	31,285	17.791,7
	Machines. Imple- ments and Con- veyances	27,024,690	15.661,705	3,068,199	4,863,037	1,719,748	1.534.340	53.001.7
v.	Precious Metals, Jewellery and Plate	88,630		- I	r			
٧I.	Textiles and Textile	, ,						
	Goods	2,846,663						
	Skins and Leather	618.581		125,972				
	Food. Drink and	1,093,303	1,787,796	219.203	240,590	150,342	43.592	4.134.9
x.	Tobacco Woodworking and	10,121,255	7,754,106	10,259,802	2,368,521	1,790,366	939,885	33,233,9
хт	Basketware Furniture, Bedding,	1.846,210	1,251,999	801,574	279,293	464,722	379.376	5.023,1
	etc. Paper, Stationery	291,503	214.390	75,047	83,722	55,856	20,109	740,6
	Printing, Book- binding, etc.	3,478,128	2,645,775	462,316	634,954			
11	Rubber	495.034		57,572	33,135	13,098	1,105,042	
	Musical Instruments	14.751		755		13,090		1,218,8
ΥY.	Miscellaneous Pro-					•		, ~,,,
	ducts	711.868	1,016,211	37,064	42,141	35,839	12,808	1,855,9
	Total, Classes I. to XV,	58.362,840	44,464,416	15,884,167	14,749,658	5,996,751	4,481,031	143,938,8
¢1.	Heat, Light and Power	14,197,790	14,072.978	2,806,374	4,268,297	2,510,954	3.749,684	41,606,0
	Grand Total	72.560,630	58,537,394	18,690,541	19,017,955	8,507,705	- 8,230,715	185,544,9

FACTORIES : VALUE OF PLANT AND MACHINERY,(a) 1945-46.

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 1945-46 as recorded by factory proprietors at the annual census of factory production.

		MACHIN	1211, 1	10-10.			
Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia
I. Treatment of Non- metalliferous Mine	£	£	£	£	£	£	£
and Quarry Pro- ducts	451,784	116,085	39,659	22,252	6,815	21,826	658,423
II. Bricks, Pottery, Glass, etc	220,440	81,350	13,626	17,529	10,309	1,256	344,510
plosives, Paints, Oils and Grease IV. Industrial Metals, Machines, Imple-	770,090	542,849	31,163	203,344	85,336	7,964	1,640,741
wents and Con- veyances	3,021,779	1,299,102	300,645	606,033	120,021	135,074	5,482,654
Jewellery and Plate VI. Textiles and Textile	9,965	11,863	660	2,019	949	97	25,553
Goods	331,108 58,279	625,905 60,570	11,954 12,071			33,261 9,269	1,080,642 169,916
VIII. Clothing	194,922			19,094			430.701
Tobacco X. Woodworking and	999,181	883,577	722,220 ₁	223,138	153,970	73,931	3,056,017
Basketware XI. Furniture, Bedding,	212,296	0,. 0		39,206	46,223	39,522	5 41,85t
etc XII. Paper, Stationery, Printing, Book-	28,723	18,837	9,489	7,157	5,516	1,406	71,128
binding, etc.	360,897						
XIII. Rubber	143,037 2,022	173,516 216			1,808 5	1,479 	332,738 2,451
XV. Miscellaneous Pro- ducts	87,151	121,432	2,852	6,342	4,872	1,566	224,215
Total, Classes I. to XV.	6,891,674	4,646,563	1,314,994	1,314,977	490,146	463,876	15,122,230
XVI. Heat, Light and Power	1,196,078	229,747	208,301	235,560	78,081	64,008	2,011,775
Grand Total	8,087,752	4,876,310	1,523,295	1,550,537	568,227	527,884	17,134,005

ALLOWANCE FOR DEPRECIATION OF LAND AND BUILDINGS AND PLANT AND MACHINERY, 1945-46.

In the following table particulars are given of the recorded values of land and buildings and plant and machinery in use by factories in Australia as at 30th June of the years 1939 and 1943 to 1946 and the value of additions and replacements made and depreciation allowed during each year.

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

Уеат.			ues as at une.(a)	Additions a ments du		Depreciation allowed during year.		
Year.		Land and Buildings.	Plant and Machinery.	Land and Buildings.	Plant and Machinery.	Land and Buildings.	Plant and Machinery	
1938–39 1942–43 1943–44 1944–45 1945–46	··· ·· ··	£'000. 130,920 167,594 177,147 182,580 186,939	£'000. 143,662 176,965 180,993 183,917 185,545	£'000. 5,578 12,996 9,741 5,020 6,245	£'000. 17,781 19,262 19,544 17,780 21,766	£'000. 1,911 2,729 3,532 2,978 2,537	£'000. 8,736 15,603 17,275 15,808 14,597	

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

§ 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 of each industry, particular industries dealt with hereunder are of special importance because of the employment which they provide for labour and capital or for other features of special interest. Where there are only one to 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 (Portland) and Cement Goods.—(i) Details for each State. The manufacture of portland cement and cement goods is an important industry included in Class I. and details for each State during 1945-46 are given in the following table :—

Items.	N.8.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories	51	41	21	16	16	7	152
Number of persons engaged	1,981	1,011	644	440	314	192	4,582
Value of land and buildings £	680,462	365,801	153,410	93,015	34,737	136,170	1,463,595
Value of plant and machinery £	748,765	571,250	221,644	304,547	91,645	66,903	2,004,754
Salaries and wages paid £	585,901	286,854	194,739	138,909	83,666	43,653	1,333,722
Value of power, fuel, etc., used£	206,774	128,038	82,811	84,825	47,864	42,527	592,839
Value of materials used £	1,093,431	512,174	439,731	232,321	138,206	82,666	2,498,529
Total value of output £	2,351,085	1,296,952	917,636	550,247	315,033	237,191	5,668,144
Value of production £	1,050,880	656,740	395,094	233,101	128,963	111,998	2,576,776

CEMENT (PORTLAND) AND CEMENT GOODS, 1945-46.

CEMENT (PORTLAND)	AND	CEMENT	600DS :	AUSTRALIA.	1945-46

Items.]	Cement (Portland).	Cement Goods.	Total.	
Number of factories Number of persons engaged Value of land and buildings Value of plant and machinery Salarles and wages paid Value of power, fuel, etc., used Value of materials used Total value of output Stalue of production	· · · · · · · · · · ·		10 1,510 933,561 1,542,773 461,671 544,352 918,832 2,543,816 1,080,632	142 3,072 530,034 461,981 872,051 48,487 1,579,697 3,124,328 1,496,144	152 4,582 1,463,595 2,004,754 1,333,722 592,839 2,498,529 5,668,144 2,576,776
Cement, portland grey, produced	••	ton £	723,348 2,486,306		723,348 2 ,486,306

3. Chemicals, Drugs and Medicines.—In 1945-46 the classification of factories was smended to provide for the separate tabulation of factories engaged in the production of Industrial and Heavy Chemicals and Acids and those engaged in producing Pharmaceutical and Toilet Preparations which previously had been combined. Details for each of these industries are given in the next two tables for 1945-46.

INDUSTRIAL AND HEAVY CHEMICALS AND ACIDS, 1945-46.

Items.	N.8.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Salaries and wages paid \pounds Value of power, fuel, etc., used \pounds Value of materials used \pounds Total value of output \pounds	77 2,598 1,173,129 1,653,323 926,556 221,789 2,461,635 4,794,502 2,111,078	2,970,628	12 183 48,324 64,837 51,762 14,545 89,604 229,420 125,271	$ \begin{array}{c} 4 \\ 432 \\ (a) \\ $	$ \begin{array}{c} 5\\ 164\\ (a)\\ (a)\\ (a)\\ (a)\\ (a)\\ (a)\\ (a)\\ (a)$	2 23 (a) (a) (a) (a) (a) (a) (a)	147 5,016 2,188,040 3,410,401 1,750,604 4,58,996 4,406,964 8,820,483 3,954,523

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

PHARMACEUTICAL AND TOILET PREPARATIONS, 1945-46.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Total value of output £	6,035,652	48 1,730 426,781 291,255 414,543 17,279 1,930,945 3,226,080 1,277,856	4 101 23.439 4.936 21,168 473 55,702 97.759 41,584	$ \begin{array}{c} 10 \\ 525 \\ (a) \\$	$ \begin{array}{c} 8 \\ 128 \\ (a) \\ $	$ \begin{array}{c} 3\\ 22\\ (a)\\ (a)\\ (a)\\ (a)\\ (a)\\ (a)\\ (a)\\ (a)$	213 5,514 1,534,058 598,484 1,278,233 56,780 5,402,730 10,249,317 4,789,807

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

4. White Lead, Paint and Varnish.—(i) Details for each State. The following table shows particulars of this industry for each State during 1945-46 :—

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia
Total value of output £	58 2,180 616,016 320,897 721,122 61,366 3,072,433 4,776,482 1,642,683	241,018 131,979 192,117 13,256 1,060,878 1,624,138	5 69 11,538 14,488 21,235 1,067 165,188 234,183 67,928	60,019 4,480 390,678	$ \begin{array}{c} 3\\ 28\\ (a)\\ (a)\\ (a)\\ (a)\\ (a)\\ (a)\\ (a)\\ (a)$	$ \begin{array}{c} 1 \\ 6 \\ (a) \\ $	122 3,197 973,166 524,065 1,005,121 80,675 4,775,075 7,304,167 2,448,417

WHITE LEAD, PAINT AND VARNISH FACTORIES, 1945-46.

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

(ii) Total for Australia. The next table gives particulars for the years 1942-43 to 1945-46 compared with 1938-39:--

WHITE LEAD	, PAINT AND	VARNISH FACTORIES :	AUSTRALIA.

Items.			1938-39.	1942–43.	1943-44.	1944-45.	1945–46.
Number of factories Number of persons engaged Value of land and buildings Value of plant and machinery Salaries and wages paid Value of power, fuel, etc., used Value of materials used Total value of output Value of production	· · · · · · · · · · · · · · · · · · ·	સ્ સ્ સ્ સ્	102 2,271 761,345 324,222 535,014 44,992 2,275,027 3,905,104 1,585,085	110 2,169 828,790 368,410 648,455 58,080 3,180,267 4,844,646 1,606,299	111 2,350 897,777 415,552 727,843 66,262 3,943,679 5,931,990 1,922,049	113 2,501 936,927 459,252 792,437 70,274 4,465,958 6,694,321 2,158,089	122 3,197 973,166 524,065 1,005,121 80,675 4,775,075 7,304,167 2,448,417

5. Soap and Candle Factories.—(i) Details for each State. The following table gives particulars of soap and candle factories in each State for 1945-46 :--

SOAP AND CANDLE FACTORIES, 1945-46.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories Number of persons engaged Value of land and buildings £ Value of plant and machinery £ Salaries and wages paid £ Value of power, fuel, etc., used£ Value of materials used £ Total value of output £ Value of production £	40 1,721 376,634 161,333 495,275 50,061 1,686,739 3,408,769 1,671,969	16 738 185,865 151,597 213,617 58,771 905,628	8 308 37,268 19,051 83,793 6,414 232,739 425,757 186,604	5 173 53,429 28,066 45,945 4,667 131,583 202,795 66,545	$ \begin{array}{c} 2 \\ 6 \\ $	2 19 (a) (a) (a) (a) (a) (a) (a)	73 3,020 676,405 372,940 860,354 123,250 3,051,046 5.801,953 2,627,657

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

(ii) Total for Australia. The next table gives similar particulars for the years 1942-43 to 1945-46 compared with 1938-39 :--

SOAP AND CANDLE FACTORIES : AUSTRALIA.

