

CHAPTER XXI.

MANUFACTURING INDUSTRY.

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

§ 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 must be read in the light of this definition. The following table gives the number of factories in each State for the last five years :—

FACTORIES : NUMBER.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
1935-36 ..	8,486	9,160	2,482	1,895	1,946	925	24,894
1936-37 ..	8,726	9,165	2,883	1,916	2,032	946	25,668
1937-38 ..	9,097	9,241	3,063	1,980	2,066	948	26,395
1938-39 ..	9,464	9,250	3,087	2,067	2,129	944	26,941
1939-40 ..	9,458	9,215	3,064	2,265	2,129	980	27,111

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 This classification, which was introduced during 1930-31, superseded the grouping which had been in use since 1902.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

FACTORIES : NUMBER IN INDUSTRIAL CLASSES, AUSTRALIA.

Class of Industry.	1935-36.	1936-37.	1937-38.	1938-39.	1939-40.
I. Treatment of Non-metalliferous Mine and Quarry Products	462	517	548	564	559
II. Bricks, Pottery, Glass, etc.	450	436	459	471	452
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease	630	655	652	666	685
IV. Industrial Metals, Machines, Implements and Conveyances	6,393	6,788	7,102	7,255	7,370
V. Precious Metals, Jewellery and Plate	277	282	290	290	306
VI. Textiles and Textile Goods	589	577	591	611	650
VII. Skins and Leather	525	537	536	533	531
VIII. Clothing	4,260	4,259	4,334	4,314	4,270
IX. Food, Drink and Tobacco	4,721	4,842	4,982	5,202	5,291
X. Woodworking and Basketware	2,541	2,715	2,771	2,822	2,778
XI. Furniture, Bedding, etc.	1,057	1,092	1,113	1,149	1,152
XII. Paper, Stationery, Printing, Bookbinding, etc.	1,781	1,774	1,790	1,816	1,800
XIII. Rubber	290	289	302	299	299
XIV. Musical Instruments	31	34	34	34	38
XV. Miscellaneous Products	371	390	398	413	437
Total, Classes I. to XV.	24,378	25,187	25,902	26,439	26,618
XVI. Heat, Light and Power	516	481	493	502	493
Grand Total	24,894	25,668	26,395	26,941	27,111

The number of factories in operation declined each year from 1928-29 to 1931-32, but since 1931-32 there have been substantial increases each year, the number in 1939-40 being the highest yet recorded.

(ii) *States, 1939-40.* The following table shows the number of factories in each State in 1939-40, classified according to the nature of the industry :—

FACTORIES : NUMBER IN INDUSTRIAL CLASSES, 1939-40.

Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
	No.	No.	No.	No.	No.	No.	No.
I. Treatment of Non-metalliferous Mine and Quarry Products ..	195	172	51	62	58	21	559
II. Bricks, Pottery, Glass, etc. ..	206	111	41	43	36	15	452
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease ..	308	234	39	52	34	18	685
IV. Industrial Metals, Machines, Implements and Conveyances ..	2,677	2,497	749	598	643	206	7,370
V. Precious Metals, Jewellery and Plate ..	85	143	23	27	21	7	306
VI. Textiles and Textile Goods ..	175	393	21	39	13	9	650
VII. Skins and Leather ..	216	201	49	29	28	8	531
VIII. Clothing ..	1,585	1,778	301	320	234	52	4,270
IX. Food, Drink and Tobacco ..	1,701	1,471	791	602	458	268	5,291
X. Woodworking and Basketware ..	863	716	538	175	213	273	2,778
XI. Furniture, Bedding, etc. ..	342	414	144	99	99	54	1,152
XII. Paper, Stationery, Printing, Book-binding, etc. ..	678	673	173	117	131	28	1,800
XIII. Rubber ..	101	98	37	27	24	12	299
XIV. Musical Instruments ..	12	16	3	4	3	..	38
XV. Miscellaneous Products ..	173	181	35	25	20	3	437
Total, Classes I. to XV. ..	9,317	9,098	2,995	2,219	2,015	974	26,618
XVI. Heat, Light and Power ..	141	117	69	46	114	6	493
Grand Total ..	9,458	9,215	3,064	2,265	2,129	980	27,111

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

i. *States, 1939-40.*—The following table shows, for each State, the number of factories classified according to the number of persons engaged in 1939-40 :—

FACTORIES : CLASSIFICATION ACCORDING TO SIZE OF FACTORY, 1939-40.

No. of Persons Engaged in each Factory.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
NUMBER OF FACTORIES.							
Under 4 ..	2,832	3,136	1,070	630	1,053	286	9,007
4 ..	953	788	322	242	118	126	2,549
5 to 10 ..	2,457	2,153	767	691	488	357	6,913
11 to 20 ..	1,280	1,272	406	308	221	101	3,588
21 to 50 ..	1,111	1,055	275	246	168	71	2,926
51 to 100 ..	421	428	110	87	57	25	1,128
Over 100 ..	404	383	114	61	24	14	1,000
Total ..	9,458	9,215	3,064	2,265	2,129	980	27,111

Some marked changes have taken place during the past decade in the distribution of factories according to the number of persons engaged. In 1926-27 of a total of 21,579 factories reported, 7,644, or 35.42 per cent., had less than five persons engaged whereas in 1939-40 the number of such factories had increased to 11,556, representing 42.62 per cent. of the total of 27,111 factories. The increase in the number of small factories was probably due to the multiplication of small repair establishments (boots and shoes, cycles and motors, etc.) which are technically accounted a factories by the installation of some power machine.

In the other groups, the effect of the economic depression during the middle years of the decade is clearly noticeable, but since 1931-32 the improvement has been very steady. Factories with more than 100 persons engaged advanced from 733 in 1926-27 to a new high level of 1,000 in 1939-40, the persons engaged in these factories increasing from 204,363, or 43.74 per cent. of the total number, to 293,933, or 49.5 per cent., during the same period.

The relative importance of large and small factories is conclusively 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, 1939-40.

No. of Persons Employed in Group.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
AVERAGE NUMBER ENGAGED DURING PERIOD WORKED.							
Under 4 ..	5,876	5,944	2,210	1,370	2,013	653	18,066
4 ..	3,812	3,152	1,288	968	472	504	10,196
5 to 10 ..	17,091	15,132	5,306	4,774	3,118	2,438	47,859
11 to 20 ..	18,765	18,678	5,994	4,469	3,191	1,441	52,538
21 to 50 ..	35,676	33,348	8,507	7,550	5,381	2,134	92,596
51 to 100 ..	29,648	29,783	8,036	6,048	3,972	1,649	79,136
Over 100 ..	128,484	107,800	24,836	20,678	5,506	6,629	293,933
Total ..	239,352	213,837	56,177	45,857	23,653	15,448	594,324
Av. per F'cty	25.31	23.21	18.33	20.25	11.11	15.76	21.92

2. Australia, 1935-36 to 1939-40.—In the following table factories in Australia during each of the last five years are classified according to the number of persons engaged.

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

Year.	Establishments Employing on the Average—							
	20 and under.		21 to 100.		101 and upwards.		Total.	
	Es- tablism- ments.	Persons en- gaged.	Es- tablism- ments.	Persons en- gaged.	Es- tablism- ments.	Persons en- gaged.	Es- tablism- ments.	Persons en- gaged.
1935-36—								
Number ..	20,413	117,443	3,646	153,603	835	230,889	24,894	501,935
Average per establishment ..	..	5.75	..	42.13	..	276.51	..	20.16
Percentage on total ..	82.00	23.40	14.65	30.60	3.35	46.00	100.00	100.00
1936-37—								
Number ..	21,017	122,179	3,756	158,007	895	250,764	25,668	530,950
Average per establishment ..	..	5.81	..	42.07	..	280.18	..	20.69
Percentage on total ..	81.88	23.01	14.63	29.76	3.49	47.23	100.00	100.00
1937-38—								
Number ..	21,514	126,585	3,921	166,064	960	273,502	26,395	566,151
Average per establishment ..	..	5.88	..	42.35	..	284.90	..	21.45
Percentage on total ..	81.50	22.36	14.86	29.33	3.64	48.31	100.00	100.00
1938-39—								
Number ..	21,982	129,505	4,013	170,971	946	272,022	26,941	572,498
Average per establishment ..	..	5.89	..	42.60	..	287.55	..	21.25
Percentage on total ..	81.59	22.62	14.90	29.86	3.51	47.52	100.00	100.00
1939-40—								
Number ..	22,057	128,659	4,054	171,732	1,000	293,933	27,111	594,324
Average per establishment ..	..	5.83	..	42.36	..	293.93	..	21.92
Percentage on total ..	81.36	21.65	14.95	28.89	3.69	49.46	100.00	100.00

§ 3. Power Equipment in Factories.

1. **General.**—Statistics of power equipment in factories are now collected on a different basis to that used prior to 1936–37. Previously the statistics represented the “average horse-power used” in all factories, including Central Electric Stations, but in 1936–37 information was obtained in respect of the “rated horse-power” of engines ordinarily in use and of engines in reserve or idle, omitting obsolete engines. In addition the power equipment of Central Electric Stations was collected in greater detail. If duplication is to be avoided 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, 1,387 factories are shown as using no power other than hand-power; the distribution of these factories among the various industries was as follows:—Lime, Plaster and Asphalt, 88; Other Metal Works, 76; Tailoring and Slop Clothing, 378; Dressmaking, 129; Millinery, 58; Bakeries, 186; Cabinet and Furniture Making, 45; all other industries, 427.

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 1939–40:—

FACTORIES(a) : RATED HORSE-POWER OF ENGINES, 1939–40.

State.	Number of Establishments.			Rated Horse-power of Engines.	
	Using Power.	Others.	Total	Ordinarily in use.	In Reserve or Idle (omitting obsolete).
	No.	No.	No.	H.P.	H.P.
New South Wales ..	9,023	336	9,359	700,344	81,123
Victoria ..	8,663	474	9,137	433,112	90,099
Queensland ..	2,848	163	3,011	200,382	25,611
South Australia ..	2,032	190	2,222	116,049	15,009
Western Australia ..	1,847	172	2,019	66,925	6,794
Tasmania ..	924	52	976	58,602	8,761
Australia ..	25,337	1,387	26,724	1,575,414	227,397

(a) Excluding Central Electric Stations.

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

FACTORIES(a) : TYPES AND RATED HORSE-POWER OF ENGINES ORDINARILY IN USE, 1939–40.

State.	Rated Horse-power of Engines ordinarily in use.								Total. (b)
	Steam.		Internal Combustion.			Water.	Motors driven by electricity.		
	Reciprocating.	Turbine.	Gas.	Light Oils.	Heavy Oils.		Purchased.	Own Generation. (c)	
N.S.W. ..	H.P. 105,623	H.P. 48,849	H.P. 4,624	H.P. 3,859	H.P. 12,675	H.P. 109	H.P. 524,605	H.P. 90,687	H.P. 700,344
Victoria ..	36,993	41,185	4,983	4,682	11,329	1,005	332,735	43,469	433,112
Queensland ..	80,726	11,568	8,540	3,690	15,216	..	80,642	41,419	200,382
S. Aust. ..	7,512	1,687	4,844	1,947	9,544	..	90,515	9,072	116,049
W. Australia ..	8,478	56	2,773	2,021	7,301	..	46,296	4,430	66,925
Tasmania ..	3,823	2,103	5	2,677	471	192	49,331	7,913	58,602
Australia ..	243,155	105,648	25,769	18,876	56,536	1,306	1,124,124	196,990	1,575,414

(a) Excluding Central Electric Stations.

(b) Excluding particulars in column (c).

(ii) *Australia, 1936-37 to 1939-40.*—Details of the horse-power of the various types of engines in use are given for Australia since 1936-37 in the following table :—

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

Year.	Rated Horse-power of Engines ordinarily in use.								Total. (b)
	Steam.		Internal Combustion.			Water.	Motors driven by electricity.		
	Reciprocating.	Turbine.	Gas.	Light Oils.	Heavy Oils.		Purchased.	Own Generation. (c)	
1936-37 ..	244,963	63,311	27,030	15,447	46,593	1,024	798,944	147,919	1,197,312
1937-38 ..	266,939	83,542	28,372	15,926	51,053	1,510	888,919	172,130	1,336,261
1938-39 ..	268,409	84,149	32,914	17,970	55,800	1,616	1,017,911	179,889	1,478,769
1939-40 ..	243,155	105,648	25,769	18,876	56,536	1,306	1,124,124	196,990	1,575,414

(a) Excluding Central Electric Stations.

(b) Excluding particulars in column (c).

(iii) *In Classes of Industry, 1939-40.* The next table shows the rated horse-power of engines ordinarily in use in the various classes of industry in each State during 1939-40 :—

FACTORIES(a) : RATED HORSE-POWER OF ENGINES ORDINARILY IN USE, 1939-40.

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
I. Treatment of Non-metallic ferous Mine and Quarry Products ..	43,331	26,330	6,849	5,520	4,618	8,918	95,566
II. Bricks, Pottery, Glass, etc. ..	25,428	17,989	3,110	4,180	3,088	841	54,636
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease ..	25,376	29,091	2,374	10,230	5,584	442	73,097
IV. Industrial Metals, Machines, Implements and Con- veyances ..	340,172	88,173	37,352	42,919	14,522	16,128	539,266
V. Precious Metals, Jewellery and Plate ..	1,114	2,805	125	378	56	34	4,512
VI. Textiles and Textile Goods ..	20,966	46,398	2,586	4,088	777	3,252	78,067
VII. Skins and Leather ..	9,529	8,646	2,110	398	783	317	21,792
VIII. Clothing ..	8,955	11,796	1,114	1,037	737	144	23,783
IX. Food, Drink and Tobacco ..	110,916	83,790	103,568	27,634	19,638	7,676	353,222
X. Woodworking and Basket- ware ..	44,372	32,083	31,041	10,030	11,838	8,222	138,486
XI. Furniture, Bedding, etc. ..	8,155	8,305	3,146	2,653	1,496	791	24,546
XII. Paper, Stationery, Printing, Bookbinding, etc. ..	26,745	47,786	4,975	3,561	2,918	11,499	97,484
XIII. Rubber ..	21,219	20,118	1,132	553	96	60	43,178
XIV. Musical Instruments ..	797	83	12	3	24	..	919
XV. Miscellaneous Products ..	5,042	4,083	96	349	202	160	9,932
Total, Classes I. to XV. ..	692,117	428,376	199,599	113,533	66,377	58,484	1,558,486
XVI. Gas Works ..	8,227	4,736	783	2,516	548	118	16,928
Grand Total ..	700,344	433,112	200,382	116,049	66,925	58,602	1,575,414

(a) Excluding Central Electric Stations.