Items.			1938-39.	1942-43.	1943-44.	1944-45.	1945-46.
Number of factories Number of persons engaged Value of land and buildings Value of plant and machinery Salaries and wages paid Value of power, fuel, etc., used Value of materials used Total value of output Value of production	···· ··· ··· ··· ···	******	65 2.620 665,546 576,732 501,174 76,283 1,567,999 3.529,723 1,885,441	66 3,084 691,066 461,918 802,011 147,061 2,979,650 6,116,396 2,089,685	65 2,938 686,091 422,467 805,919 139,713 2,757,710 5,290,607 2,393,184	67 2,906 675,578 376,788 779,341 126,739 2,853,368 5,464,765 2,484,658	73 3,020 676,405 372,940 860,354 123,250 3,051,046 5 801,953 2,627,657

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INDIVIDUAL INDUSTRIES.

(iii) Raw Materials Used and Production. The following statement shows the quantities of certain raw materials used and the production in soap and candle factories in Australia for the years 1942-43 to 1945-46 compared with 1938-39:--

SOAP AND CANDLE FACTORIES : 1	RAW MATERIALS USED AND PRODUCTION,
A	USTRALIA.

	Par	ticulars.			1938–39.	1942-43.	1943-44.	1944-45.	1945-46.
Tallow used Alkali used Cocca-nut oil u Soap made Candles made		refined an	d unrefi	cwt. ned ,,	535,511 229,881 138,954 986,087 27,459	1,053,412 233,856 86,367 1,355,708 43,788	856,031 201,992 74,915 966,982 38,291	859,109 203,697 79,299 898,489 23,159	834,057 160,304 86,576 968,792 23,194

6. Chemical Fertilizers.—(i) Details for each State. The following table gives particulars of the factories engaged in the manufacture of chemical fertilizers in each State during 1945-46. Details of the consumption, imports and exports of fertilizers will be found in Chapter XX. "Agricultural Production".

CHEMICAL FERTILIZERS, 1945-46.

·····							
Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories Number of persons engaged Value of land and buildings £ Value of plant and machinery £ Salaries and wages paid £ Value of power, fuel, etc., used£ Value of materials used £ Total value of output £ Value of production £	6 327 111,425 113,074 121,735 12,405 902,112 1,189,003 274,486	8 1,179 465,131 655,372 419,340 59,758 2,888,304 3,676,922 728,860	6 131 68,630 81,095 43,299 1,828 364,293 468,653 102,532		546,431 838,685 240,471 74,431 2,056,935 2,585,219	38,221 15,538 17,954 1,222 251,603 271,045	38 3,127 1,571,948 2,409,368 1,091,275 181,418 7,898,493 10,046,710 1,966,799

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

CHEMICAL FERTILIZERS : AUSTRALIA.

. Items.		1938-39.	1942-43.	1943-44.	1944-45.	1945-46.
Number of factories	······································	36	34	36	38	38
Number of persons engaged		2,540	1,667	1,818	2,452	3,127
Value of land and buildings		1,449,157	1,464,411	1,454,051	1,468,653	1,571,948
Value of plant and machinery		2,352,819	2,176,426	2,244,501	2,365,895	2,409,368
Salaries and wages paid		601,477	539,955	632,115	872,466	1,091,275
Value of power, fuel, etc., used		113,749	75,104	86,876	122,215	181,418
Value of materials used		3,231,053	2,945,694	3,659,176	5,938,073	7,898,493
Total value of output		4,944,800	3,923,806	4,867,464	7,700,895	10,046,710
Value of production		1,599,998	903,008	1,121,412	1,640,607	1,966,799

7. Iron and Steel Works and Engineering.—(i) General. In 1945-46 the classification of factories was amended to provide for the tabulation in four separate groups of those industries previously included under Iron and Steel and Engineering. The first group (Smelting, Converting, Refining and Rolling of Iron and Steel) covers blast furnaces, steel works and rolling mills. The second group, Foundries (Ferrous), covers those engaged in the founding of iron and steel. The third group (Plant, Equipment and Machinery including Machine Tools) covers those industries engaged in the production of boilers, engines, machines including machinery, machine tools, structural steel fabrications, steel furniture, etc. The fourth group (Other Engineering) includes jobbing and general engineers not elsewhere included. CHAPTER XXIV .--- MANUFACTURING INDUSTRY.

(ii) Smelting, Converting, Refining and Rolling of Iron and Steel, including Foundries (Ferrous). In the following table particulars are given for 1945-46 for each State for those industries included under the groups Smelting, Converting, Refining and Rolling of Iron and Steel and Foundries (Ferrous). It is not possible to show separate details for each group without contravening the confidential clause of the Census and Statistics Act.

SMELTING, CONVERTING, REFINING AND ROLLING OF IRON AND STEEL (INCLUDING FOUNDRIES (FERROUS)), 1945-46.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
			·		·		
Number of factories	76	. 222	i 9	. 18	14		3 19
Number of persons engaged	10,456	3,867	376	603	455		15,757
Value of land and buildings £	2,060,673	681,795	37,007	341,560	63,702		3,184 737
Value of plant and machinery £	5,067,113	570,655		529 098	72 276	• •	6,288,272
Salaries and wages paid £	4,130,640	1,207,679	133,220	163,558	140.550		5,775,647
Value of power, fuel, etc., used£	2,525,899	165,456	7,40.1	216,161	23,153		2,938,073
Value of materials used £	19,059,865	966,935	108,793	104,742	103,443	••	20,343,778
Total value of output £	28,099,164		342.577	547.984	335,761		33,016,192
Value of production . £	7,413,400	1,658,315	226,380	227,081	209,165	••	9,734,341

(iii) Plant, Equipment and Machinery including Machine Tools. In the next table particulars are given for 1945-46 for those industries included in the third group mentioned above.

PLANT, EQUIPMENT AND MACHINERY (INCLUDING MACHINE TOOLS), 1945-46.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories	573	315	56	45	49		1,038
Number of persons engaged	23,966	14,720	2,546	3,243	1,648		46,123
Value of land and buildings £	4,012,690	2,410,725	275,190	262,303	265,817	••	7,226,725
Value of plant and machinery £	3,521,880	2,577,135	270,001	376,699	299,917	••	7,045,632
Salaries and wages paid £	7,497,968	4,622,060	736,736	934,698	467,122		14,258,584
Value of power, fuel, etc., used£	292,776	208,117	37,694	44,449	22,145		605,181
Value of materials used £		5,914,156	610,682	1,112,050	568,856		16,454,459
Total value of output £	19,486,008	13,154,372	1,651,834	2,540,116	1,271,617		38,103,947
Value of production		7,032.099	1,003,458			••	21,044,307

(iv) Other Engineering. Details covering jobbing and general engineering worke are given for each State for 1945-46 in the following table.

OTHER ENGINEERING, 1945-46.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories	357 2,298	344 6,516	47 521	105 2,681	439	38 657	963 13,112
Value of land and buildings £ Value of plant and machinery £ Salaries and wages paid £	569,531 318,506 526,959	1,195,642 1,145,793 1,970,270	90,442 47,135 142,181	310,772 384,015 701,989	62,300	114,466 132,871 186,221	2,369.299 2,090,620 3,633,799
Value of power, fuel, etc., used£ Value of materials used £ Total value of output £		2,026,670	5.780 142,863 348,765	34,506 631,083 1,643,945	95,728	8,464 127,600 375,729	161,528 3,598,823
Value of production £	924,919	2,922,161	200,122	978,356		239,665	9,192,758 5,432,407

8. Extracting and Refining of Other Metals; Alloys.—(i) Details for each State. The following table gives particulars of metal extraction and ore reduction works, other than those connected with iron and steel. The returns exclude ore reduction works operating at mines.

EXTRACTING AND REFINING OF OTHER METALS ; ALLOYS, 1945-46.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust. (a)	Tas.	Australia.
Number of factories	17 1.372 283,111 1,152,054 506,885 257,870 7,903,321 10,113,113	(b) (b) (b) (b) (b)	8 827 282,233 865,011 285,407 73,255 1,099,128 1,993,580	2 1,423 (b) (b) (b) (b) (b) (b)	··· ··· ···	783,051 329,903 2,344,246	1,384,721 3,795,038
Value of production £	1,951,922		δ21,197	(6)			5,526,906

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

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

EXTRACTING AND REFINING OF OTHER METALS : ALLOYS : AUST	RALIA.
---	--------

Items.		1938-39.	1942-43.	1943-44.	1944-45.	1945-46
Number of factories Number of persons engaged Value of land and buildings Value of plant and machinery Salaries and wages paid Value of power, fuel, etc., used Value of materials used Total value of output Value of production	··· £			17,755,594	40 5.885 1,359,548 3,816,583 2,173,352 1,033,829 16,567,693 22,750,733 5,149,211	49 6,060 1,384,721 3,795,038 2,279,972 1,057,934 18,042,070 24,626,910 5,526,906

9. Electrical Machinery, Cables and Apparatus.—(i) Details for Each State. The following table shows particulars of this industry for each State during 1945-46 :--

ELECTRICAL MACHINERY, CABLES AND APPARATUS, 1945-46.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories	135,325 5,159,170 11,522,910	6,399 933,375 589,418 1,740,827 58,102 2,364,669	24 469 79,810 34,386 127,533 3,155 171,860 373,121 198,106	39 769 247,111 61,450 169,368 7,745 215,239 461,310 238,326	36 459 79,233 25,588 110,761 3,474 133,817 308,314 171,023	9 84 18,953 8,727 20,121 928 40,688 78,658 37,042	551 22,825 3,507,375 2,084,018 6,301,035 208,729 8,085,443 17,789,829 9,495,657

(ii) Total for Australia. The increased output of electrical energy in Australia within recent years, referred to in par. 40 below, caused a corresponding demand for electrical equipment. Difficulties, due to war, in obtaining electrical equipment from abroad have been responsible for considerable development in the manufacture of electrical goods and equipment in Australia, as shown in the following table.

ELECTRICAL MACHINERY, CABLES AND APPARATUS : AUSTRALIA.

Items.			1938–39.	1942-43.	1943-44.	1944-45.	1945-46
Number of factories			360	401	431	475	55
Number of persons engaged			10,666	19,442	20,659	21,669	22,82
Value of land and buildings		£	1,627,183	2,442,968	2,713,999	2,829,443	3.507.37
Value of plant and machinery		£	896,553	1,600,093	1,724,045	1,806,169	2,084,018
Salaries and wages paid	••	£	2,031,098	5,280,102	5,710,782	5,857,210	6,301,03
Value of power, fuel, etc., used		£	104.594	186,983	193,542	190,677	
Value of materials used .		£	3,195,032	7,788,397	7,804.575	7,991,641	8,085,44
Total value of output		£	6,954,498	15,875,437	16,346,709	16,892,366	17,789,82
Value of production		£	3,654,872	7,900,057	8,348,592	8,710,048	9,495,65

10. Railway and Tramway Workshops.—(i) Details for each State, 1945-46. 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 10 in 1945-46 have been excluded :—

TRAMCARS, RAILWAY ROLLING STOCK AND CARRIAGES, ETC.(a), 1945-46.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories Number of persons engaged Value of land and buildings £ Value of plant and machinery £ Salaries and wages paid £ Value of power, fuel, etc., used£ Value of materials used £ Total value of output £ Value of production . £	3,013,916 4,831,165 140,755 3,585,005 9,465,324	25 7,262 1,487,546 1,116,680 2,344,878 68,369 1,823,103 4,525,198 2,633,726	557,175 441,016 1,827,188 41,979 1,118,797 3,310,325	1,055,734 953,032 1,610,395 75,321 923,976 2,870,662	35,272 621,189 1,782,038	51,008 241,515 10,169 71,276 355,256	115 36,962 6,960,491 6,034,499 11,656,718 371,865 8,143,346 22,308,803 13,793,592

(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 of this establishment are not included in any of the tables in this chapter.

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

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

				· · · •			
Items.			1938-39.	1942-43.	1943-44.	1944-45.	1945-46.
Number of factories					116	116	
Number of persons engaged		•••	27,310	38,721	39,058	37,972	36,962
Value of land and buildings Value of plant and machinery		£	6,736,924	6,765,186 5,684,696	6,902,264 5,707,808	6,911,284 5,824,728	6,960,491 6,034,499
Salaries and wages paid Value of power, fuel, etc., used		£	6,720,990 226,108	12,943,437	13,407,931	12,463,846	11,656,718
Value of materials used		£	4,976,353	7,731,445	8,590,203	8,056,849	8,143,346
Total value of output	• •	£	8,020,653	15,307,615	24,947,557	14,624,169	13,793,592
				:		<u>}</u>	ŧ.

(a) Government and Municipal only.

11. Motor Vehicles.—The industries catering for the motor trade are included in Class IV. "Industrial Metals, Machines and Conveyances". In the table below a summary is given of the principal statistics for 1945-46 for each branch of industry associated with the motor trade of Australia.

MOTOR VEHICLES : CONSTRUCTION, ASSEMBLY, REPAIRS, ETC. : AUSTRALIA, 1945-46

. 9	40	-4	0

	-				-	
Items.		Construc- tion and Assembly,	Body Building.	Repairs.	Acces- sories.	Total.
Number of factories Number of persons engaged Value of land and buildings Value of plant and machinery Salaries and wages paid Value of power, fuel, etc., use Value of materials used Total value of output Value of production		 42 4.077 1,042 157 468,264 1.346,248 51,910 2,207,317 4,042,078 1,782,851	212 10,682 1,633,292 1,149,305 3,298,350 87,707 3,451,005 7,879,250 4,340,538	3,230 21,012 6,555,724 1,661,219 4,790,367 195,504 5,301,402 13,337,929 7,841,023	108 3.935 644,787 478,784 1,147.049 59,603 1,183,549 3,097,050 1,853,898	3,592 39,706 9,877,960 3,757,572 10,582,014 394,724 12,143,273 28,356,307 15,818,310

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

MOTOR VEHICLES : CONSTRUCTION, ASSEMBLY, REPAIRS, ETC., 1945-46.

Items.	N.S.W.	Victoria.	Q'land. S.	. Aust.	W.Aust.	Tas, (a)	Australia
Number of factories	2,696,270 115,465 3,519,661 7,802,179	3,585,520 1,636,123 4,070,174 149,416 4,999,858 11,645,782	4,312 712,017 9 258,874 6 1,040,653 2,0 41,130 1,091,694 1,7	59,828 711,837 289,914	195,455 501,984 23,677 614,993	61,261 208,995 5,208 205,230 528,133	9,877,960 3,757,572 10,582,014

(a) Includes horse-drawn vehicles.

The table below shows the output of motor bodies together with the number imported into Australia for 1938-39 and the years 1941-42 to 1945-46 :---

ltems.	1938-39.	1941-42.	1942-43.	1943–44.	1944-45.	1945-46.
Motor Bodies Number made Value Number imported Value	No. 79,436 £ 6,421,142 No. 532 £A 70,943	62,731 4,321,988 16 2,261	44,286 4,652,771 270 71,405	29,309 2,582,912 694 66,175	22,805 2,530,043 6 1,423	19,473 2,356,778 223 37,410

MOTOR BODIES : PRODUCTION AND IMPORTS, AUSTRALIA.

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

Items.	1938-39.	1941-42.	1942-43.	1943-44.	1944-45.	1945-46.
	76,094 8,037,228					

MOTOR CHASSIS : IMPORTS, AUSTRALIA.

12. Agricultural Machines and Implements.—(i) General. The manufacture of agricultural implements is an important branch of industry in Australia because of the extensive agricultural activities. The articles manufactured include a wide range of 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. The following table gives details of agricultural implement works in each State for 1945-46 :--

AGRICULTURAL MACHINES AND IMPLEMENTS, 1945-46.

Items.	N.\$.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories Number of persons engaged Value of land and buildings £ Value of plant and machinery £ Salaries and wates paid £ Value of power, fuel, etc., used£ Value of materials used £ Total value of output £ Value of production £	21,252 415,819 1,193,569	57 4,905 609,043 719,690 1,584,777 120,141 1,568,582 3,747,487 2,058,764	15 87,577 114,276 344,680 16,493 257,882 707,503 433,128	34 1,449 164,909 197,193 399,801 27,420 450,972 967,334 488,942	9 162 45,971 8,891 46,640 844 24,047 85,451 60,560	· · · · · · · · · · · · · · · · · · ·	172 9,510 1,199,952 1,229,597 12,893,892 186,150 2,717,302 6,701,344 3,797.892

(iii) Total for Australia. Comparative statistics for 1938-39 and the years 1942-43 vo 1945-46 are given hereunder :---

Items.			1938-39.	1942–43.	1943-44.	1944-45.	1945-46.
Number of factories		 	161	144	145	146	171
Number of persons engaged			6,563	9.457	9.178	9,149	9,510
Value of land and buildings		£	996,949	1,037,513	1,046,702	1,035,331	1,199,952
Value of plant and machinery		£	910,520	1,093,853	1,121,625	1,265,985	1,229,597
Salaries and wages paid		£	1,373,213	2,954,294	2,821,968	2,745,909	2,893,892
Value of power, fuel, etc., used		£	81,736	215,379	198,680		186,150
Value of materials used		£	1,485,018	2,762,748	2,822,460	2,817,698	2,717,302
Total value of output		£	3.403.091	6,727,818	6,604,402	6,589,942	6,701,344
Value of production		£	1,836,337	3,749,691	3,583,262	3,584,274	3,797,892

AGRICULTURAL MACHINES AND IMPLEMENTS : AUSTRALIA.

13. Wireless and Amplifying Apparatus.—The introduction of wireless broadcasting in 1923 gave rise to a new industry in Australia. Early statistical details of the industry are not available as they were grouped together with other electrical apparatus. In 1930-31 a new classification of factories was adopted and "Wireless Apparatus" was shown as a separate industry. The industry is confined almost entirely to New South Wales and Victoria. The number of broadcast listeners' licences increased from 331,128 in 1930-31 to 1,506,180 in 1945-46 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 but there was a recession in output in 1945-46.

WIRELESS AND AMPLIFYING APPARATUS : AUSTRALIA.

Items.		1938–39.	1942-43.	1943-44.	1944-45.	1945-46.
Number of factories Number of persons engaged Value of land and buildings Value of plant and machinery Salaries and wages paid Value of power, fuel, etc., used Value of materials used Total value of output Value of production	· · · · · · · · · · · · · · · · · · ·	 72 4,828 557,953 305,468 754,302 23,525 1,355,683 2,502,338 1,123,130	73 9,554 754,977 544,023 2,429,430 58,517 2,944,653 6,180,276 3,177,106	85 11,020 895,642 613,088 2,959,291 68,553 3,379,511 7,190,028 3,741,964	89 10,534 998,470 643,914 2,784,985 70,055 3,445,575 7,290,352 3,774,722	97 8,709 969,105 711,805 2,295,866 58,240 3,446,056 6,514,935 3,010,639

The number of domestic receiving sets assembled in 1945-46 was 93,048 and the number of domestic chassis made was 76,587 compared with 163,821 and 123,655 respectively in 1938-39.

14. Cotton.—(i) General. Cotton has been grown in Australia since 1860, but never on a very large scale. The average annual quantity of unginned cotton produced during the five years ended 1938-39 was 18 million lb. and slightly under 14 million lb. in the five years ended 1945-46. Arising out of the development in the local manufacture of cotton materials and the further expansion following the outbreak of war in 1939, plans were completed for an extension of the area devoted to the cultivation of this crop, but since the commencement of the Pacific War there has been a definite downward trend. The growing of cotton, which is restricted to Queensland, is referred to in some detail in Chapter XX. "Agricultural Production".

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

(iii) Spinning and Weaving. The recent expansion in the spinning and weaving section of the cotton industry marks an important event in its development. New factories have been established and Australia is now producing an extensive range of

cotton goods, including duck and canvas from cotton or flax, denims, drill, etc., tyre cord and tyre cord fabric. The number of establishments engaged in cotton spinning and weaving in Australia and other particulars of the industry are given in the following table for the four years ended 1945-46 in comparison with 1938-39.

Items.			1938–39.	1942-43.	1943-44.	1944-45.	1945-46.
Number of factories	•••		33 3,589	69	70	.74	78
Number of persons engaged	••	••	3,589	7,868	7,908	7,667	7,253
Value of land and buildings	••	£	703,790	1,396,304	1,427,401	1,523,800	1,529,150
Value of plant and machinery		£	735,529	2,177,698	2,080,785	2,170,792	1,913,77
Salaries and wages paid		£	493,109	1,655,233	1,768,268	1,732,481	1,714,660
Value of power, fuel. etc., used		£	50,011	133,138	142,534	146,726	149,990
Value of materials used		£	1,357,280	4.547.556	5,375,438	5.370.733	4,559,560
Total value of output		£	2,385,990		8,930,324	8,879,653	7,936,716
Value of production		£	978,699	3,010,426	3,412,352	3,362,194	3,227,160

COTTON SPINNING AND WEAVING : AUSTRALIA.