4. Capacity of Engines and Generators installed in Central Electric Stations.—
(i) *According to Type in Australia.* Particulars of the type and the capacity of engines and generators installed in Central Electric Stations in Australia in 1939-40 are given below :—

CENTRAL ELECTRIC STATIONS : POWER EQUIPMENT, AUSTRALIA, 1939-40.

Particulars.		Capacity of Engines and Generators.					
		Steam.		Internal Combustion.			Total.
		Reciprocating.	Turbine.	Gas.	Light Oils.	Heavy Oils.	
Engines installed—							
Total installed	Rated H.P.	39,024	1,919,290	20,909	1,574	153,549	2,380,376
Generators installed—							
Kilowatt capacity—							
Total installed	K.W.	18,162	1,406,523	12,753	825	98,611	1,718,926
Effective capacity	"	15,253	1,197,506	12,025	744	91,992	1,474,401
Maximum load	"	13,116	1,005,866	9,084	654	67,819	1,240,846
Horse-power equivalent—							
Total installed	H.P.	24,347	1,885,514	17,096	1,106	132,193	2,304,306
Effective capacity	"	20,447	1,605,315	16,120	998	123,321	1,976,508
Maximum load	"	17,583	1,348,414	12,177	877	90,914	1,663,416

(ii) *States.* Details of the capacity of engines and generators installed in Central Electric Stations in each State are given in the next table for 1939-40.

CENTRAL ELECTRIC STATIONS : POWER EQUIPMENT, 1939-40.

Particulars.		N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Engines installed	Rated H.P.	1,057,670	599,181	233,384	166,962	159,014	164,165	2,380,376
Generators installed—								
Kilowatt capacity—								
Total installed	K.W.	790,103	414,686	156,436	120,081	111,640	125,980	1,718,926
Effective capacity	"	679,955	352,086	122,471	119,853	98,486	101,550	1,474,401
Maximum load	"	524,763	343,683	96,102	112,196	68,812	95,290	1,240,846
Horse-power equivalent—								
Total installed	H.P.	1,059,173	555,907	209,710	160,975	149,659	168,882	2,304,306
Effective capacity	"	911,514	471,989	164,178	160,669	132,025	136,133	1,976,508
Maximum load	"	703,471	460,724	128,830	150,404	92,246	127,741	1,663,416

§ 4. Employment in Factories.

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

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

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

(ii) *Australia*, 1928-29 to 1939-40. Particulars of the number employed, the numerical fluctuation in employment and the rate per cent. of such fluctuation are given for years 1928-29 to 1939-40 in the following table:—

FACTORIES : EMPLOYMENT, AUSTRALIA.

Year.	Males.			Females.			Persons.		
	Number Employed.	Numerical Increase on previous year.	Rate per cent. on previous year.	Number Employed.	Numerical Increase on previous year.	Rate per cent. on previous year.	Number Employed.	Numerical Increase on previous year.	Rate per cent. on previous year.
	No.	No.	%	No.	No.	%	No.	No.	%
1928-29 ..	333,110	..	..	117,372	..	..	450,482	..	..
1929-30 ..	308,235	- 24,875	- 7.47	110,959	- 6,413	- 5.46	419,194	- 31,288	- 6.95
1930-31 ..	245,944	- 62,291	- 20.21	92,899	- 18,060	- 16.28	338,843	- 80,351	- 19.17
1931-32 ..	237,915	- 8,029	- 3.26	98,743	5,844	6.29	336,658	- 2,185	- 0.65
1932-33 ..	261,515	23,600	9.92	109,212	10,469	10.60	370,727	34,069	10.12
1933-34 ..	289,249	27,734	10.60	116,660	7,448	6.82	405,909	35,182	9.49
1934-35 ..	322,465	33,216	11.48	127,133	10,473	8.98	449,598	43,689	10.76
1935-36 ..	356,554	34,089	10.57	136,217	9,084	7.15	492,771	43,173	9.60
1936-37 ..	381,412	24,858	6.97	142,536	6,319	4.64	523,948	31,177	6.33
1937-38 ..	408,602	27,190	7.13	150,558	8,022	5.63	559,160	35,212	6.72
1938-39 ..	412,591	3,989	0.98	152,515	1,957	1.30	565,106	5,946	1.06
1939-40 ..	426,934	14,343	3.48	160,729	8,214	5.39	587,663	22,557	3.99

NOTE.—Minus sign (—) indicates decrease.

(iii) *States*, 1935-36 to 1939-40. The following table shows, for each year from 1935-36 to 1939-40 inclusive (a) the average number of persons (including both sexes of all ages) engaged in manufacturing industries in each State; (b) the percentage of the number engaged in each State on the total number engaged in Australia; and (c) the number engaged per ten thousand of the mean population in each State and Australia.

FACTORIES : EMPLOYMENT.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
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AVERAGE NUMBER ENGAGED DURING FULL YEAR (52 WEEKS).

1935-36 ..	193,200	183,390	45,128	38,471	20,993	11,589	492,771
1936-37 ..	206,497	191,383	48,216	40,710	22,711	12,431	523,948
1937-38 ..	224,861	201,793	52,119	44,084	23,133	13,170	559,160
1938-39 ..	228,781	201,831	54,110	43,371	23,211	13,802	565,106
1939-40 ..	236,974	212,461	55,541	45,050	22,967	14,670	587,663

PERCENTAGE ON AUSTRALIAN TOTAL.

	%	%	%	%	%	%	%
1935-36 ..	39.21	37.21	9.16	7.81	4.26	2.35	100.00
1936-37 ..	39.79	36.53	9.20	7.77	4.34	2.37	100.00
1937-38 ..	40.21	36.09	9.32	7.88	4.14	2.36	100.00
1938-39 ..	40.48	35.72	9.58	7.67	4.11	2.44	100.00
1939-40 ..	40.32	36.15	9.45	7.67	3.91	2.50	100.00

FACTORIES: EMPLOYMENT—*continued*.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
PER 10,000 OF POPULATION.							
1935-36 ..	727	995	464	656	469	503	730
1936-37 ..	778	1,033	490	692	503	535	770
1937-38 ..	830	1,084	524	746	506	553	815
1938-39 ..	837	1,076	537	730	502	583	816
1939-40 ..	858	1,124	546	755	493	615	840

2. Rates of Increase, 1935-36 to 1939-40.—The percentage of increase on the average number of persons engaged in the preceding year is shown below for each State from 1935-36 to 1939-40:—

FACTORIES: ANNUAL PERCENTAGE INCREASE OF PERSONS ENGAGED.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
	%	%	%	%	%	%	%
1935-36 ..	10.38	8.07	4.83	14.85	18.11	9.80	9.60
1936-37 ..	7.92	4.36	6.84	5.82	8.18	7.27	6.33
1937-38 ..	7.85	5.44	8.09	8.29	1.86	5.94	6.72
1938-39 ..	1.74	0.02	3.82	-1.62	0.34	4.80	1.06
1939-40 ..	3.58	5.27	2.64	3.87	-1.05	6.29	3.99

NOTE.—Minus sign (—) indicates decrease.

3. Persons Engaged in Classes of Industry.—(i) *Australia*. The table hereunder gives the average number of persons engaged in factories under each industrial group in Australia for the years 1935-36 to 1939-40 inclusive:—

FACTORIES: PERSONS ENGAGED IN INDUSTRIAL CLASSES, AUSTRALIA.

Class of Industry.	1935-36.	1936-37.	1937-38.	1938-39.	1939-40.
I. Treatment of Non-metaliferous Mine and Quarry Products ..	7,571	8,736	9,952	10,343	10,042
II. Bricks, Pottery, Glass, etc. ..	13,088	14,262	15,142	15,709	15,149
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease ..	16,217	17,614	18,835	19,816	23,779
IV. Industrial Metals, Machines, Implements and Conveyances ..	145,481	161,512	178,019	177,677	184,469
V. Precious Metals, Jewellery and Plate ..	3,210	3,482	3,761	3,726	3,886
VI. Textiles and Textile Goods ..	42,031	43,370	45,224	46,082	50,973
VII. Skins and Leather ..	10,440	10,872	10,437	10,767	11,490
VIII. Clothing ..	81,400	82,138	85,371	86,092	87,728
IX. Food, Drink and Tobacco ..	73,265	77,498	81,785	83,846	87,046
X. Woodworking and Basketware ..	27,478	29,311	31,117	30,739	31,615
XI. Furniture, Bedding, etc. ..	13,443	14,707	15,612	15,287	14,655
XII. Paper, Stationery, Printing, Book-binding, etc. ..	35,952	37,309	39,062	39,913	40,434
XIII. Rubber ..	6,797	6,455	7,534	7,502	7,843
XIV. Musical Instruments ..	431	422	441	451	474
XV. Miscellaneous Products ..	6,591	7,370	7,798	7,727	8,325
Total, Classes I. to XV. ..	483,415	515,058	550,090	555,677	577,908
XVI. Heat, Light and Power ..	9,356	8,890	9,070	9,429	9,755
Grand Total ..	492,771	523,948	559,160	565,106	587,663

In comparison with the employment levels reached in 1928-29 all classes of industries have shown considerable gains with the exception of "Musical Instruments" and "Heat, Light and Power". In these classes reductions of 75 per cent. and 6 per cent. respectively were recorded. The greatest actual gain was 54,000 persons in "Industrial Metals,

etc.", while the greatest relative gain was in "Miscellaneous Products" where the numbers engaged rose by 185 per cent. The lowest relative gains occurred in "Furniture, Bedding, etc." and "Clothing".

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

FACTORIES : PERSONS ENGAGED IN INDUSTRIAL CLASSES, 1939-40.

Class of Industry.	N.S.W.	Vic.	Q'land.	S.A.	W.A.	Tas.	Aust.
I. Treatment of Non-metalliferous Mine and Quarry Products ..	4,314	3,051	845	779	679	374	10,042
II. Bricks, Pottery, Glass, etc. ..	8,071	4,384	843	1,096	550	205	15,149
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease ..	8,698	11,827	620	1,674	838	122	23,779
IV. Industrial Metals, Machines, Implements and Conveyances ..	86,841	53,963	13,884	18,759	6,796	4,226	184,469
V. Precious Metals, Jewellery and Plate ..	991	2,423	162	207	80	23	3,886
VI. Textiles and Textile Goods ..	16,848	29,379	1,095	1,515	393	1,743	50,973
VII. Skins and Leather ..	4,847	4,607	1,006	515	415	100	11,490
VIII. Clothing ..	32,622	39,442	6,884	5,051	3,173	556	87,728
IX. Food, Drink and Tobacco ..	29,244	28,112	15,782	6,893	3,893	3,122	87,046
X. Woodworking and Basketware	9,985	7,948	7,097	2,090	2,532	1,963	31,615
XI. Furniture, Bedding, etc. ..	5,743	4,750	1,784	1,207	772	399	14,655
XII. Paper Stationery, Printing, Bookbinding, etc. ..	17,470	13,928	3,590	2,285	1,725	1,436	40,434
XIII. Rubber ..	3,583	3,167	796	157	74	66	7,843
XIV. Musical Instruments ..	282	99	38	29	26	..	474
XV. Miscellaneous Products ..	4,233	3,058	294	384	203	153	8,325
Total, Classes I. to XV.	233,772	210,138	54,720	42,641	22,149	14,488	577,908
XVI. Heat, Light and Power ..	3,202	2,323	821	2,409	818	182	9,755
Grand Total ..	236,974	212,461	55,541	45,050	22,967	14,670	587,663

4. Persons Engaged According to Nature of Employment.—(i) *General.* In the following table the average number of persons engaged in the States during 1939-40 are classified according to the nature of their employment :—

PERSONS ENGAGED : NATURE OF EMPLOYMENT, 1939-40.

State.	Average Number of Persons Engaged.						Total.
	Working Pro-prietors.	Managers and Overseers.	Accountants and Clerks.	Engine-drivers and Firemen.	Workers, Skilled & Unskilled. (a)	Carters, Messengers and Others.	
New South Wales ..	7,620	8,405	16,302	3,081	199,063	2,503	236,974
Victoria ..	7,730	7,295	11,883	1,944	181,249	2,360	212,461
Queensland ..	2,446	2,060	3,829	1,899	44,122	1,185	55,541
South Australia ..	1,733	1,736	3,599	465	36,910	607	45,050
Western Australia ..	1,250	991	1,438	536	18,397	355	22,967
Tasmania ..	635	646	943	296	12,005	145	14,670
Australia ..	21,414	21,133	37,994	8,221	491,746	7,155	587,663

(a) Including outworkers.

(ii) *Outworkers.* The term "outworker" or "homeworker" has acquired a special meaning in connexion with manufacturing industries, and technically embraces only those to whom work is given out by factory owners to be done in the employees' own

homes. Individuals working for themselves are not included. The following table gives particulars of the average number of outworkers connected with factories in each State during the last five years :—

FACTORIES : OUTWORKERS.(a)

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
1935-36	235	142	10	6	..	29	422
1936-37	264	176	14	17	3	17	491
1937-38	234	152	8	23	6	12	435
1938-39	201	120	6	11	7	11	356
1939-40	174	143	6	18	4	8	353

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

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

5. Monthly Employment, 1936-37 to 1940-41.—The actual number of persons employed in factories (excluding Working Proprietors) on the pay-day nearest to the 15th of each month are shown in the following table for the years 1936-37 to 1940-41.

FACTORIES : MONTHLY EMPLOYMENT, AUSTRALIA.

Month.	1936-37.	1937-38.	1938-39.	1939-40.	1940-41.
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MALES.

July	343,622	374,699	387,693	391,470	421,089
August	346,209	378,278	389,979	393,076	427,112
September	350,638	381,067	391,576	395,446	434,217
October	356,643	386,612	393,977	404,730	438,885
November	359,752	390,414	395,192	409,933	448,281
December	360,595	391,614	394,438	412,509	454,126
January	351,878	383,328	385,742	407,380	451,616
February	363,568	390,363	392,056	409,120	460,459
March	367,964	396,002	395,146	413,524	471,038
April	370,221	394,230	391,005	412,465	468,684
May	371,214	393,466	393,609	407,379	478,905
June	373,246	391,619	390,973	413,157	482,522
Mean	359,631	387,641	391,780	405,849	453,078

FEMALES.