15. Woollen Mills.—(i) Details for each State. The importance of this industry is emphasized by the fact that Australia is the world's chief source of wool and the development of the woollen industry since its establishment at an early period in Australian history is of singular interest. The production consists chiefly of woollen cloth and tweed, worsted cloth, rugs, blankets and yarn, all of which have acquired a reputation for purity and durability. The following table gives particulars for 1945-46 :—

WOOLLEN MILLS, 1945-46.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia
Number of factories Number of porsons engaged Value of land and buildings £ Value of plant and machinery £ Salaries and wages paid £ Value of materials used £ Value of materials used £ Total value of output £ Value of production £	1,655,356 144,693 3,994,650	1,600,950 1,410,896 2,855,086 287.645 6,564,947 11,752,967	(a) (a)	3 577 39,668 70,046 139,082 22,692 351,735 600,012 225,585	(a) (a) (a) (a) (a)	224,590 162,675 507,197 36,951 1,141,395 2,002,206	5,324,388

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

(ii) Total for Australia. The extent of the woollen mill industry in Australia in the years 1942-43 to 1945-46 compared with 1938-39 is shown in the following table Detailed particulars for the several States are not available for publication.

Items. 1938-39. 1942-43. 1943-44. 1944-45. 1945-46 (a) (a) (a) (a) Number of factories 118 116 122 19,608 23,095 2,996,246 26,436 2,816,658 21,536 3,028,066 Number of persons engaged • • 24,858 2,867,297 2,995,835 5,896,320 658,800 Value of land and buildings ÷ 2,380,009 . . 3,369,517 2,887,907 Value of plant and machinery 3,178,704 2,967,911 5,484,589 ££££ 2,925,811 . . Value of power, fuel, etc., used Value of materials used 5,967,770 5,324,388 ۰. 392,537 655,981 609,139 13,780,546 511,416 • • 7,331,117 16,604,441 • • 15,455,106 12,314,413 £ 12.514.610 25,433,289 9,319,383 23,250,907 8,861,222 27,335,695 Total value of output 21,776,979 4.790,956 8,336,226 17,986,091 Value of production . Woolien cloth and tweed £ 8,951,150 16,707,262 10,075,273 . . sq. yd. 14,516,085 13,055,199 12,679,864 • • 23,767,429 1,462,887 19,944,042 1,840,316 12,643.557 Worsted cloth ... 17,296,854 . • • ,, Serge • • ,, 792,314 1,395,201 1,022,388 Flannel-For outer clothing 2,143,835 1,276,814 2,611,476 2,205,174 2,192,849 ۰. ,, 1,557,373 813,530 For underwear (pure). . 3,813,354 1,566,932 •• 2,704,382 2,020,022 ,, 552,144 218,431 For underwear (mixtures) • • 185,630 655,803 pair Blankets 981,036 • • 573,795 1,687,729 1,597,395

WOOLLEN MILLS : AUSTRALIA.

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

16. Hosiery and Other Knitted Goods.—(i) Details for each State. In addition to the woollen mills there were 376 hosiery and knitting mills operating in Australia during 1945-46. The total number of persons engaged in these establishments was 17,091, of whom 12,502 were females. Details for each State are shown in the following table :--

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories Number of persons engaged Value of land and buildings £ Value of plant and machinery £ Salaries and wages paid £ Value of power, fuel, etc., used£ Value of materials used £ Total value of output £ Value of production £	432,830 1,086,669 41,278	2,501,753 139,026 4,606,556 8,615,732	I 211 (a) (a) (a) (a) (a) (a) (a) (a)	7 88 16,040 2,916 15,799 580 23,118 51,409 , 27,711	5 127 16,167 8,082 20,895 1,308 60,817 104,935 42,810	(a) (a) (a) (a) (a) (a) (a) (a)	376 17,091 2,444,369 1,358,482 3,687,445 185,159 7,202,997 13,252,876 5,864,720

HOSIERY AND OTHER KNITTED GOODS, 1945-46.

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

(ii) Total for Australia. Comparative statistics for 1938-39 and the years 1942-43 to 1945-46 are shown in the following table :--

, Items.		1938-39	. , 1942-43.	1943-44.	1944-45.	1945-46.
Number of factories Number of persons engaged Value of land and buildings Value of plant and machinery Salaries and wages paid Value of power, fuel, etc., used Value of materials used Total value of output Value of production	•••	31 18,15; 1,962,33; 1,930,56; 2,331,55; 4,284,21(8,226,46; 3,809,09;	15,654 2,172,979 1,455,583 2,930,842 164,534 7,599,088 13,095,997	3,187,545 168,218 7,873,375 13,771,177	363 16,691 2,354,232 1,295,962 3,290,370 169,935 7,141,525 13,038,366 5,726,906	376 17,091 2,444,369 1,358,482 3,687,445 185,159 7,202,997 13,252,876 5,864,720

(iii) Raw Materials used and Production, 1945-46. The main raw materials consumed in establishments manufacturing hosiery and other knitted goods during 1945-46 consisted of woollen yarn, 8,203,549 lb; cotton yarn, 5,954,517 lb.; and rayon yarn, 5,984,051 lb. Production comprised 30,142,339 garments, valued at \pounds 6,983,517; 1,194,839 dozen pairs of stockings, valued at \pounds 2,164,264; and 1,692,714 dozen pairs of socks, valued at \pounds 1,900,357.

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

TANNING,	CURRYING	AND	LEATHER	DRESSING,	1945-46.
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Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia
Total value of output £	3,293,731	44 2,257 497,837 298,080 778,865 60,094 2,142,697 3,430,200 1,227,409	14 499 51,678 61,702 152,560 11,359 569,530 845,379 264,490	11 146 (a) (a) (a) (a) (a) (a) (a)	5 154 40,729 30,506 46,968 3.909 170,556 263,007 88,542	$(a) \\ (a) $	152 5,022 1,048,240 704,551 1,662,156 127,824 5,237,697 8,055,696 2,690,175

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

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

TANNING, CURRYING AND LEATHER DRESSING : AUSTRALIA.

Items.		1938~39.	1942-43.	1943-44.	1944-45.	1945-46
Number of factories	 	132	138	 I42	147	152
Number of persons engaged	 	4,375	4,647	4,631	4,668	5,022
Value of land and buildings	 £	813,713	906,896	919,016	952,161	1,048,240
Value of plant and machinery	 £	523,538	531,661	543,796	605,625	704,551
Salaries and wages paid	 £	919,781	1,453,026	1,495,549	1,520,672	1,662,156
Value of power, fuel, etc., used	 £	87,670	124,261	135,568	131,818	127,824
Value of materials used	 £	2,983,041	5.001.880	5,007,149	4,959,660	5,237,697
Total value of output	 £	4,592,642	7,461,144	7,569,327	7,552,095	8,055,696
Value of production	 £	1,521,931	2,335,003	2,426,610	2,460,617	2,690,175

(iii) Raw Material Used and Production. The quantities of raw material used and leather produced in tanneries in each State in 1945-46 are shown in the following table. Some leather is also produced in works other than tanneries, but this is excluded.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Hides. No.	789,430	942,669	310,791	(a)	95,577	(a)	2,218,11
Calf ,,	687,047	699,480	170,096	3,783	1,060		1,561,460
Goat	731,162	(a)	(a)	(a)	1 1		840,810
Sheep	1,638,537	576.619		(a)	180	(a)	2,506,20
Marsupial	30,782	26,239	(a)	, (a)	(a)		67,92
Pelts treated	1,529,887	462,330			1,560		1,993,77
Bark used—	1,329,007	402,330			1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		*19931/7
Wattle tons	3,314	4,854	1,936	(a)	(a)	(a)	11,036
Other	588	4,034	(a)				1,92
	12,328,159	8,535,861	3,401,346	(a)	1,921,559	(a)	26,404,54
Leather made—	12,320,139	0,333,001	3,401,340	()	1,9-1,539	(4)	20,404,34
	11,753,271	13,039,543	6,774,438	866,790	(a)	(a)	34,790,81
Warnoga	763,862		580,762	50,041	30,922		1,959,01
Upholstery sq. ft.		533,430 (a)	500,702	(a)	1	••	5,877,06
Dressed and Upper from	3,835,039	(4)		(4)		••	5,077,00
Hides					1		
Sold by Measure-	1	1		1	i		
ment-	ŧ.						1
				1	1		
Patent sq. ft.	1,281,945	1,177,753	1- 000 -00	1	1		2,459,69
All Other ,,	10,123,522	14,911,458	3,868,158	1,411,838	(a)	(a)	31,035,89
Sold by Weight			1	1	1		1
Waxed Kip lb.	(a)	(a)	(a)	63,362	8,718	(a)	106,060
All Other ,,	749,561	864,694	(a)	51,914	(a)	(a)	1,673,343
Dressed from skins	-						
Calf sq. ft.	5,112,853	5,053,542	(a)	, (a)	(a)		11,185,480
Goat,	3,369,440	(a)	(a)	i (a)	1	• •	3,848,83
Sheep ,,	11,588,469	3,009,100	(a)	(a)	(a)	• •	15,065,69
Marsupial "	77,249	517,662	31,601	3,000	2,503	• • •	632.01

TANNERIES: RAW MATERIAL USED AND PRODUCTION, 1945-46.

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

18. Tailoring and Réady-made Clothing Factories.—(i) Details for each State. Statistics showing the distribution in 1945-46 of this industry between States are shown in the following table :—

TAILORING AND READY-MADE CLOTHING FACTORIES, 1945-46.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust,	Tas.	Australia.
Number of factories Number of persons engaged Value of land and buildings £ Value of plant and machinery £ Salaries and wages paid £ Value of power, fuel, etc., used£ Value of materials used £ Total value of output £ Value of production £	443,286 2,796,896 53,747 4,689,717 9,198,299	1,058,076 263,292 1.675,620 41,520	125 2,756 272,336 48,470 453,417 8,863 758,193 758,193 1,535,989 768,933	40,635 351,925 7,724 319,359 834.629	96 1,000 164,767 20,136 150,330 3,409 203,729 452,939 2452,801	25 469 66,247 12,876 78,426 1,353 79,069 188,799 108,377	1,420 30,047 4,141,584 828,695 5,506,614 116,616 9,616,801 18,614,368 8,880,951

(ii) Total for Australia. Details for the four years 1942-43 to 1945-46 compared with 1938-39 are as follows :---

|--|

Items.		1 1938-39.	1942-43.	1943-44.	1944-45.	1945-46.
Number of factories Number of persons engaged Value of land and buildings Value of plant and unachinery Salaries and wages paid Value of power, fuel, etc., used Value of materials used Total value of output Value of production	··· ·· ·· ·· ··	 1,177 26,499 3,175.748 355.503 3,168,472 72.431 4,946,519 9,830,646 4,811,696		4,543,027 98,915 8,843,064 16,189,527	1,268 28,108 3,728,531 689,437 4,970,774 104,945 9,416,961 17,588,937 8,067,031	1,420 30,047 4,141,584 828,695 5,506,614 116,616 9,616,801 18,614,368 8,880,951

19. Dressmaking, Hemstitching and Millinery Establishments.—(i) Details for each State. Particulars of dressmaking (including hemstitching) and millinery establishments are given separately in the following tables for 1945-46.

DRESSMAKING, HEMSTITCHING ESTABLISHMENTS, 1945-46.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas. (a)	Australia.
Number of factories Number of persons engaged Value of land and buildings £ Salaries and wages paid £ Value of power, fuel, etc., used£ Value of materials used £ Total value of output £ Value of production £	154 1,856 264,916 29,580 262,865 3,145 265,295 682,012 413,572	483 9,880 1,513,003 195,433 1,782,477 31,669 3,487,894 6,408,703 2,889,140	43 903 80,902 19,122 125,448 2,245 138,967 348,252 207,040	65 1,180 115,877 23,094 153,715 3,145 142,308 383,678 238,225	63 1,113 136,486 27,498 134,801 2,424 183,923 417,841 231,494	11 105 14,594 2,705 13,536 364 13,552 36,376 22,460	819 15,037 2,125,778 297,432 2,472,843 42,992 4,231,939 8,276,862 4,001,931

(a) Includes Millinery.

MILLINERY ESTABLISHMENTS, 1945-46.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas. (a)	Australia.
Yumber of factories Yumber of persons engaged Yalue of land and buildings £ Yalue of plant and machinery £ Salaries and wages paid £ Yalue of power, iuel, etc., used£ Yalue of materials used £ Cotal value of output £ Yalue of production £	79 1,265 294,080 16,406 226,202 3,143 420,509 874,671 449,019	231,880 40,149 239,235 7,500 481,919 1,006,133	15 365 44,309 6,552 63,496 954 84,520 229,287 143,813	13 195 25,640 1,438 31,240 682 51,716 103,430 51,032	3 37 1,930 88 4,683 108 9,830 17,409 7,471	··· ·· ·· ·· ··	179 3,014 597,839 64,631 564,856 14,387 1,048,494 2,230,930 1,168,049

(a) Included in Dressmaking.

(ii) Total for Australia. Particulars of dressmaking, hemstitching and millinery establishments in Australia for the four years ended 1945-46 compared with 1938-39 are shown in the following table :--

DRESSMAKING, HEMSTITCHING AND MILLINERY ESTABLISHMENTS : AUSTRALIA.

Items.	_	1938-39.	1942-43.	1943-44.	1944-45.	1945-46.
Number of factories Number of persons engaged Value of land and buildings Value of plant and machinery Salaries and wages paid Value of power, fuel, etc., used Value of materials used Total value of output Value of production	••	76 208	1,913,297	838 13,822 2,149,258 237,809 2,134,257 39,699 4,093,738 7,874,479 3,741,042	904 15,604 2,335,994 279,771 2,436,294 45,088 4,601,884 8,806,159 4,159,187	998 18,051 2,723,617 362,065 3,037,698 57,379 5,280,433 10,507,792 5,169,980

20. Shirts, Collars and Underclothing.—(i) Details for each State. Particulars of this industry are shown for 1945-46 in the following table :--

· · · · · · · · · · · · · · · · · · ·	· · ·	· ·	· - · ·	-			
Items.	n.s.w.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories	178	108	18	27	16	• •	347
Number of persons engaged	4,888	3,266	872	478	398	••	9,902
Value of land and buildings £	691,693	482,659	54.333	38,056	44,122	••	1,310,863
Value of plant and machinery £	215,397	132,677	27,860	12,020	8,643	••	396,597
Salaries and wages paid £	873,950	583,571	142,509	72,782	55,701	••	1,728,513
Value of power, fuel, etc., used£	14,525	12,455	2,354	1,445	847	••	31,626
Value of materials used £	2,249,802	1,856,752	149,165	88,008	102,014	• •	4.445.741
	3,595,513	2,762,321	336,350	198,901	185,736		7,078,821
	1,331,186		184,831	109,448	82,875	••	2,601,454
-		1		-			

SHIRTS, COLLARS AND UNDERCLOTHING, 1945-46.

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

SHIRTS, COLLARS AND UNI	DERCLOTHING :	AUSTRALIA.
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Items.		1938–39.	1942-43.	1943-44.	1944-45.	1945-46.
Number of factories Number of persons engaged Value of land and buildings Value of plant and machinery Salaries and wages paid Value of power, fuel, etc., used Value of materials used Total value of output Value of production	· · · · · · · · · · · · ·	 283 11,081 945,972 230,579 1,142,855 23,639 2,650,779 4,435,209 1,760,791	293 9,851 1,028,651 259,913 1,443,680 25,858 4,353,022 6,605,309 2,226,429	298 9,716 1,079,603 275,596 1,574,283 26,162 4,874,577 7,339,928 2,439,189	320 9,984 1,145,703 315,196 1,673,929 27,707 4,968,808 7,697,154 2,700,639	347 9,902 1,310,863 396,597 1,728,513 31,626 4,445,741 7,078,821 2,601,454

21. Boot and Shoe Making and Repairing.—(i) Boot and Shoe (not Rubber) Factories 'The boot and shoe factories hold an important place both in regard to employment afforded and extent of output. The following table relates to 1945-46 and refers to boot and shoe factories as distinct from those devoted to repairing and bespoke work. Factories engaged in the manufacture of rubber boots and shoes are excluded, being classified under Rubber Goods (Including Tyres made); vide para. 38.

BOOT AND SHOE (NOT RUBBER) FACTORIES, 1945-46.
--

Items.	N.8.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia
Value of power, fuel, etc., used£ Value of materials used £ Total value of output £	23,682 2,347.191 4,437,680	195 9,464 742,870 630.515 2,353,753 41,482 4,150,012 7,765,401 3,573,907	22 956 47,417 76,802 222,316 3,023 396,397 723,572 324,152	18 1,180 74,924 106,764 260,456 3,990 390,202 714,959 320,767	10 515 53,571 47,466 116,655 2,411 191,861 350,227 155,955	4 96 6,395 6,342 22,004 320 43,849 74,542 30,373	383 18,264 1,518,311 1,222.376 4,407,614 74,908 7,519,512 14,066,381 6,471,961

(ii) Boot and Shoe Repairing, including Bespoke Work. The introduction of small power plants in repairing shops brought this class of establishment within the meaning of a factory for statistical purposes. Shops using small power plants are widely distributed throughout Australia, and in 1945-46 numbered 1,477 employing 2,981 persons. The sum of £341.217 was distributed in salaries and wages, and the output was valued at £1.470.103.

(iii) Quantity and Value of Production. The number and value of boots, shoes and slippers made at factories in each State are shown for 1945-46 in the following table. Particulars relating to the output of rubber boots and shoes are not included :---

Particu	lars.		N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
		-	-	QUANT	ITY.				
Boots and shoes Slippers Uppers (b)		pairs 		7,031,105 3,246,022 44,916	692,563 674,048 (a)	889,683 325,418 (a)	318,629 337,359 35,470	93,350 (a)	14,041,834 6,779,450 89,358
	_			VALU	Е.				
Boots and shoes Slippers Uppers (b)	 	£ £	3,608,453 440,738 (a)	5,566,946 666,839 26,456	472,910 176,469 (a)	625,446 49,280 (a)	212,813 75,233 2,443	67,325 (a)	10,553,893 1,408,559 36,500

BOOT AND SHOE (NOT RUBBER) FACTORIES OUTPUT, 1945-46.

(a) Not available for publication; figures are included in total for Australia. (b) Made for other than factory use.

22. Flour-milling.—(i) Details for States. The following table shows the position of the grain-milling industry in each State for the year 1945-46.

FLOUR-MILLING, 1945-46.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.	
	1		-				1	
Number of factories	54 (40	10	39	19	8	170	
Number of persons engaged	1,403	1,021	424	622	487	142	4,099	
Value of land and buildings £	854,211	688,849	183,664	203,404	239,774	74,079	2,243,981	
Value of plant and machinery £	725,274	497,473	152,318	231,746	198,660	29,955	1,835,426	,
Salaries and wages paid £	487,008	343,275	132,177	204,284	166,582	42,622	1,375,948	
Value of power, fuel, etc., used£	99,166	69,630	22,757	49,660		5,278	299,597	
			1,231,062	1,863,323	1,879,284	385,749	14,180,128	
Total value of output £	6,276,225						16,847,086	
Value of production £	909,251	599,944	212,908	295,853	296,001	53,404	2,367,361	
							1	

(ii) Production of Flour and By-products. The production of flour by the mills in each State for the years 1938-39 and 1942-43 to 1945-46 was as follows :---

FLOUR-MILLING: PRODUCTION OF FLOUR.

(Tons of 2,000 lb.)

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
1938–39 1942–43 1943–44 1944–45 1945–46	547,162 363,452 496,853 516,168 451,895	436,829 288,134 409,190 393,036 315,525	84,314 102,864 125,603 124,473 96,984	 97,826 149,892 194,967 164,986	138,583 126,274 159,799 161,690 166,791	19,582 16,812 17,153 22,534 22,657	1,372,732 995, 3 62 1,358,490 1,412,868 1,218,838
	!						

The 1945-46 production of 1,218,838 tons of flour in Australia was valued at $\pounds_{12,083,745}$. In addition, 493,878 tons of bran and pollard, valued at $\pounds_{2,881,914}$, were made. The quantity of wheat ground was 63,416,122 bushels.

23. Bakeries.—Information regarding establishments in which the manufacture of bread, cakes, etc., was carried on in the year 1945-46 is given in the table below. It should be noted, however, that the details refer only to establishments coming within the definition of a factory, as explained in § 1, par. 1, page 1039. For that reason there is 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 is deemed necessary.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.(a)	Australia
Number of factories Number of persons engaged Value of land and buildings £ Value of plant and machinery £ Salaries and wages paid £ Value of power, fuel, etc., used£ Value of materials used £ Total value of output £ Value of production £	7,431,375	1,667,986 477,092 930,304	1,918 545,682 202,976 404,209 64,368 1,550,260 2,599,161	335,847 175,996 273,351 44,178 850,657	695 269,763 85,272 140,982 27,684 514,660 876,349	104,508 262,062 33,996 848,338 1,362,691	14,535 6,221,602 1,804,283 3,314,378

BAKERIES (INCLUDING CAKES AND PASTRY), 1945-46.

(a) Includes confectionery.

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

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

(ii) Details for New South Wales. The following table gives details of the operations of sugar mills in New South Wales for the years 1911, 1938-39, and each year 1943-44 to 1945-46 :=

SUGAR-MILLS : NEW SOUTH WALES.

Items.	1911.	1938–39.	1943-44.	1944-45.	1945-46.
Number of factories .		3	3	3	_3
Númber of employees .	. 469	212	317	248	283
Cane crushed ton	8 147,799	337,038	290,364	200,050	166,069
Raw sugar produced (94 ne					
titre) ton		45,106	37,442	26,423	21,220
Molasses produced gala	1. 796,440	1.489,090	1,350,400	1,037,600	1,110,000

(iii) Details for Queensland. Particulars relating to the operations of sugar-millin Queensland are shown in the following table for the years 1911 and 1938-39 and each year 1943-44 to 1945-46. Particulars of the production and distribution of molasses ar recorded by the mills are also shown.