July	133,117	141,118	147,282	148,252	162,419
August	136,409	144,343	149,294	150,966	165,414
September	139,408	146,824	151,159	153,129	169,027
October	141,248	148,781	152,473	157,054	172,079
November	141,561	149,918	152,806	159,323	174,499
December	139,249	149,868	151,165	158,182	176,536
January	131,287	140,933	141,853	155,328	172,147
February	142,418	151,445	151,883	161,744	179,065
March	144,887	154,246	154,854	165,672	182,128
April	143,993	152,208	152,614	164,409	179,948
May	141,633	150,480	150,693	162,144	181,462
June	140,042	148,489	148,601	160,408	183,230
Mean	139,604	148,221	150,390	158,051	174,830

FACTORIES: MONTHLY EMPLOYMENT, AUSTRALIA—continued.

Month.	1936-37.	1937-38.	1938-39.	1939-40.	1940-41.
PERSONS.					
July	476,739	515,817	534,975	539,722	583,508
August	482,618	522,621	539,273	544,042	592,526
September	490,046	527,891	542,735	548,575	603,244
October	497,891	535,393	546,450	561,784	610,964
November	501,313	540,332	547,998	569,256	622,780
December	499,844	541,482	545,603	570,691	630,662
January	483,165	524,261	527,595	562,708	623,763
February	505,986	541,808	543,939	570,864	639,524
March	512,851	550,248	550,000	579,196	653,166
April	514,214	546,438	543,619	576,874	648,632
May	512,847	543,946	544,302	569,523	660,367
June	513,288	540,108	539,574	573,565	665,752
Mean	499,235	535,862	542,170	563,900	627,908

6. Distribution of Employees According to Age.—(i) *States.* The extension of statistics of employment in factories, which arose from the decisions of the Conference of Australian Statisticians held in March, 1937, now permits of a distribution of employees (excluding working proprietors) into three age-groups. The particulars are collected in June of each year and details showing the numbers actually employed in each age-group in June, 1940, are given below :—

FACTORIES: DISTRIBUTION OF EMPLOYEES ACCORDING TO AGE, JUNE, 1940.
(Excluding Working Proprietors.)

State.	Under 16 Years.		16 and under 21 Years.		Adults.		Total.	
	No.	%	No.	%	No.	%	No.	%
New South Wales ..	13,758	5.96	60,305	26.12	156,815	67.92	230,878	100
Victoria	11,336	5.44	50,303	24.17	146,509	70.39	208,148	100
Queensland	3,447	6.37	12,152	22.45	38,538	71.18	54,137	100
South Australia ..	2,907	6.60	10,208	23.19	30,902	70.21	44,017	100
Western Australia ..	1,201	5.54	5,474	25.25	15,002	69.21	21,677	100
Tasmania	904	6.15	2,960	20.12	10,844	73.73	14,708	100
Australia	33,553	5.85	141,402	24.65	398,610	69.50	573,565	100

(ii) *Australia.* The following table shows the same age distribution in sexes for Australia since 1937 :—

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

During June.	Under 16 Years.		16 and under 21 Years.		Adults.		Total.	
	No.	%	No.	%	No.	%	No.	%
MALES.								
1937	16,343	4.38	72,772	19.50	284,131	76.12	373,246	100
1938	16,480	4.21	77,309	19.74	297,830	76.05	391,619	100
1939	16,109	4.12	76,418	19.55	298,446	76.33	390,973	100
1940	17,077	4.13	81,016	19.61	315,064	76.26	413,157	100

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

During June.		Under 16 Years.		16 and under 21 Years.		Adults.		Total.	
		No.	%	No.	%	No.	%	No.	%
FEMALES.									
1937	..	15,762	11.26	53,207	37.99	71,073	50.75	140,042	100
1938	..	15,975	10.76	56,721	38.20	75,793	51.04	148,489	100
1939	..	15,497	10.43	56,273	37.87	76,831	51.70	148,601	100
1940	..	16,476	10.27	60,386	37.65	83,546	52.08	160,408	100
PERSONS.									
1937	..	32,105	6.26	125,979	24.54	355,204	69.20	513,288	100
1938	..	32,455	6.01	134,030	24.81	373,623	69.18	540,108	100
1939	..	31,606	5.86	132,691	24.59	375,277	69.55	539,574	100
1940	..	33,553	5.85	141,402	24.65	398,610	69.50	573,565	100

§ 5. Sex Distribution in Factories.

1. *Distribution of Persons Engaged According to Sex.*—(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 is now more than one to three. In Victoria the ratio of females to males during the year 1886 was about one to five. Five years later (1891) it was somewhat less, but in 1896 had increased to about one to three, and is now almost one to two. In the remaining States the ratio is roughly one female engaged to every four males, while for Australia as a whole it is more than one to three. The employment of women is, however, mainly confined to a few trades.

(ii) *Average Number of Males and Females Engaged, 1935-36 to 1939-40.* The next table shows the average number of males and females engaged in factories in each State during the last five years:—

FACTORIES: MALES AND FEMALES ENGAGED.

State.	1935-36.	1936-37.	1937-38.	1938-39.	1939-40.
MALES.					
New South Wales	140,896	152,064	164,391	167,172	172,259
Victoria..	121,734	128,457	136,160	136,218	143,238
Queensland	36,411	38,970	42,337	43,941	45,026
South Australia	31,391	33,400	36,274	35,406	36,326
Western Australia	16,911	18,466	18,760	18,704	18,331
Tasmania	9,211	10,055	10,680	11,150	11,754
Australia	356,554	381,412	408,602	412,591	426,934
FEMALES.					
New South Wales	52,304	56,433	60,470	61,609	64,715
Victoria..	61,656	62,926	65,633	65,613	69,223
Queensland	8,717	9,246	9,782	10,169	10,515
South Australia	7,080	7,310	7,810	7,905	8,724
Western Australia	4,082	4,245	4,373	4,507	4,636
Tasmania	2,378	2,376	2,490	2,652	2,916
Australia	136,217	142,536	150,558	152,515	160,729

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

ANNUAL PERCENTAGE INCREASES OF MALES AND FEMALES ENGAGED.

State.	1934-35— 1935-36.	1935-36— 1936-37.	1936-37— 1937-38.	1937-38— 1938-39.	1938-39— 1939-40.
MALES.					
	%	%	%	%	%
New South Wales ..	10.84	7.93	8.11	1.69	3.04
Victoria ..	8.98	5.52	5.98	0.04	5.15
Queensland ..	5.25	6.98	8.64	3.79	2.47
South Australia ..	15.11	6.40	8.60	— 2.39	2.60
Western Australia ..	18.65	9.20	1.59	— 0.30	— 1.99
Tasmania ..	10.70	9.16	6.22	4.40	5.42
Total ..	10.57	6.97	7.13	0.98	3.48
FEMALES.					
New South Wales ..	9.15	7.89	7.15	1.88	5.04
Victoria ..	4.90	2.05	4.30	— 0.03	5.50
Queensland ..	3.14	6.07	5.80	3.96	3.40
South Australia ..	13.72	3.25	6.84	1.98	9.53
Western Australia ..	15.93	3.99	3.02	3.06	2.86
Tasmania ..	6.45	— 0.08	4.80	6.51	9.95
Total ..	7.15	4.64	5.63	1.30	5.39

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 for each State for a series of years. The following table furnishes particulars for the years 1935-36 to 1939-40 :—

FACTORIES : MASCULINITY(a) OF PERSONS ENGAGED.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
1935-36 ..	269	197	418	443	414	387	262
1936-37 ..	269	204	421	457	435	423	268
1937-38 ..	271	207	433	464	429	429	271
1938-39 ..	271	208	432	445	415	420	271
1939-40 ..	266	207	428	416	395	403	266

(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 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, but fell again in 1939-40 to 266.

The decrease in masculinity in 1939-40 arose through the enlistment of men in the armed services and the expansion of industry caused by the war. In the one case it was a displacement of man-power and in the other it was the absorption of woman-power as an adjunct to the industrial effort of Australia.

4. **Employment of Females in Particular Industries.**—(i) *General.* The greater number of females in manufacturing industries are engaged in four classes, namely:—VI., Textiles; VIII., Clothing; IX., Food, Drink and Tobacco; and XII., Paper, Stationery, etc. In 1939-40 these industries accounted for 80.90 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 144 females to every 100 males and in Class VIII., Clothing, with 284 females per 100 males. The following tables show the average number of males and females engaged in each of these classes in 1939-40:—

MALES AND FEMALES ENGAGED IN PARTICULAR INDUSTRIES, 1939-40.

Class.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
MALES.							
VI. Textiles and Textile Goods ..	6,455	12,151	479	993	124	669	20,871
VIII. Clothing ..	8,446	10,746	1,510	1,165	772	208	22,847
IX. Food, Drink and Tobacco ..	19,257	20,096	14,010	5,453	3,079	2,255	64,150
XII. Paper, Stationery, etc. ..	11,833	9,875	2,583	1,626	1,264	1,100	28,281
All Other Classes ..	126,268	90,370	26,444	27,089	13,092	7,522	290,785
Total ..	172,259	143,238	45,026	36,326	18,331	11,754	426,934

FEMALES

VI. Textiles and Textile Goods ..	10,393	17,228	616	522	269	1,074	30,102
VIII. Clothing ..	24,176	28,696	5,374	3,886	2,401	348	64,881
IX. Food, Drink and Tobacco ..	9,987	8,016	1,772	1,440	814	867	22,896
XII. Paper, Stationery, etc. ..	5,637	4,053	1,007	659	461	336	12,153
All Other Classes ..	14,522	11,230	1,746	2,217	691	291	30,697
Total ..	64,715	69,223	10,515	8,724	4,636	2,916	160,729

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

FEMALES ENGAGED IN EACH INDUSTRY IN CLASS VIII., 1939-40.

Industry.	New South Wales.			Victoria.			Other States.		
	Males.	Females.	Femininity. (a)	Males.	Females.	Femininity. (a)	Males.	Females.	Femininity. (a)
Tailoring and Slop									
Clothing ..	2,184	10,425	477	1,974	6,390	324	1,349	5,069	376
Waterproof and Oil-									
skin Clothing ..	9	37	411	103	378	367	1	2	200
Dressmaking ..	33	1,535	4,652	617	7,669	1,243	79	2,343	2,966
Millinery ..	155	1,405	906	101	1,149	1,138	52	812	1,562
Shirts, Collars and									
Underclothing ..	344	4,250	1,235	419	4,286	1,023	161	1,984	1,232
Stays and Corsets ..	57	640	1,123	177	1,004	567	9	121	1,344
Handkerchiefs, Ties									
and Scarves ..	106	851	803	41	372	907	7	25	357
Hats and Caps ..	636	884	139	687	880	128	37	188	508
Gloves ..	10	29	290	24	75	313	..	..	..
Boots and Shoes ..	2,838	3,123	110	5,099	5,392	106	1,161	974	84
Boot Repairing (in-									
cluding Bespoke									
Work) ..	1,042	29	3	683	13	2	483	31	6
Boot Accessories ..	188	107	57	157	127	81	2	..	..
Umbrellas and Walk-									
ing Sticks ..	37	72	195	19	32	168	13	24	185
Dyeworks and Clean-									
ing (including Re-									
novating and									
Repairing) ..	729	613	84	566	570	101	299	434	145
Other ..	78	176	226	79	359	454	2	2	100
Total ..	8,446	24,176	286	10,746	28,696	267	3,655	12,009	329

(a) Number of females per 100 males.

§ 6. Child Labour in Factories.

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

2. *Average Number of Children Engaged, 1935-36 to 1939-40.*—In the returns for the various States, the term "child" denotes any person under sixteen years of age. Juvenile employment in factories reached a new peak in 1939-40. During the year, the number of children engaged increased in all States except Western Australia. The following table shows the average number of children of each sex employed in manufacturing industries in the years 1935-36 to 1939-40 :—

FACTORIES : CHILDREN ENGAGED.

State.	1935-36. (a)	1936-37. (b)	1937-38. (b)	1938-39. (b)	1939-40. (b)
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MALES.

New South Wales ..	4,887	5,888	6,032	5,759	6,164
Victoria ..	6,118	6,213	6,017	6,167	6,060
Queensland ..	1,543	1,680	1,835	1,790	2,068
South Australia ..	1,352	1,422	1,424	1,296	1,604
Western Australia ..	777	776	731	705	694
Tasmania ..	330	364	441	392	487
Australia ..	15,007	16,343	16,480	16,109	17,077

FEMALES.

New South Wales ..	6,485	7,539	7,499	7,084	7,594
Victoria ..	6,002	5,298	5,279	5,005	5,276
Queensland ..	1,281	1,224	1,338	1,334	1,379
South Australia ..	876	988	1,050	1,053	1,303
Western Australia ..	473	424	450	521	507
Tasmania ..	310	289	359	500	417
Australia ..	15,427	15,762	15,975	15,497	16,476

TOTAL.

New South Wales ..	11,372	13,427	13,531	12,843	13,758
Victoria ..	12,120	11,511	11,296	11,172	11,336
Queensland ..	2,824	2,904	3,173	3,124	3,447
South Australia ..	2,228	2,410	2,474	2,349	2,907
Western Australia ..	1,250	1,200	1,181	1,226	1,201
Tasmania ..	640	653	800	892	904
Australia ..	30,434	32,105	32,455	31,606	33,553

(a) Average during year.

(b) As at June of year stated.

3. **Percentage of Children on Total Number of Persons Engaged.**—The following table shows the percentage of children on the total number of persons engaged in the various States for each of the five years 1935-36 to 1939-40. In 1939-40 the percentage was highest in South Australia and lowest in Victoria.

PERCENTAGE OF CHILDREN ON TOTAL NUMBER OF PERSONS ENGAGED.

(Excluding Working Proprietors.)