Items.	1911.	1938–39.	1943-44.	1944-45.	1945-46.
Number of factories Number of persons engaged	- 49 4,295	33 4,419	33 3,834	32 4,276	32 4,665
Cane crushed tons	1,534,451	5,432,193	3,397,617		4,551,971
Raw sugar produced (94 net titre) tons Molasses—		775,064	486,423	643,520	644,661
Sold to distillers and others gals. Used as fodder ,, Used as manure ,, Run to waste ,,)	2,393,669 789,564 223,000	8,275,887 4,237,196 3,293,543 498,926	7,345,596 3,055,728 2,122,220 97,643	2,745,617	9,380,679 4,675,909 3,074,755 50,902
Burnt as fuel " } Sold or used for	1,847,333 {	3,748,590	2,176,926	2,251,737	1,748,299
other purposes " In stock … "	 1,197,626	232,049	441,522	254,358	423,085
Total molasses "		20,286,191	15,239,635	19,124,751	19,353,629

SUGAR-MILLS : QUEENSLAND.

25. Sugar Refineries.—The establishment of the sugar-refining industry considerably antedates the establishment of the sugar-milling industry, the raw material operated on in the earlier years coming chiefly from Mauritius and the East. In 1945-46 there were two sugar refineries in the State of Queensland, and one in each of the States of New South Wales, Victoria, South Australia and Western Australia. The quantity of raw sugar treated amounted to 446,550 tons, for a yield of 428,130 tons of refined sugar, valued at $\pounds_{13,612,455}$.

26. Confectionery Factories.—(i) Details for each State. The figures for 1945-46 are given hereunder:--

							1
Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Таз.	Australia
Number of factories Number of persons engaged Value of land and buildings £ Value of plant and machinery £ Salaries and wages paid £ Value of power, fuel, etc., used£ Value of materials used £ Total value of output £ Value of production £	73 2,693 795,067 609,017 670,741 59,680 2,412,284 4,066,895 1,594,931	76 2,270 525,911 423,422 541,361 54,838 1,752,250 3,176,177 1,369,089	18 348 81,267 21,575 63,572 5,562 193,790 336,820 137,468	22 324 96,916 37,925 58,363 7,668 174,994 289,563 106,901	9 330 57,160 50,545 55,442 10,764 135,610 252,168 105,794	(a) (a) (a) (a) (a) (a) (a) (a)	198 5,965 1,556,321 1,142,484 1,389,479 138,512 4,668,928 8,121,623 3,314,183

SUGAR CONFECTIONERY FACTORIES, 1945-46.

(a) Not available for publication.

(b) Excluding Tasmania.

INDIVIDUAL INDUSTRIES.

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

Items.		1938–39.	1942-43.	1943-44.	1944-45.	1945-48
Number of factories Number of persons engaged Value of land and buildings Value of plant and machinery Salaries and wages paid Value of power, fuel, etc., used Value of materials used Total value of output Value of production	· · · · · · · · · · · · ·	 148 7,256 1,423,406 1,363,619 1,040,984 106,869 3,101,955 5,627,247 2,418,423	141 5,497 1,400,581 1,230,627 1,142,331 123,729 3,618,711 6,559,961 2,817,521	163 5.796 1,451,329 1,194,194 1,258,561 129,175 4,305,338 7,642,694 3,208,181	182 5,795 1,480,439 1,160.005 1,298,281 134,914 4.504,124 7,933,135 3,294,097	198 5,969 1,556,321 1,142,484 1,389,475 138,512 4,668,928 8,121,623 3,314,183

SUGAR CONFECTIONER	FACTORIES(a)	: AUSTRALIA.
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(a) Excluding Tasmania.

27. Jam, Fruit and Vegetable Canning, Pickles, Sauces, Vinegar Factories.-(i) Details for each State. The following table gives particulars of factories included in this class for 1945-46:---

JAM, FRUIT AND VEGETABLE CANNING, PICKLES, ETC., FACTORIES, 1945-46.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia
Number of factories Number of persons engaged Value of land and buildings £ Value of plant and machinery £ Salaries and wages paid £ Value of power, fuel, etc., used£ Value of materials used £	88,184	1,267,550	13 430 62,556 53,870 110,175 8,295 524,485	944 131,783 122,911 221,198 17,997	233 57,528 57,162 52,221	339,465 30,318	11,403 2,183,654 1,629,979 2,947,366
Total value of output £	5,370,604	8,172,809	734,850 202,070	1,222,995 375,131	326,507	1,836,766	17,664,53

(ii) Total for Australia. Particulars of these establishments in Australia for the four years 1942-43 to 1945-46 compared with 1938-39 are given hereunder :---

JAM,	FRUIT	AND	VEGETABLE	CANNING,	PICKLES,	ETC.,	FACTORIES,
			Al	USTRALIA.			

Items.			1938-39.	1942-43.	1943-44.	1944-45.	1945-46.
Number of factories			123	143	152	168	157
Number of persons engaged			6,476	9,868	11,416	12,858	11,403
Value of land and buildings		£	1,382,150	1,667,493	2,055,850	2,409,005	2,183,654
Value of plant and machinery		£	720.639	913,917	1,195,954	1,652,407	1,629,979
Salaries and wages paid	• •	£	1,148,991	2,225,581	2,740,715	3,065,087	2,947,366
Value of power, fuel, etc., used	••	£	97,521	206,461		327,558	260,070
Value of materials used		£	4,799,515	9,605,024	11,886,635	13,141,842	12,325,75
Total value of output		£	7,230,914	14,009,177		19,169,509	17.664.531
Value of production		£	2,333,878	4,197,692	4,828,875	5,700,100	5,078,694

During the 1939-45 War production of jams and jellies expanded greatly and a record output of 171 million lb. was attained in 1943-44. Production has since receded and stood at 148 million lb. in 1945-46. The peak output of fruit preserved in liquid occurred in 1940-41 when 161.1 million lb. were produced compared with the previous highest level of 157.8 million lb. attained in 1937-38. Production in 1945-46 was lower at CHAPTER XXIV .--- MANUFACTURING INDUSTRY.

107,079,000 lb. On the other hand, there has been a marked development in the production of canned vegetables. In 1938-39 output totalled 10,255,000 lb. but, as a result of the war-time demand by the armed services, production reached the high level of 106,962,000 lb. in 1945-46, a figure a little below the record of 119,149,000 lb. in 1944-45.

(iii) *Production.* The following table shows the quantity and value of jams, pickles, sauces and other items manufactured in each State in 1945-46 :---

JAMS, PRESERVED FRUIT AND VEGETABLES, PICKLES AND SAUCES : OUTPUT, 1945-46.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia
		QUA	NTITY				
Jams and Jellies '000 lb. Fruit Pulp-	45,725	(a)84,842	6,816	9,794	1,146	(b)	148,323
Consumed in own works	22,541	31,390	(c)	8,789	4,200	(c)	89,433
stock cwt. Fomato Pulp	32,929	110,257	(c)	10,778	21,040	(<i>c</i>)	283,425
Consumed in own works cwt. ' For sale or addition to '	19,540	114,795	(c)	21,195	(c)	(c)	161,420
stock cwt. Fruit, preserved in liquid	41,113	195,289	•••	12,810	10,558	10,156	269,926
'ooo lb. Vegetables, preserved in	21,762	62,931	8,871	10,417	(c)	(6)	107,079
liquid '000 lb.	36,926	36,316	(c)	14,180	(c)	(c)	106,962
Pickles 'ooo pints Sauces , , ,	4,591 10,832	4,196	(c) 834	1,620 2,623	(c) (c)	(c)	10,775

VALUE.

Jams and Jellies	£ 1,388,182	a2,353,122	281,440	233,006	32,823	(b)	4,288,573
Fruit, preserved in liquid	£ 581,618	1,465,811	263,027	227,830	(c)	(c)	2,612,106
Vegetables, preserved liquid Pickles Sauces	in £ 1,278,471 £ 214,985 £ 656,881	163,795	(c) (c) 36,660	366,911 69,660 100,730	(e) (c) (c)	(c) (c)	3,414,909 464,289 1,783,176

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

28. Bacon-curing Factories.--(i) Details for each State. The table hereunder gives particulars of factories engaged in bacon-curing in each State for 1945-46 :---

BACON-CURING FACTORIES, 1945-46.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories Number of persons engaged Value of land and buildings £ Value of plant and machinery £ Salaries and wages paid £ Value of power, fuel, etc., used£ Value of materials used £ Total value of output £ Value of production £	32 653 240,032 71,653 206,130 26,941 2,454,806 3,027,720 545,973	242,331 104,248 218,321 30,420 1,824,376 2,256,837	792 204,345 126,962 242,619 25,547 2,661,399 3,029,624	117,175 51,004 97,865 21,899 990,460 1,134,800	333 56,356 31,914 95,202 18,615 1,253,136 1,437,215	9,180 18,999 2,753 225,513 277,353	2,879 889,775 394,961 879,136 126,175 9,409,690 11,163,549

(ii) Quantity and Value of Production. The number of pigs cured and the quantity and value of production of factories in each State for 1945-46 are shown in the following table :—

Particu	lars.		N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia
	*****			Pios Cu	RED.				
Pigs cured on own Pigs cured on con			329,256 419	201,697 4,146	270,480 (b)	103,421 4,016	104,900 (b)	26,771 231	1,036,525 8,995
Total			329,675	205,843	(b)	107,437	(b)	27,002	1,045,520
·· · · · · · · · · · · · · · · ·				Produ	OTS.				·
Bacon and ham Lard	 	'000 lb.	38,852 1,176	20,961 1,536	23,879 2,903	10,903 593	10,243 1,021	2,667 145	107,505 7,374
				VALU	E.				
Bacon and ham (a Lard	•) 	£	2,832,434 31,095	1,432,830 44,020	1,613,480 67,639	717,803 15,660	638,147 31,432	173,376 4,340	7,408,070 194,186

BACON-CURING FACTORIES : PIGS CURED AND PRODUCTION, 1945-46.

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

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

29. Butter, Cheese and Condensed Milk Factories.--(i) Details for each State. The following table gives particulars of butter, cheese and condensed milk factories in each State for 1945-46:---

BUTTER, CHEESE AND CONDENSED MILK FACTORIES, 1945-46.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
		148 3,874 1,525,425 1,344,427 1,235,307 356,025 13,647,632 16,458,087 2,454,430	739,970 849,635 486,993 111,311 10,620,490 11,562,062	237,472 174,123 207,002 46,023 2,097,649 2,483,192	292 88,337 95,738 83,843 24,480 989,826 1,209,169	167,638 134,686 83,358 18,942 783,217 1,016,467	3,506,020 3,597,366 2,737,217 755,755 34,990,910

(ii) Total for Australia. The progress of industries included in this group during the four years 1942-43 to 1945-46 is compared with 1938-39 in the following table :--

BUTTER, CHEESE AND CONDENSED MILK FACTORIES : AUSTRALIA.

Items.		1938-39.	1942-43.	1943-44.	1944-45.	1945-46.
- · · · · · · · · · · · · · · · · · · ·				· · ·		
Number of factories Number of persons engaged Value of land and buildings Value of plant and machinery Salaries and wages paid Value of power, fuel, etc., used Value of materials used Total value of output Value of production	· · · · · · · · ·		37,708,383	3,499,065 2,526,017 708,211 35,300,830 40,703,304	3,487,660 2,566,477 701,016	3,506,020 3,597,366 2,737,217

(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 1945-46. These details are restricted to factory production and therefore exclude farm output.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia
	Мпы	K USED	('000 ом	TTED).			ſ <u>.</u>
For the manufacture of — Butter gals. Cheese , Condensed, &c., Milk ,,	,154,131 5,122 17,130	238,155 32,875 (a)	204,631 25,021 	33,302 20,884 (a)	25,914 1,600 (a)	19,283 2,330	675,41t 87,832 61,215
	Pro	DUCTS ('C	OO OMITI	TED).		•	
Butter	74,280 4,858		101,243 (b) 26,932	17,360 22,478	12,553 1,817	8,464 2,268	326,08c 91,759
milk	(a) 9,882	80,663 33,616		(a) 	(a) 	••	116,782 43,498
	V	ALUE ('O	OO OMITT	ED).			
Butter £ Cheese £ Condensed and concentrated	5,599 277	8,243 1,538		1,258 998	919 92	632 104	24,23¢ 4,21)
milk £ Powdered Milk £	(a) 650	2,369 1,680	:	(a)	(a)		3,310 2,330

BUTTER, CHEESE AND CONDENSED MILK FACTORIES : PRODUCTION, 1945-46.

(a) Not available for publication; figures are included in total for Australia. (b) Includes (.127,206 lb. of cheese, valued at £48,921, made in establishments not classified as factories.

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

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

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia
Number of factories	12 911 134,886 105,254 264,169 35,187 1,492.444 2,001,593 473,962	139,945 310,686 33,060 2,182,448	1,604,466 833,624 1,521,861 166,286	32,685 20,044 64,388	8 224 409,200 416,488 111,927 15,231 337,316 524,671 172,124	6 98 40,575 25,288 24,292 2,313 96,885 168,198 69,000	57 6,741 2,412,458 1,540,643 2,297,323 256,760 11,800,542 15,495,933 3,438,633

MEAT AND FISH PRESERVING WORKS, 1945-46.

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

31. Breweries.--(i) Details for each State. The following table gives particular of breweries in each State for the year 1945-46. It should be noted, however, that the data shown below are not strictly comparable throughout, owing to the inability or failure of some breweries to furnish a separate return for each branch of activity. Consequently the figures for some States include details of employment, wages, output etc., not connected with the brewing of beer, although associated with it. These extraneous activities include cooperage, malt works, aerated waters, etc.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia
Value of plant and machinery \pounds salaries and wages paid \pounds Value of power, fuel, etc., used Value of materials used \pounds Total value of output (b) \pounds	3,836,829			5 379 (a) (a) (a) (a) (a) (a) (a)	6 490 276,614 226, 57 3 189,355 49,803 542,042 1,316,156 724,311	2 89 (a) (a) (a) (a) (a) (a) (a)	33 4,121 3,185,58; 2,484,442 1,586,364 351,184 4,255,684 10,476,34* 5,869,472

BREWERIES, 1945-46.

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

BREWERIES : A	AUSTRALIA.
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Items.		1938–39.	1942-43.	1943-44.	1944-45.	1945-46.
Number of factories Number of persons engaged Value of land and buildings Value of plant and machinery Salaries and wages paid Value of power, fuel, etc., used Value of materials used Total value of output Value of production	· · · · · · · · · · ·	 34 3,698 2,801,147 1,215,473 251,286 3,406,572 9,030,309 5,372,451	33 3,910 3,201,121 2,762,038 1,424,451 317,256 4,000,863 9,736,720 5,418,601	33 3,873 3,196,938 2,595,508 1,444,363 339,482 4,015,503 9,969,828 5,614,843	33 3,919 3,188.239 2,458,703 1,496,658 338,913 4,142,863 10,151,935 5,670,159	33 4,121 3,185,582 2,484,442 1,586,366 351,184 4,255,684 10,476,34e 5,869,472

The quantity of ale, stout and beer brewed fell from 73.7 million gallons in 1928-29 to 49.8 million gallons in 1931-32, but thereafter increased each year to 109.2 million gallons in 1941-42. Under the Control of Liquor Order which operated between March, 1942 and March, 1946, the production of beer was restricted and consequently output remained static at about 100 million gallons from 1942-43 to 1944-45. Production rose to 107 million gallons in 1945-46 and to 128 million gallons in 1946-47.

The average annual consumption of ale, stout and beer prior to the economic depression of the early thirties exceeded 11 gallons per head of the population : it dropped to 7.32 gallons in 1931-32, increased to 13.76 gallons in 1941-42 and declined again to about 13 gallons during the period of control. In 1945-46 the consumption per head increased to 13.45 gallons.

(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 1945-46.

Pa	rticu	lars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
				Raw	MATERIAL	S USED.			
Malt Hops Sugar	••• •• ••	bushels lb. cwt.	1,132,611 811,001 168,560	1,016,854 879,377 139,100	353,371 272,512 43,860	(b) (b) (b)	366,462 238,367 30,780	(b) (b) (b)	3,239,735 2,512,865 421,520
Raw	M	TERIAL	S USED PI	ER 1,000	GALLONS O	F ALE, S	STOUT AND	BEER PI	RODUCED.
Malt Hops Sugar	 	bushels lb. cwt.	28.99 20.76 4.31	28.81 24.92 3.94	31.16 24.03 3.87	32.09 30.41 3.89	34.73 22.59 2.92	40.18 21.59 2.48	30.22 23.44 3.93
				ALE, STOU	T AND BE	ER BREW	VED.		
Quantit Value (d		gallons £	39,073,817 3,760,604	35,292,111 2,904,397	11,338,922 1,186,731	(b) (b)	10,552,015 1,277,336	(b) . (b)	107,196,702
(a) 1 Austral		udes Exc	ise Duty,	(b) Not	available fo	publicati	on figures a	re include	d in total for

BREWERIES: MATERIALS USED AND PRODUCTION, 1945-46.

32. 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 1942-43 to 1945-46 compared with the year 1938-39.

DISTILLERIES : AUSTRALIA.

Partic	Particulars.			. 1938–39.	1942-43.	1943-44.	1944-45.	944-45. 1945-46.		
			Prince	PAL MATER	ials Usei) .				
Barley Malt		T	bushel	89,528	220,081	240,386	245,306	296,002		
Barley			,,	80,548	143,637	170,954	145,993	208,847		
Wheat .			,,		41,432	706,712	683,350	108,590		
Malted Wheat			,,		10,633	11,495	14,209	46,912		
Maize			,,	7,643	27,832	18,208	55,625	58,688		
Molasses			cwt.	1,405,271	1,418,002	1,086,747	1,158,870	1,158,439		
lugar			,,		1,330,034	1,078,714	477,906	522.982		
ugar Syrup					423,146	321,183	268,509	240,216		
Wine			gal.	11,364,208	11,407,752	12,631,059	10,420,236	15,749,146		
rapes, Skins and	d Seeds		cwt.	170,818	169,846	203,408	112,221	244,786		
Raisins			,,	19,521	22,279	15,031	44,455	14,477		

SPIRITS DISTILLED FROM-

Barley and other Gra Molasses and Sugar Wine and Wine Lees Other	••	••• ••• ••	· · · · · · · · · · · · · · · · · · ·	proof gal. 434,578 7,025,416 2,249,265 7,305	1,122,660 22,199,638 2,851,301	proof gal. 3,710,810 18,566,633 2,365,028 76,304	proof gal. 3,778,128 12,463,738 1,872,633 158,079	proof gal. 1,836,659 11,842,105 2,879,030 105,117
Total				9,716,564	26,227,213	24,718,775	18,272,578	16,662,911
Spirits denatured				4,553,152	19,416,985	18,391,976	12,219,648	8,780,290

33. Tobacco, etc., Factories.—(i) Details for each State. During 1945-46 there were 26 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, 1945-46.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Australia.
Number of factories	8	12	4	I	I	26
Number of persons engaged \dots Value of land and buildings \pounds	2,997 588,640	2,087 341,747	(a) ³⁹	(a) ⁹	$(a)^{123}$	5,255 959,192
Value of plant and machinery £	432,248	273,015	(a) '	(a)	(a)	723,962
Salaries and wages paid £	749,800	516,643	(a)	(a)	(a)	1,300,481
Value of power, fuel, etc., used£ Value of materials used £	36,547	14,038	(a)	(a)	(a)	52,174
Total value of output £	7,022,802 8,260,290	3,491,123 4,630,306	(a) (a) -	(a)	(a) (a)	10,602,035
Value of production . £	1,200,941	1,125,145	(a)		(a)	2,388,349

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

(ii) Total for Australia. This industry was among the first to be established in Australia. In 1861 New South Wales had eleven factories and Victoria one. The Australian market has for many years been largely supplied with local manufactures from the imported leaf. Imports during 1945-46 comprised—manufactured tobacco 129,417 lb., cigars 199 lb., and cigarettes 55,488 lb., and the quantities manufactured in Australian factories were respectively 17,866,000 lb., 125,000 lb., and 8,482,000 lb. The following tables show the extent of the industry in Australia for the four years 1942-43 to 1945-46 compared with 1938-39:--

Items.			1938-39.	1942-43.	1943-44.	1944-45.	1945-46.
Number of factories Number of employees Value of land and buildings Value of plant and machinery Salaries and wages paid Value of power, fuel, etc., used Value of materials used Total value of output Value of production	· · · · · · · · ·		30 5,544 1,041,798 942,644 1,095,912 34,483 7,080,574 9,800,574 9,800,413 2,685,356	24 5,376 984,398 832,620 1,288,898 56,107 9,141,931 12,803,771 3,605,733	44,366 10,087,241	952,066 752,361 1,230,863 44,389 10,436,032 12,851,221	1,300,481
				RODUCTIO	N.	· · · · · · · · · · · · · · · · · · ·	1
Leaf used {Australian (Stemm Imported (,, Cigars made Cigarentes made	ed) 'oo) 	oo lb. 	4,489 16,011 16,305 238 6,731	4,974 19,374 19,186 175 8,681	4.951 19,202 18,187 134 8,929	4,658 18,704 17,448 122 8,740	4,685 18,822 17,866 125 8,482

TOBACCO, CIGAR AND CIGARETTE FACTORIES : AUSTRALIA.

For many years the production of locally-grown leaf was comparatively small, and manufacturers were dependent on imported leaf for the supply of their raw material. Increased 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 4.68 million lb. in 1945–46. In this connexion, see Chapter XX.—" Agricultural Production".

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

SAWMILLS, PLYWOOD AND BARK MILLS, 1945-46.

Value of land and buildings \pounds 988,361 526, Value of plant and machinery \pounds 1,025,102 812, Salaries and wages paid \pounds 1,718,175 1,263 Value of power, fuel, etc., used \pounds 113,591 92, Value of materials used \pounds 4,302,325 2,612 Total value of output \pounds 7,261,796 4,663	599 692,029 603 1,454,702 623 68,367	2,166 1 198,500 120 389,096 347 565,701 454 45,484 34 850,435 781 1,740,725 1,482	268 1,765 ,881 22,591 ,993 2,523,249 ,785 3,460,945 ,370 5,841,968 ,070 375,437 ,918 12,174,016 ,880 21,707,972 ,892 9,158,519

(ii) Total for Australia. Comparative statistics for 1938-39 and 1942-43 to 1945-46 are shown in the following table :--

SAWMILLS, PLYWOOD AND BARK MILLS : AUSTRALIA.