State.	1935-36. (a)	1936-37. (b)	1937-38. (b)	1938-39. (b)	1939-40. (b)
	%	%	%	%	%
New South Wales ..	6.10	6.52	6.16	5.85	5.96
Victoria ..	6.91	6.24	5.83	5.81	5.44
Queensland ..	6.55	6.06	6.27	6.01	6.37
South Australia ..	6.02	5.76	5.96	5.78	6.60
Western Australia ..	6.31	5.62	5.35	5.61	5.54
Tasmania ..	5.81	5.51	6.40	6.78	6.15
Australia ..	6.44	6.25	6.01	5.86	5.85

(a) Average during year.

(b) As at June of year stated.

4. **Industries Employing Child Labour.**—The distribution of children employed in factories in June, 1940, and the percentage on the total number employed are given in the following table according to the class of industry:—

FACTORIES : CHILDREN EMPLOYED, BY CLASSES, JUNE, 1940.

Class of Industry.	Children Employed.		Total Number Employed.(a)		Percentage of Children on Total number employed.(a)	
	Males.	Females.	Males.	Females.	Males.	Females.
	No.	No.	No.	No.	%	%
I. Treatment of Non-metalliferous Mine and Quarry Products ..	168	8	9,629	252	1.74	3.17
II. Bricks, Pottery, Glass, etc. ..	681	109	13,660	1,040	4.99	10.48
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease ..	407	444	18,377	7,081	2.21	6.27
IV. Industrial Metals, Machines, Implements and Conveyances ..	7,198	858	172,149	11,322	4.18	7.58
V. Precious Metals, Jewellery and Plate ..	264	85	3,110	658	8.49	12.92
VI. Textiles and Textile Goods ..	1,594	3,707	21,778	31,871	7.32	11.63
VII. Skins and Leather ..	336	334	8,819	2,565	3.81	13.02
VIII. Clothing ..	1,148	7,090	19,136	62,664	6.00	11.31
IX. Food, Drink and Tobacco ..	1,779	2,004	60,251	21,732	2.95	9.22
X. Woodworking and Basketware ..	1,140	56	28,622	1,001	3.98	5.59
XI. Furniture, Bedding, etc. ..	631	215	10,547	2,650	5.98	8.11
XII. Paper, Stationery, Printing, Bookbinding, etc. ..	1,158	1,166	26,498	11,934	4.37	9.77
XIII. Rubber ..	87	97	5,303	2,658	1.64	3.65
XIV. Musical Instruments ..	17	5	364	91	4.67	5.49
XV. Miscellaneous Products ..	441	297	5,519	2,676	7.99	11.10
Total, Classes I. to XV. ..	17,049	16,475	403,762	160,195	4.22	10.28
XVI. Heat, Light and Power ..	28	1	9,395	213	0.30	0.47
Grand Total ..	17,077	16,476	413,157	160,408	4.13	10.27

(a) Excluding 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 given are exclusive of sums drawn by working proprietors.

1. **General.**—The importance of the manufacturing industries of Australia is indicated by the fact that the total value of the output for 1939-40 was £553,322,726, of which amount the sum of £315,313,336 represented the value of the materials used, including containers, etc., tools replaced and repairs to plant and buildings, and £16,881,467 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, £221,127,923 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 1939-40 was £114,517,633. This figure, which is exclusive of amounts drawn by working proprietors, shows an increase of £7,774,571 or 7.3 per cent., as compared with the total for the previous year.

2. **Salaries and Wages Paid.**—(i) *In Classes of Industry, 1939-40.* The amounts of salaries and wages paid in the various classes of industry in each State are shown in the following table:—

FACTORIES : SALARIES AND WAGES PAID, 1939-40.

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
	£	£	£	£	£	£	£
I. Treatment of Non-metaliferous Mine and Quarry Products ..	1,102,394	693,322	200,080	158,148	139,602	77,358	2,370,904
II. Bricks, Pottery, Glass etc. ..	1,749,949	918,583	169,415	211,626	117,233	38,177	3,204,983
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease ..	1,840,621	2,533,596	128,170	348,095	196,481	22,450	5,069,413
IV. Industrial Metals, Machines, Implements and Conveyances ..	20,344,949	11,625,920	3,074,329	3,962,754	1,457,719	943,638	41,409,309
V. Precious Metals, Jewellery and Plate ..	170,433	414,043	26,689	29,736	14,754	3,594	659,249
VI. Textiles and Textile Goods ..	2,422,705	4,424,286	159,567	233,936	55,558	261,733	7,557,785
VII. Skins and Leather ..	939,725	856,588	195,663	71,037	18,502	18,502	2,152,963
VIII. Clothing ..	4,135,370	5,259,860	741,527	514,878	355,912	63,810	11,071,357
IX. Food, Drink and Tobacco ..	5,825,080	5,751,001	3,954,104	1,273,418	835,870	517,231	18,156,704
X. Woodworking and Basketware ..	1,990,645	1,638,254	1,319,841	382,624	546,411	320,527	6,198,302
XI. Furniture, Bedding, etc. ..	1,099,534	782,161	337,335	185,304	134,128	58,028	2,596,490
XII. Paper, Stationery, Printing, Book-binding, etc. ..	3,618,653	2,875,704	722,634	451,687	367,577	291,066	8,327,321
XIII. Rubber ..	779,243	645,242	109,602	21,538	10,080	6,891	1,572,596
XIV. Musical Instruments ..	55,014	19,735	7,776	5,141	6,377	..	94,043
XV. Miscellaneous Products ..	657,255	483,369	42,109	57,491	25,992	20,344	1,286,560
Total, Classes I. to XV.	46,731,570	38,921,664	11,188,841	7,907,824	4,334,731	2,643,349	111,727,979
XVI. Heat, Light and Power ..	960,981	654,629	251,820	638,976	240,449	42,799	2,789,654
Grand Total ..	47,692,551	39,576,293	11,440,661	8,546,800	4,575,180	2,686,148	114,517,633

(ii) *Totals and Averages, 1935-36 to 1939-40.* 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 1935-36 to 1939-40. 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 are exclusive of working proprietors and of the amounts drawn by them :—

FACTORIES : TOTAL AND AVERAGE SALARIES AND WAGES PAID.

Year.	Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
		£	£	£	£	£	£	£
1935-36	Total amount paid ..	33,314,534	28,456,028	8,394,909	6,375,354	3,703,995	1,853,468	82,098,288
	Average per employee ..	178.66	162.28	194.66	172.21	187.09	168.33	173.65
1936-37	Total amount paid ..	36,642,444	30,986,895	9,088,637	7,172,638	4,157,733	2,074,785	90,123,132
	Average per employee ..	181.93	169.00	198.02	182.78	193.46	175.72	179.10
1937-38	Total amount paid ..	42,209,875	34,960,911	10,170,800	8,043,160	4,401,443	2,292,361	102,078,550
	Average per employee ..	194.24	180.33	204.73	189.10	200.92	183.33	189.80
1938-39	Total amount paid ..	44,606,497	36,026,542	10,887,229	8,169,350	4,573,558	2,479,886	106,743,062
	Average per employee ..	201.77	185.64	210.78	195.57	207.90	188.31	196.31
1939-40	Total amount paid ..	47,692,551	39,576,293	11,440,661	8,546,800	4,575,180	2,686,148	114,517,633
	Average per employee ..	207.94	193.31	215.48	197.31	210.67	191.39	202.24

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., comprising a high percentage of women and children. The highest average wages per employee in 1939-40 were paid in Queensland, Western Australia and New South Wales in that order.

Earnings per employee reached their highest level in 1927-28 with an average of £212.12. After that year there was an almost continuous decline to 1933-34 when the average rate dropped to £166.36. Thereafter the average rose each year to £202.24 in 1939-40 but this amount is still 4.7 per cent. below that attained in 1927-28.

(iii) *Earnings of Males and Females, 1939-40.* 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 1939-40 :—

SALARIES AND WAGES : MALE AND FEMALE FACTORY EMPLOYEES, 1939-40.

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
MALES.							
I. Treatment of Non-metaliferous Mine and Quarry Products ..	£ 1,093,521	£ 682,991	£ 197,121	£ 155,419	£ 137,716	£ 76,492	£ 2,343,260
II. Bricks, Pottery, Glass etc. ..	1,704,928	883,012	164,090	206,883	115,334	37,711	3,111,958
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease ..	1,521,464	2,129,901	112,574	323,386	187,596	21,193	4,296,114
IV. Industrial Metals, Machines, Implements and Conveyances ..	19,726,619	11,259,536	3,017,984	3,864,975	1,432,839	930,244	40,232,197
V. Precious Metals, Jewellery and Plate ..	151,305	377,187	24,619	28,474	14,305	3,554	599,444
VI. Textiles and Textile Goods ..	1,335,365	2,487,740	97,092	187,094	28,010	148,928	4,284,229
VII. Skins and Leather ..	835,750	752,601	182,403	49,454	61,517	17,900	1,899,625
VIII. Clothing ..	1,642,266	2,091,060	255,447	178,930	123,920	31,898	4,323,521
IX. Food, Drink and Tobacco ..	4,686,244	4,823,060	3,768,557	1,146,983	758,542	434,867	15,618,253
X. Woodworking and Basketware ..	1,950,006	1,609,142	1,292,306	375,552	544,205	315,817	6,087,028
XI. Furniture, Bedding, etc. ..	967,392	670,979	314,956	169,356	122,978	55,514	2,301,175
XII. Paper, Stationery, Printing, Book-binding, etc. ..	3,036,398	2,418,428	610,971	386,400	316,242	261,654	7,030,093
XIII. Rubber ..	628,734	545,084	75,860	19,478	9,623	6,401	1,285,180
XIV. Musical Instruments ..	44,836	19,529	7,776	4,960	6,377	..	83,478
XV. Miscellaneous Products ..	525,399	395,890	38,033	48,324	21,648	19,469	1,048,763
Total, Classes I. to XV.	39,850,227	31,146,110	10,140,780	7,145,668	3,880,852	2,361,642	94,544,318
XVI. Heat, Light and Power ..	957,739	653,601	251,069	617,583	237,831	42,399	2,760,822
Grand Total ..	40,807,966	31,799,711	10,411,458	7,763,251	4,118,683	2,404,041	97,305,140

SALARIES AND WAGES: MALE AND FEMALE FACTORY EMPLOYEES,
1939-40—*continued.*

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
FEMALES.							
I. Treatment of Non-metalliferous Mine and Quarry Products ..	£ 8,873	£ 10,331	£ 2,959	£ 2,729	£ 1,886	£ 866	£ 27,644
II. Bricks, Pottery, Glass, etc. ..	45,021	35,571	5,325	4,743	1,899	466	93,025
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease ..	319,157	403,695	15,596	24,709	8,885	1,257	773,299
IV. Industrial Metals, Machines, Implements and Conveyances ..	618,330	366,384	56,345	97,779	24,880	13,394	1,177,112
V. Precious Metals, Jewellery and Plate ..	19,128	36,856	2,070	1,262	449	40	59,805
VI. Textiles and Textile Goods ..	1,087,340	1,936,546	62,475	46,842	27,548	112,805	3,273,556
VII. Skins and Leather ..	103,975	103,987	13,260	21,994	9,520	602	253,338
VIII. Clothing ..	2,493,104	3,168,800	486,080	335,948	231,992	31,912	6,747,836
IX. Food, Drink and Tobacco ..	1,138,836	927,941	185,547	126,435	77,328	82,364	2,538,451
X. Woodworking and Basketware ..	40,639	29,112	27,535	7,072	2,206	4,710	111,274
XI. Furniture, Bedding, etc. ..	132,142	111,182	22,379	15,948	11,150	2,514	295,315
XII. Paper, Stationery, Printing, Book-binding, etc. ..	582,255	457,276	111,663	65,287	51,335	29,412	1,297,228
XIII. Rubber ..	150,509	100,158	33,742	2,060	457	490	287,416
XIV. Musical Instruments ..	10,178	206	..	181	..	..	10,565
XV. Miscellaneous Products ..	131,856	87,479	4,076	9,167	4,344	875	237,797
Total, Classes I. to XV.	6,881,343	7,775,524	1,029,052	762,156	453,879	281,707	17,183,661
XVI. Heat, Light and Power ..	3,242	1,028	151	21,393	2,618	400	28,832
Total ..	6,884,585	7,776,552	1,029,203	783,549	456,497	282,107	17,212,493

(iv) *Total and Average Earnings of Males and Females, 1935-36 to 1939-40.* Particulars for the last five years are given in the table hereunder:—

TOTAL AND AVERAGE SALARIES AND WAGES: MALES AND FEMALES.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
MALES.							
1935-36. Amount paid ..	£ 28,576,202	22,755,111	7,654,082	5,810,399	3,353,526	1,652,851	69,802,171
Per cent. on total ..	85.78	79.97	91.18	91.14	90.54	89.18	85.02
Average per employee ..	212.35	198.85	221.90	193.56	212.76	190.86	206.55
1936-37. Amount paid ..	£ 31,450,699	24,963,887	8,296,214	6,570,225	3,777,064	1,872,019	76,930,108
Per cent. on total ..	85.83	80.56	91.28	91.60	90.84	90.23	85.36
Average per employee ..	216.29	205.93	225.78	205.31	218.47	198.06	212.44
1937-38. Amount paid ..	£ 36,247,087	28,241,058	9,287,319	7,381,141	3,997,197	2,067,231	87,221,033
Per cent. on total ..	85.87	80.78	91.31	91.77	90.82	90.18	85.45
Average per employee ..	230.39	218.89	232.20	212.08	227.42	205.96	224.35
1938-39. Amount paid ..	£ 38,271,867	29,005,746	9,920,001	7,487,828	4,128,824	2,234,413	91,048,679
Per cent. on total ..	85.80	80.51	91.12	91.66	90.28	90.10	85.30
Average per employee ..	239.24	224.47	238.59	220.95	235.49	212.09	231.84
1939-40. Amount paid ..	£ 40,807,966	31,799,741	10,411,458	7,763,251	4,118,683	2,404,041	97,305,140
Per cent. on total ..	85.56	80.35	91.00	90.83	90.02	89.50	84.97
Average per employee ..	247.12	233.40	244.01	223.78	240.48	215.82	239.08

TOTAL AND AVERAGE SALARIES AND WAGES: MALES AND FEMALES

—continued.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
FEMALES.							
1935-36. Amount paid .. £	4,738,332	5,700,917	740,827	564,955	350,469	200,617	12,296,117
Per cent. on total ..	14.22	20.03	8.82	8.86	9.46	10.82	14.98
Average per employee .. £	91.30	93.58	85.80	80.70	86.82	85.33	91.19
1936-37. Amount paid .. £	5,191,745	6,023,008	792,423	602,413	380,669	202,766	13,193,024
Per cent. on total ..	14.17	19.44	8.72	8.40	9.16	9.77	14.64
Average per employee .. £	92.71	96.95	86.58	83.21	90.59	86.10	93.52
1937-38. Amount paid .. £	5,962,788	6,719,853	883,481	662,019	404,246	225,130	14,857,517
Per cent. on total ..	14.13	19.22	8.69	8.23	9.18	9.82	14.55
Average per employee .. £	99.41	103.62	91.25	85.65	93.36	91.26	99.69
1938-39. Amount paid .. £	6,334,630	7,020,796	967,228	681,522	444,734	245,473	15,694,383
Per cent. on total ..	14.20	19.49	8.88	8.34	9.72	9.90	14.70
Average per employee .. £	103.66	108.25	96.00	86.44	99.58	93.19	103.92
1939-40. Amount paid .. £	6,884,585	7,776,552	1,029,203	783,549	456,497	282,107	17,212,493
Per cent. on Total ..	14.44	19.65	9.00	9.17	9.08	10.50	15.03
Average per employee .. £	107.20	113.55	98.71	90.85	99.45	97.41	108.09

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

SALARIES AND WAGES: MANAGERS, OVERSEERS, ETC., AND OTHER EMPLOYEES, 1939-40.

Class of Industry.	Salaries and Wages Paid to—						
	Managers, Overseers, Accountants and Clerks.		All Other Employees.		All Employees.		
	Males.	Females.	Males.	Females.	Males.	Females.	Total.
I. Treatment of Non-metalliferous Mine and Quarry Products ..	£ 324,383	£ 23,714	£ 2,018,877	£ 3,930	£ 2,343,260	£ 27,644	£ 2,370,904
II. Bricks, Pottery, Glass, etc. ..	384,948	40,975	2,727,010	52,050	3,111,958	93,025	3,204,983
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease ..	845,156	182,674	3,450,958	590,625	4,296,114	773,299	5,069,413
IV. Industrial Metals, Machines, Implements and Conveyances ..	5,381,189	624,891	34,851,008	552,221	40,232,197	1,177,112	41,409,309
V. Precious Metals, Jewellery and Plate ..	59,023	16,840	540,421	42,965	599,444	59,805	659,249
VI. Textiles and Textile Goods ..	745,440	190,769	3,538,789	3,082,787	4,284,229	3,273,556	7,557,785
VII. Skins and Leather ..	226,007	31,745	1,673,618	221,593	1,899,625	253,338	2,152,963
VIII. Clothing ..	618,053	372,547	3,705,468	6,375,289	4,323,521	6,747,836	11,071,357
IX. Food, Drink, and Tobacco ..	2,938,824	491,963	12,679,429	2,046,488	15,618,253	2,538,451	18,156,704
X. Woodworking and Basketware ..	663,146	83,411	5,423,882	27,863	6,087,028	111,274	6,198,302
XI. Furniture, Bedding, etc. ..	201,836	57,444	2,099,339	237,871	2,301,175	295,315	2,596,490
XII. Paper, Stationery, Printing, Book-binding, etc. ..	1,227,970	300,671	5,802,123	996,557	7,030,093	1,297,228	8,327,321
XIII. Rubber ..	275,279	41,955	1,000,901	245,461	1,285,180	287,416	1,572,596
XIV. Musical Instruments ..	14,712	5,440	68,766	5,125	83,478	10,565	94,043
XV. Miscellaneous Products ..	185,591	49,577	863,172	188,220	1,048,763	237,797	1,286,560
Total, Classes I. to XV.	14,091,557	2,514,616	80,452,761	14,669,045	94,544,318	17,183,661	111,727,979
XVI. Heat, Light and Power ..	590,258	25,625	2,170,564	3,207	2,760,822	28,832	2,789,654
Grand Total ..	14,681,815	2,540,241	82,623,325	14,672,252	97,305,140	17,212,493	114,517,633
Average paid per employee ..	361.44	137.26	225.51	104.25	239.08	108.09	202.24

3. Power, Fuel and Light Used.—(i) *In Classes of Industry.* 1939-40. The expenditure by factories on power, fuel and light is of considerable importance; in 1939-40 it amounted to £16,881,467, an increase of £1,181,546 as compared with the previous year. The following table shows the value of power, fuel and light used in the different classes of industry in 1939-40 :—

FACTORIES : VALUE OF POWER, FUEL AND LIGHT USED (a), 1939-40.

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
	£	£	£	£	£	£	£
I. Treatment of Non-metalliferous Mine and Quarry Products ..	350,107	245,896	73,500	55,128	86,816	68,304	879,751
II. Bricks, Pottery, Glass etc. ..	500,767	323,046	46,637	77,129	49,301	12,318	1,009,198
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease ..	268,159	299,963	16,135	61,927	43,713	4,228	694,125
IV. Industrial Metals, Machines, Implements and Conveyances ..	3,374,869	663,950	214,526	290,112	98,397	239,935	4,881,789
V. Precious Metals, Jewellery and Plate ..	7,252	20,263	991	2,582	533	178	31,799
VI. Textiles and Textile Goods ..	223,490	453,216	14,083	36,264	5,915	25,227	758,195
VII. Skins and Leather ..	93,953	77,516	21,752	2,235	9,809	4,211	209,476
VIII. Clothing ..	117,908	148,061	18,848	17,268	9,567	1,938	313,590
IX. Food, Drink and Tobacco ..	1,009,110	904,964	566,809	241,800	185,618	62,224	2,970,525
X. Woodworking and Basketware ..	117,309	98,726	67,936	22,698	41,711	20,856	369,236
XI. Furniture, Bedding, etc. ..	31,084	27,462	9,407	8,756	3,991	1,784	82,484
XII. Paper, Stationery, Printing, Book-binding etc. ..	193,473	243,522	34,364	19,868	19,457	77,734	588,418
XIII. Rubber ..	101,851	139,883	10,381	3,168	1,478	881	257,642
XIV. Musical Instruments ..	4,443	450	44	106	44	..	5,087
XV. Miscellaneous Products ..	39,668	35,667	1,027	2,549	896	503	80,310
Total, Classes I. to XV.	6,433,443	3,682,585	1,096,440	841,590	557,246	520,321	13,131,625
XVI. Heat, Light and Power ..	1,702,171	675,834	442,342	288,547	640,948	..	3,749,842
Grand Total ..	8,135,614	4,358,419	1,538,782	1,130,137	1,198,194	520,321	16,881,467

(a) Including lubricants and water

(ii) *Values of Items,* 1939-40. The following table shows the values of the various items of power, fuel and light used in factories in each State during the year 1939-40 :—

FACTORIES : VALUE OF ITEMS OF POWER, FUEL AND LIGHT USED, 1939-40.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
	£	£	£	£	£	£	£
Coal ..	2,489,919	1,632,492	704,719	361,916	289,952	72,399	5,551,397
Coke ..	1,506,193	187,543	37,124	48,493	30,490	4,779	1,814,622
Wood ..	141,808	208,761	149,239	78,954	210,547	78,262	867,571
Other (Charcoal, etc.) ..	161,628	56,176	14,468	36,878	7,679	190	277,019
Fuel Oil ..	558,081	340,190	128,742	119,194	310,822	43,749	1,500,778
Gas ..	721,709	130,519	24,354	25,963	13,009	3,886	919,240
Electricity ..	1,952,133	1,365,286	300,655	362,465	224,389	290,208	4,495,136
Water and Lubricating Oil ..	604,143	437,452	179,481	96,274	111,306	27,048	1,455,704
Total ..	8,135,614	4,358,419	1,538,782	1,130,137	1,198,194	520,321	16,881,467

(iii) *Quantities,* 1939-40. The following table shows the quantities of certain items of power, fuel and light used in factories in each State during the year 1939-40 :—

FACTORIES : QUANTITY OF POWER, FUEL AND LIGHT USED, 1939-40.

Particulars.	Unit.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Coal ..	Ton	2,419,416	3,783,805	484,880	242,271	226,062	55,026	7,211,460
Coke ..	"	1,472,155	102,761	21,595	25,657	12,922	2,043	1,637,133
Wood ..	"	185,674	444,401	253,475	122,001	365,054	130,819	1,501,424
Fuel Oil ..	Gal	21,454,222	13,265,033	3,373,085	4,341,932	9,604,602	2,172,163	54,212,027

(iv) *Total Value, 1935-36 to 1939-40.*—The next table gives the sums expended on power, fuel and light during the last five years :—

FACTORIES : VALUE OF POWER, FUEL AND LIGHT USED.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
	£	£	£	£	£	£	£
1935-36 ..	6,273,485	3,505,321	1,080,525	972,636	852,327	592,001	13,276,295
1936-37 ..	6,464,942	3,677,488	1,225,255	856,808	939,166	402,071	13,565,730
1937-38 ..	7,123,961	4,032,190	1,440,750	919,858	1,095,225	405,721	15,047,705
1938-39 ..	7,651,627	3,999,934	1,423,549	1,017,537	1,169,268	438,006	15,699,921
1939-40 ..	8,135,614	4,358,419	1,538,782	1,130,137	1,198,194	520,321	16,881,467

4. *Value of Materials Used.*—(i) *In Classes of Industry, 1939-40.* 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 1939-40 was £315,076,697, representing 56.95 per cent. of the value of the final output (see par. 5). The table hereunder shows the value of the materials used in various classes of industry in each State :—

FACTORIES : VALUE OF MATERIALS USED, 1939-40.

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
	£	£	£	£	£	£	£
I. Treatment of Non-metaliferous Mine and Quarry Products ..	2,905,326	1,267,092	376,547	197,488	214,928	158,163	5,119,544
II. Bricks, Pottery, Glass, etc. ..	1,143,678	485,342	81,545	190,629	69,158	29,495	1,999,847
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease ..	9,248,465	6,378,155	651,502	1,399,698	1,098,749	137,589	18,914,158
IV. Industrial Metals, Machines, Implements and Conveyances ..	50,217,283	15,396,087	4,540,105	8,745,706	1,462,155	1,667,889	82,029,225
V. Precious Metals, Jewellery and Plate ..	184,770	530,481	12,158	29,367	8,450	629	765,855
VI. Textiles and Textile Goods ..	6,891,522	10,297,405	571,261	1,049,961	153,215	643,879	19,607,243
VII. Skins and Leather ..	3,494,263	2,971,408	1,550,021	157,018	161,065	110,603	8,444,378
VIII. Clothing ..	7,076,465	9,901,804	1,091,131	629,445	480,807	72,762	19,252,414
IX. Food, Drink and Tobacco ..	35,464,126	34,967,771	32,837,477	7,370,312	4,675,913	2,347,990	117,663,589
X. Woodworking and Basketware ..	5,024,125	3,262,076	2,778,160	1,200,195	879,807	521,804	13,666,167
XI. Furniture, Bedding, etc. ..	2,092,301	1,820,546	547,206	343,383	243,803	72,880	5,120,119
XII. Paper, Stationery, Printing, Book-binding, etc. ..	6,099,223	4,464,573	744,866	536,670	390,091	332,650	12,568,073
XIII. Rubber ..	2,326,474	2,435,906	211,023	44,396	21,492	13,865	5,053,156
XIV. Musical Instruments ..	47,046	7,779	1,760	202	587	..	57,374
XV. Miscellaneous Products ..	1,172,774	888,563	42,302	87,009	34,212	17,396	2,242,256
Total, Classes I. to XV.	133,387,841	95,074,988	46,037,064	21,981,479	9,894,432	6,127,594	312,503,398
XVI. Heat, Light and Power ..	1,065,891	842,563	204,158	181,402	186,932	92,350	2,573,299
Grand Total ..	134,453,735	95,917,551	46,241,222	22,162,881	10,081,364	6,219,944	315,076,697

(ii) *Total Amount, 1935-36 to 1939-40.* The following table gives the values of materials used in factories for the last five years :—

FACTORIES : VALUE OF MATERIALS USED.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
	£	£	£	£	£	£	£
1935-36 ..	98,950,321	76,494,159	30,901,341	19,261,750	9,172,205	4,195,021	238,974,797
1936-37 ..	109,593,494	80,302,423	34,612,231	21,399,805	9,427,259	5,243,691	260,578,903
1937-38 ..	122,591,463	88,129,145	39,595,695	21,469,924	9,986,441	5,470,744	287,243,412
1938 39 ..	120,501,795	82,971,608	42,596,049	20,308,797	9,603,657	5,321,540	281,303,446
1939-40 ..	134,453,735	95,917,551	46,241,222	22,162,881	10,081,364	6,219,944	315,076,697

5. **Value of Output.**—(i) *In Classes of Industry, 1939-40.* The value of the output of new goods manufactured and of repairs effected in factories of various classes in each State in 1939-40 is shown in the following table. The figures given represent not only the increase in value due to the process of manufacture, but include also the values of the raw materials and the power, fuel and light used. The difference between the sum of the values of the materials and the power fuel and light used, and the output is the real value of factory production (see par. 6).

FACTORIES : VALUE OF OUTPUT, 1939-40.