Items.		1938–39.	1942-43.	1943-44.	1944-45.	1945-46.
Number of factories Number of persons engaged Value of land and huildings Value of plant and machinery Salaries and wages paid Value of power, fuel, etc., used Value of power, fuel, etc., used Value of materials used Total value of output Value of production		1,660 19,104 2,054,611 2,785,716 3,634,627 225,782 8,522,895 14,537,888 5,789,211	308,868 9,485,003 17,395,542		344,560 11,016,417 20,033,902	1,765 22,591 2,523,249 3,460,945 5,841,968 375,437 12,174,016 21,707,972 9,158,519

4400.-35

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 895 million super. feet in 1945-46. Further reference is made to the sawmilling industry in Chapter XXII.—" Forestry".

35. Cabinet and Furniture Making and Upholstery Factories.—These industries constitute the principal manufactures in Class XI. The following table gives particulars for each State in 1945-46 :---

CABINET AND FURNITURE MAKING AND UPHOLSTERY FACTORIES, 1945-46.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Value of power, fuel, etc., used£ Value of materials used £ Total value of output £	269 3,547 805,831 211,441 1,032,111 29,419 1,584,715 3,167,110 1,552,976	284 2,832 740,025 169,455 654,993 18,005 997,026 2,159,572 1,144,541	89 1,439 236,032 64,097 343,746 8,745 587,815 1,155,456 558,896	85 1,139 155,804 74,989 245,404 7,847 400,535 804,817 396,435	105 708 153,663 45,375 151,434 3,162 245,190 523,827 275,475	42 394 48.136 16,574 71,883 1,834 98,075 214,850 114,941	874 10,059 2,139,491 581,931 2,499,571 69,012 3,913,356 8,025,632 4,043,264

36. Printing Works.—Printing and bookbinding works rank high in importance among the industries of Australia, and in 1945-46 afforded employment for about 26,000 employees, and paid nearly $\pounds_{7,4}69,000$ in salaries and wages, while the value of output amounted to $\pounds_{23,853,000}$. The first table below gives particulars of establishments engaged in general printing in each State for 1945-46. These establishments include those engaged in lithographic printing, bookbinding, paper ruling and linotyping and Government printing works. Establishments producing newspapers and periodicals are shown separately in the second table to follow :—

GOVERNMENT AND GENERAL PRINTING WORKS. 1945-46.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Salaries and wages paid ± Value of power, fuel, etc., used£ Value of materials used £ Total value of output £	1,562,762 1,088,975 1,711,415 42,391 2,223,181 5,133,386	1,674,218 902,220 1,599,859 46,681 2,213,462 4,925,852	350,208 168,993 436,446 11,852 539,535 1,313,428	170,491 277,554 8,134 291,976	896 222,161 131,897 200,576 6,335 273,158	18 437 81,523 62,311 117,294 2,652 98,440 292,894 191,802	927 16,941 4,116,241 2,524,887 4,343,144 118,045 5,639,752 13,063,318 7,305,521

NEWSPAPERS AND PERIODICALS, 1945-46.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Value of plant and machinery £ Salarles and wages paid £ Value of power, fuel, etc., used£ Value of materials used £ Total value of output £		709,210	54 1,184 484,184 252,158 388,739 20,988 431,938 1,198,316 745,390	34 624 348,822 133,604 201,185 8,016 285,684 620,140 326,440	31 434 244,649 73,943 170,612 11,609 236,400 583,625 335,616	7 254 40,611 43,297 82,942 3,011 63,026 236,756 170,719	425 9,276 3,646.963 2,336.292 3,126,313 133,120 4,968,911 10,789,669 5,087,578

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

Plants producing pulp from eucalypt timber are operating in Victoria and Tasmania whilst in South Australia pulp is being produced from locally-grown softwoods. The production of pulp has risen from 6,000 tons in 1938-39 to nearly 83,000 tons in 1945-46.

The number of factories operating in 1945-46 comprised two in New South Wales, five in Victoria, one in Queensland, South Australia and Western Australia and two in Tasmania. In the latter State newsprint, writing and printing papers are produced and in the other States wrappings, other papers and boards. Particulars for this industry are given in the following table for the years 1938-39 and 1942-43 to 1945-46.

PAPER MAKING, INCLUDING PULP MIL	LS :	AUSTRALIA.
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Items	1938–39.	1942-43.	1943-44.	1944-45.	1945-46.		
Number of factories Number of persons engaged Value of land and buildings Value of plant and machinery Salaries and wages paid Value of power, fuel, etc., used Value of materials used Total value of output Value of production	· · · · · · · · · · · · · · · · · · ·		7 1,961 849,578 1,712,662 466,548 200,998 1,095,318 2,301,531 1,005,215	12 4,887 1,525,537 3,326,730 1,479,907 560,924 3,869,161 7,549,622 3,119,537	12 4,758 1,491,848 3,178,251 1,526,609 586,710 4,047,788 7,954,232 3,319,734	12 4,625 1,521,419 2,920,885 1,525,871 596,399 4,081,491 8,094,486 3,416,596	12 4,705 1,525,187 2,509,426 1,577,146 598,979 3,802,205 7,417,772 3,016,588

38. Rubber Goods (Including Tyres made).—The following table gives particulars of this industry for each State during 1945-46 :—

RUBBER GOODS (INCLUDING TYRES MADE), 1945-46.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Таз.	Australia.
Number of factories	• 12	26	2	5	2		47
Number of persons engaged	3,405	3,263	258	137	5		7,068
Value of land and buildings £	627,897	584,332	(a)129,471	15,828	(a)47.834		1,269,036
Value of plant and machinery £	401,737	545,690	(a) 57, 572	19,265	(a)13,098		980,215
Salaries and wages paid £	1,108,723	1,053,775	(a)143,492	31,314	(a)30,075		2,270,664
Value of power, fuel, etc., used£	135,169	182,369	(a)14,546	3,810	(a)3,171		327,906
Value of materials used £	3,413,631	3,574,583	(a)316,817	34,833	(a)63,266		7,188,125
Total value of output £	4,814,553	5,642,682	(a)573,716	87,576	a131,870'		10,832,431
Value of production £	1,265,753	1,885,730	(a)242,353	48,933	(a)65,433		3,316,400

(a) Includes values recorded in Tyre Retreading and Repairing which are omitted from total.

39. Tyre Retreading and Repairing.—Particulars of the tyre retreading and repairing industry in each State during 1945-46 are shown below :---

TYRE RETREADING AND REPAIRING, 1945-46.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories Number of persons engaged Value of land and buildings £ Value of plant and machinery £ Salaries and wages paid £ Value of materials used £ Total value of materials used £ Total value of output £ Value of production £	106 585 228,484 93.297 146,440 14.039 343,418 677,510	66 381 137,913 64,855 104,295 12,060 238,306 488 550	33 277 (a) (a) (a) (a) (a) (a)	22 146 59,295 13,870 40,204 3,970 98,838 172,674	16 130 (a) (a) (a) (a) (a)	13 112 34,990 9,477 23,573 3,181 41,917 90,469	261 1,631 596,008 238,640 411,227 44,409 937,484 1,947,169

(a) Included with Rubber Goods above, but these figures have been included with the total for Australia.

40. Electric Light and Power Works.—(i) Details for each State. The increased demand for electrical energy has been responsible for considerable development in electric light and power works during recent years. Since 1938-39 the production of electric light and power has increased from 4,688 to 6,910 million K.W.H. in 1945-46, or by 45 per cent. Particulars for the year 1945-46 are as follows :—

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories Number of persons engaged Value of land and buildings £ Salaries and wages paid £ Value of power, fuel, etc., used£ Value of materials used £ Total value of output £ Value of production £	10,874,564 1,071,363 2,692,513 496,049 8,749,030	1,760 2,644,944 10,233,183 681,761 1,294,295	682,372 2,193,987 276,731 764,580 192,668 1,736,661	670,205 3,160,287 261,971 714,594 94,014 1,648,935	687 464,130 2,097,516 252,820 932,244 61,016 1,506,985	3,571,212 43,098 148 17,561 181,251	372 7,071 9,234,673 32,130,749 2,587,744 6,398,374 1,029,353 17,990,355 10,562,628

ELECTRIC LIGHT AND POWER WORKS. 1945-46.

Particulars of the types of engines and generators installed in Electric Light and Power Works and their rated horse-power are given on page 1044.

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

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania,	Australia.
1938-39 1942-43 1943-44 1944-45 1945-46	'000 K.W.H. 1,948,490 2,844,180 2,826,132 2,826,132 2,827,336 2,831,801	'000 K.W.H. 1,222,505 1,776,699 1,777,769 1,817,347 1,904,403	'000 K.W.H. 387,368 515,254 563,489 602,451 612,672	'000 K.W.H. 256,283 417,873 393,794 409,866 402,134	'000 K.W.H. 307,002 317,338 313,261 329,865 338,799	'000 K.W.H. 566,691 771,282 801,945 802,151 819,958	'000 K.W.H. 4,688,339 6,642,626 6,676,390 6,839,016 6,909,767

ELECTRIC LIGHT AND POWER WORKS: PRODUCTION.

41. Gas-works.—(i) Details for each State. 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 1945-46 :—

GAS-WORKS, 1945-46.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia
$\begin{array}{llllllllllllllllllllllllllllllllllll$	39 1,289 800,378 3,323,226 451,690 360,811 1,503,659 3,605,536 1,741,066	2,436,024	16 351 182,686 612,387 119,687 9,838 330,170 724,806 384,798	4 25,300 1,108,010 117,607 2,098 319, 7 99 508,479 186,582	4 (a) (a) (a) (a) (a) (a) (a) (a)	2 59 (a) (a) (a) (a) (a) (a) (a)	104 3,502 1,571,427 9,475,328 1,193,684 448,484 3,965,119 7,726,391 3,312,788

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

INDIVIDUAL INDUSTRIES.

	Partic	ulars		N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia
					Coal	USED.				
Coal		••	tons	795,961	608,942	163,897	121,907	(a)	(a)	1,759,429
					Pro	DUCTS.		•		
Gas prod Gas sold Coke pro Coke for	duced	'000 CL	ibic ft. ibic ft. tons tons			2,451,388 2,171,894 72,658 36,553	1,614,687 75,400	(a) (a) (a) (a)	(a) (a) (a) (a)	31,954,138 28,087,865 1,027,157 602,655
					VA	LUE.				
Gas sold Coke for			£	2,586,724 377,408		874,382 49,060		(a) (a)	(a) (a)	7,415,941

(ii) Coal Used and Production. The following table gives details for 1945-46 :--GAS-WORKS : COAL USED AND PRODUCTION, 1945-46.

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

Since 1938-39, when the output of gas was 21 thousand million cubic feet, production has increased each year and reached almost 32 thousand million cubic feet in 1945-46.