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
	£	£	£	£	£	£	£
I. Treatment of Non-metalliferous Mine and Quarry Products ..	5,555,892	3,118,040	823,409	546,321	603,559	517,405	11,166,626
II. Bricks, .. Pottery, Glass, etc. ..	4,618,352	2,423,409	416,850	665,486	324,990	104,173	8,553,260
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease ..	16,402,471	12,292,943	1,017,089	2,197,162	1,645,697	207,708	33,763,070
IV. Industrial Metals, Machines, Implements and Conveyances ..	87,922,694	33,932,842	9,900,559	14,566,998	3,854,638	3,854,654	154,032,385
V. Precious Metals, Jewellery and Plate ..	476,166	1,175,843	57,903	82,936	33,968	5,580	1,832,396
VI. Textiles and Textile Goods ..	11,478,470	18,983,926	859,748	1,509,409	280,946	1,323,877	34,436,376
VII. Skins and Leather ..	5,176,731	4,610,192	1,490,825	271,648	304,867	156,737	12,461,000
VIII. Clothing ..	13,803,726	18,294,893	2,296,193	1,407,070	1,047,314	175,591	37,024,787
IX. Food, Drink and Tobacco ..	53,656,232	49,968,975	41,471,741	10,307,014	7,206,231	3,460,187	166,070,380
X. Woodworking and Basketware ..	8,491,019	6,012,196	4,974,331	1,866,866	1,721,952	1,049,928	24,116,292
XI. Furniture, Bedding, etc. ..	3,814,773	3,216,575	1,074,836	642,374	474,321	162,742	9,385,621
XII. Paper, Stationery, Printing, Book-binding, etc. ..	13,211,713	9,882,802	1,996,318	1,295,299	1,099,173	1,029,384	28,514,689
XIII. Rubber ..	3,448,414	4,383,070	393,083	94,171	53,643	28,181	8,400,562
XIV. Musical Instruments ..	135,936	40,049	11,818	6,883	9,099	..	203,785
XV. Miscellaneous Products ..	2,506,601	1,807,711	110,004	201,275	76,025	52,997	4,754,613
Total, Classes I. to XV. ..	239,699,190	170,143,466	67,344,707	35,660,912	18,738,423	12,129,144	534,715,842
XVI. Heat, Light and Power ..	8,499,466	4,160,935	1,408,435	2,035,626	1,568,863	864,150	18,537,475
Grand Total ..	239,198,656	174,304,401	68,753,142	37,696,538	20,307,286	12,993,294	553,253,317

(ii) *Total, 1935-36 to 1939-40.* The following statement shows the value of output in each State during the five years ended 1939-40 :—

FACTORIES : VALUE OF OUTPUT.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
	£	£	£	£	£	£	£
1935-36 ..	174,693,761	134,043,170	47,664,810	31,904,091	17,528,741	8,853,882	414,688,455
1936-37 ..	192,812,414	142,692,192	53,022,008	34,528,176	18,313,122	10,461,366	451,829,278
1937-38 ..	214,883,557	157,050,725	59,639,403	36,239,937	19,643,960	11,321,559	498,779,141
1938-39 ..	218,419,313	152,967,611	63,321,073	35,005,264	19,548,511	11,158,205	500,419,977
1939-40 ..	239,198,656	174,304,401	68,753,142	37,696,538	20,307,286	12,993,294	553,253,317

6. Value of Production.—(i) *In Classes of Industry, 1939-40.* The value of production for any industry was defined by the Conference of Statisticians at Sydney in 1925 as "the value of consumable commodities produced during the year, deducting, so far as possible, the value of goods consumed in process of production".

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

The figure thus calculated is, however, not the net value of production. The deduction for depreciation, particulars of which are shown in § 8, par. 4, was estimated at £11,800,881 for 1939-40. Many miscellaneous expenses, also, such as insurance and advertising, have not been taken into account. Hence, 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 1939-40 in each State for the various classes of factories :—

FACTORIES : VALUE OF PRODUCTION, 1939-40.

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
	£	£	£	£	£	£	£
I. Treatment of Non-metalliferous Mine and Quarry Products ..	2,300,459	1,605,052	373,362	293,705	303,815	290,938	5,167,331
II. Bricks, Pottery, Glass, etc. ..	2,973,907	1,615,021	288,668	397,728	206,531	62,360	5,544,215
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease ..	6,885,847	5,614,825	349,452	735,537	503,235	65,891	14,154,787
IV. Industrial Metals, Machines, Implements and Conveyances ..	34,330,542	17,872,805	5,145,928	5,531,180	2,294,086	1,946,830	67,121,371
V. Precious Metals, Jewellery and Plate ..	284,144	625,099	44,754	50,987	24,985	4,773	1,034,742
VI. Textiles and Textile Goods ..	4,363,458	8,233,305	274,404	423,184	121,816	654,771	14,070,938
VII. Skins and Leather ..	1,588,515	1,561,268	369,052	112,395	133,993	41,923	3,807,146
VIII. Clothing ..	6,609,353	8,245,028	1,186,214	760,357	556,940	100,891	17,458,783
IX. Food, Drink, and Tobacco ..	17,182,996	14,096,240	8,067,455	2,694,902	2,344,700	1,049,973	45,436,266
X. Woodworking and Basketware ..	3,349,585	2,651,394	2,128,235	643,973	800,434	507,268	10,080,889
XI. Furniture, Bedding, etc. ..	1,691,388	1,368,567	518,223	290,235	226,527	88,078	4,183,018
XII. Paper, Stationery, Printing, Book-binding, etc. ..	6,919,017	5,174,707	1,217,088	738,761	689,625	619,000	15,358,198
XIII. Rubber ..	1,020,089	1,807,281	171,679	46,607	30,673	13,435	3,089,764
XIV. Musical Instruments	84,447	31,820	10,014	6,575	8,468	..	141,324
XV. Miscellaneous Products ..	1,294,159	883,481	66,675	111,717	40,917	35,098	2,432,047
Total, Classes I. to XV.	90,877,906	71,385,893	20,211,203	12,837,843	8,286,745	5,481,229	209,080,819
XVI. Heat, Light and Power ..	5,731,401	2,642,538	761,935	1,565,677	740,983	771,800	12,214,334
Grand Total ..	96,609,307	74,028,431	20,973,138	14,403,520	9,027,728	6,253,029	221,295,153

(ii) *Total and Averages, 1935-36 to 1939-40.* The value of production and the amount per person engaged and per head of population are shown in the following table for the years specified :—

FACTORIES : VALUE OF PRODUCTION.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
VALUE.							
	£	£	£	£	£	£	£
1935-36 ..	69,469,955	54,043,690	15,682,944	11,669,705	7,504,209	4,066,860	162,437,363
1936-37 ..	76,753,978	58,712,281	17,184,522	12,271,563	7,946,697	4,815,604	177,684,645
1937-38 ..	85,168,133	64,889,390	18,602,958	13,820,155	8,562,294	5,445,094	196,488,024
1938-39 ..	90,265,891	65,996,069	19,301,475	13,678,930	8,775,586	5,398,659	203,416,610
1939-40 ..	96,609,307	74,028,431	20,973,138	14,403,520	9,027,728	6,253,029	221,295,153

PER PERSON ENGAGED.

	£	£	£	£	£	£	£
1935-36 ..	360	295	348	303	357	351	330
1936-37 ..	368	307	356	301	359	387	339
1937-38 ..	379	322	357	313	370	413	381
1938-39 ..	395	327	357	315	378	391	360
1939-40 ..	403	348	378	320	393	426	377

PER HEAD OF POPULATION.

	£	£	£	£	£	£	£
1935-36 ..	26.15	29.32	16.13	19.91	16.76	17.66	24.06
1936-37 ..	28.63	31.70	17.46	20.86	17.59	20.74	26.11
1937-38 ..	31.44	34.87	18.69	23.40	18.73	23.17	28.62
1938-39 ..	33.02	35.20	19.17	23.01	18.97	22.79	29.36
1939-40 ..	34.97	39.18	20.60	24.12	19.36	26.20	31.65

7. *Value of Output and Cost of Production.*—As the total value of the output for Australia for 1939-40 was estimated at £553,253,317, there remained, after payment of £315,076,697, the value of the materials used, of £114,517,633 for salaries and wages, and of £16,881,467 for power, fuel and light, the sum of £106,777,520 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 1939-40 :—

FACTORIES : VALUE OF OUTPUT AND COST OF PRODUCTION, 1939-40.

State.	Materials Used. (a)	Power, Fuel and Light. (b)	Salaries and Wages.	All other Expenditure, Interest, Profits, etc.	Total Value of Output.
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VALUE AND COST, ETC.

	£	£	£	£	£
New South Wales ..	134,453,735	8,135,614	47,692,551	48,916,756	239,198,656
Victoria ..	95,917,551	4,358,419	39,576,293	34,452,138	174,304,401
Queensland ..	46,241,222	1,538,782	11,440,661	9,532,477	68,753,142
South Australia ..	22,162,881	1,130,137	8,546,800	5,856,720	37,690,538
Western Australia ..	10,081,364	1,198,194	4,575,180	4,452,548	20,307,286
Tasmania ..	6,219,944	520,321	2,686,148	3,566,881	12,993,294
Australia ..	315,076,697	16,881,467	114,517,633	106,777,520	553,253,317

(a) Including the value of containers, packing, etc., also the cost of tools replaced and repairs to plant.

(b) Including lubricants and water.

FACTORIES : VALUE OF OUTPUT AND COST OF PRODUCTION, 1939-40—
continued.

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

	%	%	%	%	%
New South Wales ..	56.21	3.40	19.94	20.45	100.00
Victoria ..	55.03	2.50	22.71	19.76	100.00
Queensland ..	67.26	2.24	16.64	13.86	100.00
South Australia ..	58.79	3.00	22.67	15.54	100.00
Western Australia ..	49.64	5.90	22.53	21.93	100.00
Tasmania ..	47.87	4.00	20.67	27.46	100.00
Australia ..	56.95	3.05	20.70	19.30	100.00

(a) Including the value of containers, packing, etc., also the cost of tools replaced and repairs to plant.
(b) Including 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 1939-40 :—

FACTORIES : VALUE OF LAND, BUILDINGS, PLANT AND MACHINERY, 1939-40.

Value of—	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
	£	£	£	£	£	£	£
Land and buildings	58,939,150	43,791,176	12,456,458	9,539,249	6,863,468	3,775,605	135,365,106
Plant and machinery	64,801,584	40,905,886	18,217,831	11,106,194	8,025,068	6,787,888	149,844,451
Total ..	123,740,734	84,697,062	30,674,289	20,645,443	14,888,536	10,563,493	285,209,557

The values recorded in this section are generally the values apportioned in the books of the individual firms after allowance has been made for depreciation. The totals shown in the table consequently do not represent the actual amount of capital invested in the items specified.

2. *Value of Land and Buildings.*—(i) *Total for Australia, 1935-36 to 1939-40.* The appended table shows for Australia as a whole the approximate value of land and buildings occupied in connexion with manufacturing industries from 1935-36 to 1939-40 :—

FACTORIES : VALUE OF LAND AND BUILDINGS, AUSTRALIA.

Class of Industry.	1935-36.	1936-37.	1937-38.	1938-39.	1939-40.
	£	£	£	£	£
I. Treatment of Non-metalliferous Mine and Quarry Products ..	2,412,145	2,617,765	2,728,772	2,778,746	2,806,373
II. Bricks, Pottery, Glass, etc.	2,706,575	2,686,930	2,790,201	2,953,557	3,129,389
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease ..	6,398,332	6,596,554	6,843,335	7,377,551	8,387,491
IV. Industrial Metals, Machines, Implements and Conveyances ..	27,873,261	30,061,037	32,420,428	34,841,028	35,853,507
V. Precious Metals, Jewellery and Plate ..	561,735	602,685	616,934	633,009	644,060
VI. Textiles and Textile Goods ..	5,447,503	5,558,420	5,754,347	5,999,671	6,432,183
VII. Skins and Leather ..	1,833,335	2,008,167	1,990,451	2,095,886	2,134,185
VIII. Clothing ..	9,750,733	10,282,902	10,359,944	10,623,619	10,650,856
IX. Food, Drink and Tobacco ..	28,928,977	30,166,301	31,953,396	33,273,248	34,136,115
X. Woodworking and Basketware ..	3,769,305	3,838,701	3,904,773	4,106,963	4,297,248
XI. Furniture, Bedding, etc.	2,196,782	2,370,393	2,440,997	2,533,254	2,562,861
XII. Paper, Stationery, Printing, Bookbinding, etc.	9,564,871	9,668,602	9,956,433	10,639,315	10,945,294
XIII. Rubber ..	1,842,048	1,751,707	1,790,590	1,676,043	1,708,386
XIV. Musical Instruments ..	115,948	109,531	98,947	104,838	108,594
XV. Miscellaneous Products ..	1,213,697	1,323,085	1,306,371	1,432,857	1,535,993
Total, Classes I. to XV.	104,615,247	109,642,780	115,036,919	121,069,585	125,332,535
XVI. Heat, Light and Power ..	9,994,655	9,883,357	9,597,095	9,850,829	10,032,571
Grand Total ..	114,609,902	119,526,137	124,634,014	130,920,414	135,365,106

(ii) *In Classes of Industry in States, 1939-40.* The following table gives particulars of the various classes of industry in each State.

FACTORIES : VALUE OF LAND AND BUILDINGS, 1939-40.

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
	£	£	£	£	£	£	£
I. Treatment of Non-metalliferous Mine and Quarry Products ..	1,400,154	782,555	213,651	166,284	96,042	147,687	2,806,373
II. Bricks, Pottery, Glass, etc.	1,885,630	822,681	136,114	158,257	104,883	21,824	3,129,389
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease ..	3,057,566	3,517,205	210,192	851,677	667,051	83,800	8,387,491
IV. Industrial Metals, Machines, Implements and Conveyances ..	17,756,081	10,077,568	2,406,521	2,885,021	1,753,386	974,930	35,853,507
V. Precious Metals, Jewellery and Plate ..	186,461	352,062	27,977	43,825	25,080	8,655	644,060
VI. Textiles and Textile Goods ..	2,214,549	3,557,103	113,902	234,878	64,682	247,069	6,432,183
VII. Skins and Leather ..	836,097	962,878	122,712	65,498	126,178	20,822	2,134,185
VIII. Clothing ..	4,446,218	4,438,275	620,992	544,818	498,354	102,199	10,650,856
IX. Food, Drink and Tobacco ..	12,501,102	10,057,636	5,939,154	2,638,672	1,954,963	1,044,588	34,136,115
X. Woodworking and Basketware ..	1,934,405	1,089,672	509,785	327,321	278,042	158,023	4,297,248
XI. Furniture, Bedding, etc.	996,301	937,804	283,668	162,094	134,698	48,296	2,562,861
XII. Paper, Stationery, Printing, Bookbinding, etc.	4,676,051	3,631,443	987,487	690,235	549,175	410,903	10,945,294
XIII. Rubber ..	813,653	647,614	123,028	57,879	33,254	30,500	1,708,386
XIV. Musical Instruments ..	60,603	32,546	7,460	1,275	6,710		108,594
XV. Miscellaneous Products ..	804,083	530,837	55,948	89,406	46,130	9,589	1,535,993
Total, Classes I. to XV.	53,568,954	41,437,879	11,758,591	8,917,110	6,340,626	3,309,345	125,332,535
XVI. Heat, Light and Power ..	5,370,196	2,353,297	697,867	622,109	522,842	466,260	10,032,571
Grand Total ..	58,939,150	43,791,176	12,456,458	9,539,249	6,863,468	3,775,605	135,365,106

(iii) *Totals in each State.* The total value of land and buildings in each State from 1935-36 to 1939-40 is given hereunder :—

FACTORIES : VALUE OF LAND AND BUILDINGS.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
	£	£	£	£	£	£	£
1935-36 ..	49,494,222	37,678,298	10,514,513	8,268,807	5,978,111	2,675,951	114,609,902
1936-37 ..	51,629,598	38,948,268	11,483,161	8,133,147	6,279,305	3,052,658	119,526,137
1937-38 ..	54,471,643	40,339,541	11,982,620	8,379,334	6,471,367	2,989,509	124,634,014
1938-39 ..	57,353,625	42,026,245	12,299,089	8,710,700	6,813,653	3,717,102	130,920,414
1939-40 ..	58,939,150	43,791,176	12,456,458	9,539,249	6,863,468	3,775,605	135,365,106

Prior to 1929-30 the increase in the value of land and buildings was uninterrupted, rising from £23 million in 1903 to £118 million in 1929-30, a growth of £95 million in 27 years. During the three years ending 1932-33, however, there was a decline of £12 million to £105.8 million, but since that year the value has risen to £135.4 million.

3. *Value of Plant and Machinery.*—(i) *Total for Australia, 1935-36 to 1939-40.* The following table shows for Australia the approximate value of plant and machinery used in factories in each of the years specified :—

FACTORIES : VALUE OF PLANT AND MACHINERY, AUSTRALIA.

Class of Industry.	1935-36.	1936-37.	1937-38.	1938-39.	1939-40.
	£	£	£	£	£
I. Treatment of Non-metalliferous Mine and Quarry Products ..	5,249,528	4,881,743	6,504,872	7,028,382	6,765,086
II. Bricks, Pottery, Glass, etc. ..	2,865,499	2,858,777	3,019,476	3,144,586	3,090,862
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease ..	5,722,327	5,923,776	6,251,926	6,754,248	7,863,905
IV. Industrial Metals, Machines, Implements and Conveyances ..	25,604,490	26,940,963	29,285,995	33,037,801	34,400,778
V. Precious Metals, Jewellery and Plate ..	175,884	187,373	196,652	197,059	209,507
VI. Textiles and Textile Goods ..	6,052,307	6,505,668	6,463,604	6,657,416	7,010,262
VII. Skins and Leather ..	898,598	902,197	900,239	973,181	1,022,965
VIII. Clothing ..	2,256,669	2,326,915	2,431,475	2,557,388	2,603,073
IX. Food, Drink and Tobacco ..	30,041,612	30,244,206	31,198,129	32,100,675	32,611,143
X. Woodworking and Basketware ..	3,629,550	3,597,835	3,759,553	3,907,551	4,079,562
XI. Furniture, Bedding, etc. ..	678,710	704,708	725,420	727,857	733,229
XII. Paper, Stationery, Printing, Bookbinding, etc. ..	7,532,292	7,773,218	8,436,942	9,188,227	10,010,470
XIII. Rubber ..	1,464,225	1,401,645	1,470,300	1,367,859	1,393,609
XIV. Musical Instruments ..	18,157	14,800	10,750	11,702	11,422
XV. Miscellaneous Products ..	579,858	671,173	719,309	758,273	812,729
Total, Classes I. to XV.	92,769,706	94,934,997	101,374,642	108,412,205	112,618,602
XVI. Heat, Light and Power ..	32,461,385	31,742,098	31,989,944	35,249,922	37,225,849
Grand Total ..	125,231,091	126,677,095	133,364,586	143,662,127	149,844,451

In 1929-30 the amount invested in plant and machinery was £127.6 million, declining to £120.2 million during the next four years, but has since risen to the record figure of £149.8 million for 1939-40. The increase of £6 million recorded during the latter year was due to the development in the heavy industries included in Class IV. and in the Heat, Light and Power group in Class XVI, while substantial increases have occurred in Class III., Chemicals, etc., and in Class XII., Paper, Stationery, etc.

(ii) *Totals in each State.* The following table shows the value of plant and machinery in each State during the last five years. The chief increases during 1939-40 were recorded in New South Wales, Victoria and South Australia :—

FACTORIES : VALUE OF PLANT AND MACHINERY.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
	£	£	£	£	£	£	£
1935-36 ..	51,964,982	34,194,608	17,736,543	9,280,335	6,063,901	5,990,722	125,231,091
1936-37 ..	51,979,614	36,213,626	17,460,253	9,130,748	7,142,368	4,750,486	126,677,095
1937-38 ..	57,222,693	36,868,289	17,734,600	9,402,792	7,459,525	4,676,687	133,364,586
1938-39 ..	62,692,956	38,626,743	18,095,415	9,749,679	8,095,064	6,402,270	143,662,127
1939-40 ..	64,801,584	40,905,886	18,217,831	11,106,194	8,025,068	6,787,888	149,844,451

(iii) *Value according to Industry, 1939-40.* The following table shows the value of plant and machinery used in factories in each State during 1939-40, classified according to industry :—

FACTORIES : VALUE OF PLANT AND MACHINERY, 1939-40.

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
	£	£	£	£	£	£	£
I. Treatment of Non-metallic Mine and Quarry Products ..	4,291,304	1,611,636	293,966	282,863	144,190	141,127	6,765,086
II. Bricks, Pottery, Glass, etc. ..	1,757,085	853,810	132,460	177,821	135,616	34,070	3,090,862
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease ..	1,956,272	3,304,899	168,918	1,512,451	873,360	48,005	7,863,905
IV. Industrial Metals, Machines, Implements and Conveyances ..	20,439,672	6,913,678	2,176,302	2,666,951	953,609	1,250,566	34,400,778
V. Precious Metals, Jewellery and Plate ..	52,689	135,713	4,862	10,616	3,624	2,003	209,507
VI. Textiles and Textile Goods ..	2,416,939	3,846,599	130,503	320,665	76,546	219,010	7,010,262
VII. Skins and Leather ..	440,751	369,781	106,653	19,676	64,807	21,297	1,022,965
VIII. Clothing ..	933,350	1,255,788	164,803	133,614	98,850	16,668	2,603,073
IX. Food, Drink and Tobacco ..	10,031,397	7,282,727	11,096,433	1,941,987	1,697,415	561,184	32,611,143
X. Woodworking and Basketware ..	1,397,429	940,949	795,094	205,354	438,916	301,820	4,079,562
XI. Furniture, Bedding, etc. ..	286,222	213,670	86,953	85,634	41,634	19,116	733,229
XII. Paper, Stationery, Printing, Book-binding, etc. ..	4,246,870	3,359,462	677,233	538,968	340,717	847,220	10,010,470
XIII. Rubber ..	516,238	785,749	57,000	20,077	8,662	5,883	1,393,609
XIV. Musical Instruments ..	7,471	2,928	228	402	393	..	11,422
XV. Miscellaneous Products ..	455,951	302,649	13,707	22,456	11,732	6,234	812,729
Total, Classes I. to XV.	49,229,640	31,180,038	15,905,115	7,939,535	4,890,071	3,474,203	112,618,602
XVI. Heat, Light and Power ..	15,571,944	9,725,848	2,312,716	3,166,659	3,134,997	3,113,685	37,225,849
Grand Total ..	64,801,584	40,905,886	18,217,831	11,106,194	8,025,068	6,787,888	149,844,451

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 1939-40.

ALLOWANCE FOR DEPRECIATION OF LAND AND BUILDINGS AND PLANT AND MACHINERY, 1939-40.

Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
	£	£	£	£	£	£	£
I. Treatment of Non-metalliferous Mine and Quarry Products ..	405,644	101,473	31,159	8,440	23,728	40,007	610,451
II. Bricks, Pottery, Glass, etc. ..	193,901	129,922	18,750	29,075	15,435	1,743	388,826
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease ..	254,287	337,027	16,860	38,238	62,594	5,669	714,675
IV. Industrial Metals, Machines, Implements and Conveyances ..	2,065,788	664,725	196,817	233,496	56,434	121,604	3,338,864
V. Precious Metals, Jewellery and Plate ..	4,000	11,170	377	1,076	253	155	17,031
VI. Textiles and Textile Goods ..	223,696	507,647	14,236	23,113	6,292	28,187	803,171
VII. Skins and Leather ..	36,769	42,986	6,990	1,278	3,706	2,190	93,919
VIII. Clothing ..	89,918	120,478	10,310	7,889	7,283	1,729	237,607
IX. Food, Drink and Tobacco ..	787,626	688,268	693,726	187,133	130,563	49,625	2,536,941
X. Woodworking and Basketware ..	132,456	85,731	70,431	26,295	45,032	23,849	383,794
XI. Furniture, Bedding, etc. ..	28,186	20,848	13,136	10,226	10,768	1,428	84,592
XII. Paper, Stationery, Printing, Book-binding, etc. ..	334,786	356,814	69,471	49,582	34,363	64,058	909,074
XIII. Rubber ..	120,810	87,760	6,360	1,905	1,200	1,242	219,277
XIV. Musical Instruments ..	1,998	147	9	4	39	..	2,197
XV. Miscellaneous Products ..	48,340	43,686	1,179	2,356	1,528	677	97,766
Total, Classes I. to XV.	4,728,205	3,198,682	1,149,811	620,106	399,218	342,163	10,438,185
XVI. Heat, Light and Power ..	824,804	141,076	194,048	25,251	118,223	59,294	1,362,696
Grand Total	5,553,009	3,339,758	1,343,859	645,357	517,441	401,457	11,800,881

§ 9. Individual Industries.

1. General.—The preceding pages afford a general view of the magnitude of industries in the sixteen groups adopted by the Conference of Statisticians in 1930. While it is not possible, within the limits of this work, to give a detailed account in respect of all industries, particular industries are dealt with hereunder which are of special importance by reason of the employment which they provide for labour and capital or other features of special interest. Where there are only one or two establishments of a particular industry in any State, returns of output are not published, but are combined with some other factory group so that the operations of individual concerns will not be disclosed.

2. **Cement and Cement Goods.**—(i) *Details for each State, 1939-40.* The manufacture of cement and cement goods is the most important industry included in Class I. and details for each State during 1939-40 are given in the following table :—

CEMENT AND CEMENT GOODS, 1939-40.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories ..	40	42	16	12	16	6	132
Number of persons engaged ..	1,183	1,310	500	263	333	177	3,766
Value of land and buildings ..	£ 611,169	329,788	158,284	71,629	36,977	112,464	1,320,311
Value of plant and machinery ..	£ 1,055,500	702,176	202,293	228,666	102,335	96,431	2,387,391
Wages paid ..	£ 286,012	288,813	119,088	63,124	73,167	34,245	864,449
Value of fuel used ..	£ 203,115	137,693	65,607	44,334	78,362	44,332	573,443
Value of materials used ..	£ 444,835	494,088	248,811	98,352	115,786	84,524	1,486,396
Total value of output ..	£ 1,538,624	1,356,614	577,965	284,880	375,496	284,471	4,418,050
Value of production ..	£ 899,674	724,833	263,547	142,194	181,348	155,615	2,358,211

(ii) *Total for Australia, 1935-36 to 1939-40.* The next table gives particulars for the last five years for Australia :—

CEMENT AND CEMENT GOODS : AUSTRALIA.

Items.	1935-36.	1936-37.	1937-38.	1938-39.	1939-40.
Number of factories ..	101	108	125	132	132
Number of persons engaged ..	2,698	3,214	3,832	3,932	3,766
Value of land and buildings ..	£ 1,272,985	1,347,741	1,346,013	1,350,175	1,320,311
Value of plant and machinery ..	£ 2,134,478	2,260,667	2,308,148	2,515,814	2,387,391
Wages paid ..	£ 569,092	676,738	863,016	897,426	864,449
Value of fuel used ..	£ 423,948	502,307	573,427	561,578	573,443
Value of materials used ..	£ 949,629	1,170,877	1,429,104	1,542,067	1,486,396
Total value of output ..	£ 3,201,407	3,660,862	4,313,449	4,488,891	4,418,050
Value of production ..	£ 1,827,830	1,987,678	2,310,918	2,385,246	2,358,211
Cement, portland grey, produced ..	ton 645,234	720,093	851,914	867,849	864,917
	£ 2,389,899	2,566,740	2,991,927	3,023,707	2,931,394

3. **Chemicals, Drugs and Medicines.**—(i) *Details for each State, 1939-40.* This industry is the most important in Class III. and details for each State during 1939-40 are shown in the following table :—

CHEMICALS, DRUGS AND MEDICINES, 1939-40.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories ..	138	65	12	13	11	4	243
Number of persons engaged ..	2,943	1,932	190	401	194	38	5,698
Value of land and buildings ..	£ 1,128,406	576,577	61,839	374,407	50,942	20,389	2,212,560
Value of plant and machinery ..	£ 632,352	363,624	35,075	690,778	154,126	12,576	1,888,531
Wages paid ..	£ 584,463	374,952	35,672	70,885	40,974	5,294	1,112,240
Value of fuel used ..	£ 74,418	40,198	3,809	18,762	10,905	661	148,753
Value of materials used ..	£ 2,275,248	1,188,634	120,334	241,589	79,014	17,724	3,922,543
Total value of output ..	£ 5,044,436	2,472,169	226,247	406,738	215,396	33,042	8,398,028
Value of production ..	£ 2,694,770	1,243,337	102,104	146,387	125,477	14,657	4,326,732

(ii) *Total for Australia, 1935-36 to 1939-40.* In the returns for Australia shown in the following table it will be seen that the industry has made consistent progress during each of the last five years :—

CHEMICALS, DRUGS AND MEDICINES : AUSTRALIA.

Items.	1935-36.	1936-37.	1937-38.	1938-39.	1939-40.
Number of factories ..	214	225	228	238	243
Number of persons engaged ..	4,619	4,928	5,210	5,346	5,698
Value of land and buildings ..	£ 1,556,254	1,627,073	1,677,485	1,817,727	2,212,560
Value of plant and machinery ..	£ 986,700	1,080,969	1,119,602	1,253,577	1,888,531
Wages paid ..	£ 786,211	849,254	955,677	1,011,906	1,112,240
Value of fuel used ..	£ 99,376	107,240	119,880	121,503	148,753
Value of materials used ..	£ 2,751,056	2,948,550	3,219,896	3,403,680	3,922,543
Total value of output ..	£ 5,723,675	6,362,843	6,873,053	7,351,745	8,398,028
Value of production ..	£ 2,873,243	3,307,053	3,533,277	3,826,562	4,326,732

4. White Lead, Paints and Varnish.—(i) *Details for each State, 1939-40.* The following table shows particulars of this industry for each State during 1939-40 :—

WHITE LEAD, PAINTS AND VARNISH FACTORIES, 1939-40.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	49	42	4	8	2	..	105
Number of Persons engaged ..	1,758	391	39	170	9	..	2,367
Value of land and buildings ..	£ 576,072	144,114	5,706	66,214	2,710	..	794,816
Value of plant and machinery ..	£ 216,606	51,416	3,279	43,402	2,171	..	316,874
Wages paid ..	£ 445,125	78,916	8,521	35,192	1,793	..	569,517
Value of fuel used ..	£ 38,985	6,923	1,093	2,357	114	..	49,472
Value of materials used ..	£ 2,161,241	339,823	47,234	159,452	10,793	..	2,718,543
Total value of output ..	£ 3,415,557	566,192	62,192	242,969	16,922	..	4,303,832
Value of production ..	£ 1,215,331	219,446	13,865	81,160	6,015	..	1,535,817

(ii) *Total for Australia, 1935-36 to 1939-40.* The next table gives particulars for the last five years for Australia :—

WHITE LEAD, PAINTS AND VARNISH FACTORIES : AUSTRALIA.

Items.	1935-36.	1936-37.	1937-38.	1938-39.	1939-40.
Number of factories ..	83	90	98	102	105
Number of persons engaged ..	1,774	1,987	2,166	2,271	2,367
Value of land and buildings ..	£ 611,386	637,535	709,515	761,345	794,816
Value of plant and machinery ..	£ 277,019	320,543	306,759	324,222	316,874
Wages paid ..	£ 360,683	412,495	487,869	535,014	569,547
Value of fuel used ..	£ 36,346	42,054	44,513	44,992	49,472
Value of materials used ..	£ 1,826,194	2,099,415	2,391,785	2,275,027	2,718,543
Total value of output ..	£ 3,126,126	3,539,735	4,000,344	3,905,104	4,303,832
Value of production ..	£ 1,263,586	1,398,266	1,564,046	1,585,085	1,535,817

5. Soap and Candle Factories.—(i) *Details for each State, 1939-40.* The manufacture of these products is frequently carried on in the same factory, so that separate returns cannot be obtained. The following table gives particulars of soap and candle factories in each State for 1939-40 :—

SOAP AND CANDLE FACTORIES, 1939-40.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W.A.	Tas.	Australia.
Number of factories ..	32	16	10	5	3	2	68
Number of persons engaged ..	1,539	713	199	184	61	26	2,722
Value of land and buildings ..	£ 361,174	207,550	35,711	58,106	(a)	(a)	(b) 686,821
Value of plant and machinery ..	£ 255,537	242,964	24,391	40,388	(a)	(a)	(b) 582,786
Wages paid ..	£ 304,496	139,712	40,639	33,845	(a)	(a)	(b) 535,578
Value of fuel used ..	£ 33,461	43,634	4,408	3,197	(a)	(a)	(b) 87,094
Value of materials used ..	£ 950,170	577,161	110,061	79,581	(a)	(a)	(b) 1,792,039
Total value of output ..	£ 2,071,515	1,398,010	213,236	161,149	(a)	(a)	(b) 3,965,660
Value of production ..	£ 1,087,884	777,215	98,767	78,371	(a)	(a)	(b) 2,086,527

(a) Particulars not available for publication.

(b) Including Western Australia and Tasmania.

(ii) *Total for Australia, 1935-36 to 1939-40.* The next table gives similar particulars for the last five years for Australia :—

SOAP AND CANDLE FACTORIES : AUSTRALIA.

Items.	1935-36.	1936-37.	1937-38.	1938-39.	1939-40.
Number of factories ..	66	66	65	65	68
Number of persons engaged ..	2,183	2,379	2,534	2,620	2,722
Value of land and buildings ..	£ 613,717	624,162	649,362	665,546	686,821
Value of plant and machinery ..	£ 514,845	484,225	556,427	576,732	582,786
Wages paid ..	£ 385,431	441,857	478,065	501,174	535,578
Value of fuel used ..	£ 76,340	63,368	72,670	76,283	87,094
Value of materials used ..	£ 1,689,835	1,858,810	1,787,068	1,567,999	1,792,039
Total value of output ..	£ 3,107,553	3,551,887	3,627,830	3,529,723	3,965,660
Value of Production ..	£ 1,341,378	1,629,709	1,768,092	1,885,441	2,086,527

(iii) *Raw Material Used and Production, 1935-36 to 1939-40.* The following statement shows the quantities of certain raw material used and the production in soap and candle factories in Australia for the last five years :—

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

Particulars.	1935-36.	1936-37.	1937-38.	1938-39.	1939-40.
Tallow used cwt.	491,423	518,604	511,302	535,511	603,014
Alkali used "	288,461	227,028	218,171	229,881	251,232
Coco-nut oil used, refined "	125,548	124,236	137,134	138,954	142,839
and unrefined "	954,082	986,578	952,507	986,087	1,051,618
Soap made "	39,937	37,991	26,964	27,459	26,972
Candles made "					

The output for the year 1939-40 comprised the following quantities of soap :— household, 757,686 cwt. ; toilet, 160,820 cwt. ; sand, 84,698 cwt. ; soft, 19,191 cwt. ; and woolscouring, 29,223 cwt. This excludes 2,539 cwt. of soap made in establishments not classified as Soap and Candle Factories.

6. **Chemical Fertilizers.**—(i) *Details for each State, 1939-40.* The following table gives particulars of the factories engaged in the manufacture of chemical fertilizers in each State during 1939-40. Details of the consumption, imports and exports of fertilizers will be found in Chapter XVII. "Agricultural Production".

CHEMICAL FERTILIZERS, 1939-40.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	5	7	6	6	5	7	36
Number of persons engaged ..	233	994	97	653	380	35	2,392
Value of land and buildings £	111,662	546,577	58,308	271,881	495,028	45,763	1,529,219
Value of plant and machinery £	142,759	856,109	62,611	662,528	637,142	25,794	2,386,943
Wages paid ..	£ 65,225	246,325	23,362	155,187	106,370	7,764	604,233
Value of fuel used ..	£ 16,283	46,707	1,408	22,251	20,487	751	107,887
Value of materials used ..	£ 398,758	1,060,055	292,335	527,798	749,709	95,109	3,123,764
Total value of output ..	£ 628,944	1,663,523	369,464	829,746	1,040,289	120,318	4,652,284
Value of production ..	£ 213,903	556,761	75,721	279,697	270,093	24,458	1,420,633

(ii) *Total for Australia, 1935-36 to 1939-40.* The development of this industry since 1935-36 is set out hereunder :—

CHEMICAL FERTILIZERS : AUSTRALIA.

Items.	1935-36.	1936-37.	1937-38.	1938-39.	1939-40.
Number of factories	33	34	32	36	36
Number of persons engaged	1,996	2,214	2,474	2,540	2,392
Value of land and buildings	£ 1,378,636	1,368,075	1,424,055	1,449,157	1,529,219
Value of plant and machinery	£ 2,127,113	2,145,237	2,214,575	2,352,819	2,386,943
Wages paid	£ 442,052	493,345	599,947	601,477	604,233
Value of fuel used	£ 88,676	94,340	108,587	113,749	107,887
Value of materials used	£ 2,726,551	2,873,015	3,239,322	3,231,053	3,123,764
Total value of output	£ 3,906,041	4,375,565	4,904,383	4,944,800	4,652,284
Value of production	£ 1,090,814	1,408,210	1,556,474	1,599,998	1,420,633

7. **Smelting, Converting, Refining and Rolling of Iron and Steel.**—The extension of the classification referred to in § 1 par. 2 above has made possible the separate publication of details for the group of industries comprised herein. This grouping

includes ironworks, foundries, the making of iron safes and doors, steel castings, iron bedsteads, sash weights, steel window frames and sashes, nuts and bolts, springs, horse-shoes, screws, lifts, tools, brickmakers' implements and oxy-acetylene welding. Particulars for the year 1938-39 are as follows :—

SMELTING, CONVERTING, REFINING AND ROLLING OF IRON AND STEEL, 1938-39.

Items.	N.S.W.	Victoria.	Q'land. (a)	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	170	161	..	31	1	..	363
Number of persons engaged ..	13,253	4,366	..	1,622	111	..	19,352
Value of land and buildings £	2,777,705	622,355	..	(b)	(b)	..	c 3,532,471
Value of plant and machinery £	7,945,771	555,971	..	(b)	(b)	..	c 8,611,122
Wages paid ..	3,553,180	878,739	..	(b)	(b)	..	c 4,740,444
Value of fuel used ..	2,142,229	134,947	..	(b)	(b)	..	c 2,318,248
Value of materials used £	15,048,009	1,105,270	..	(b)	(b)	..	c16,502,532
Total value of output £	25,571,297	2,682,921	..	(b)	(b)	..	c29,075,039
Value of production ..	8,381,059	1,442,704	..	(b)	(b)	..	c10,254,259

(a) Now included with Engineering.

(b) Particulars not available for publication.

(c) Including South Australia and Western Australia.

NOTE.—Later particulars are not available for publication.

8. Engineering Works.—Formerly, it was impossible to show separate details for the engineering industry owing to the different classifications among the States, but since 1926-27 substantial uniformity has been attained.

The classification of establishments included in the Industrial Metal Group still presents some difficulty. This arises from the fact that some establishments are engaged in two or more distinct types of industrial activity. In such cases factory proprietors are asked to furnish separate returns for each activity, but this is not always practicable and consequently there is no alternative but to classify such factories according to their predominant activity. This difficulty is most acute in engineering works, but the following figures may be accepted as reasonably representative of the engineering industry, excluding the marine and electrical branches :—

ENGINEERING WORKS,(a) 1939-40.

Items.	N.S.W.	Victoria.	Q'land. (b)	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	373	395	118	85	150	20	1,141
Number of persons engaged ..	10,417	10,085	2,757	2,049	1,650	286	27,244
Value of land and buildings £	1,590,851	1,623,464	359,739	185,173	329,040	48,556	4,136,823
Value of plant and machinery ..	£ 1,515,053	1,632,491	321,042	218,322	258,219	37,856	3,982,983
Wages paid ..	£ 2,412,714	2,316,189	588,995	367,427	377,613	60,482	6,123,420
Value of fuel used £	110,872	106,117	39,782	26,814	25,608	3,780	313,063
Value of materials used £	3,289,314	3,249,474	728,886	438,386	436,606	45,737	8,188,403
Total value of putput £	7,188,153	7,157,802	1,627,691	1,036,709	1,048,974	131,370	18,190,699
Value of production £	3,787,967	3,802,211	859,023	571,509	586,670	81,853	9,689,233

(a) Excluding marine and electrical.

(b) Including establishments previously included with smelting, converting, refining and rolling iron and steel.

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

9. **Extracting and Refining of Non-ferrous Metals and Alloys.**—The following table gives particulars of metal extraction and ore reduction works, other than those connected with iron and steel. The returns do not include particulars of plants used on mines :—

EXTRACTING AND REFINING OF NON-FERROUS METALS AND ALLOYS, 1938-39.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.A. (a)	Tas.	Australia.
Number of factories ..	10	7	18	2	1	4	42
Number of persons engaged ..	1,071	62	1,152	1,197	69	1,981	5,532
Value of land and buildings £	222,188	22,646	298,352	(b)	(b)	482,544	(c) 1,177,348
Value of plant and machinery ..	£ 963,400	5,863	857,875	(b)	(b)	1,091,212	(c) 3,525,659
Wages paid ..	£ 313,143	15,389	351,873	(b)	(b)	528,167	(c) 1,613,107
Value of fuel used ..	£ 202,009	3,177	88,930	(b)	(b)	197,398	(c) 597,951
Value of materials used ..	£ 9,793,124	162,405	1,657,494	(b)	(b)	1,237,475	(c) 16,844,310
Total value of output ..	£ 11,261,700	194,697	2,568,692	(b)	(b)	2,598,052	(c) 21,333,872
Value of production ..	£ 1,266,567	29,115	822,268	(b)	(b)	1,163,179	(c) 3,891,611

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

NOTE.—Later particulars are not available for publication.

10. **Electrical Installations, Cables and Apparatus.**—(i) *Details for each State, 1939-40.* The following table shows particulars of this industry for each State during 1939-40 :—

ELECTRICAL INSTALLATIONS, CABLES AND APPARATUS, 1939-40.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	150	131	14	29	29	9	362
Number of persons engaged ..	6,743	3,743	160	602	148	65	11,461
Value of land and buildings ..	£ 980,003	538,066	29,914	74,180	59,475	15,095	1,696,733
Value of plant and machinery ..	£ 564,476	310,388	7,902	38,729	9,447	9,754	940,696
Wages paid ..	£ 1,377,155	727,202	31,936	104,147	24,126	8,612	2,273,178
Value of fuel used ..	£ 72,181	28,756	778	7,129	1,682	299	110,825
Value of materials used ..	£ 2,116,077	995,329	25,895	250,157	25,720	9,423	3,422,601
Total value of output ..	£ 4,518,938	2,298,888	74,211	462,220	73,024	28,329	7,455,610
Value of production ..	£ 2,330,680	1,274,803	47,538	204,934	45,622	18,607	3,922,184

(ii) *Total for Australia, 1935-36 to 1939-40.*—The increased output of electrical energy in Australia within recent years, referred to in par. 39 below, caused a corresponding demand for electrical equipment. As imports declined heavily during the depression years the local industry was called upon to furnish the bulk of the new needs, and consequently a remarkable development in the manufacture of electrical goods in Australia has resulted.

ELECTRICAL INSTALLATIONS, CABLES AND APPARATUS : AUSTRALIA.

Items.	1935-36.	1936-37.	1937-38.	1938-39.	1939-40.
Number of factories ..	294	318	354	360	362
Number of persons engaged ..	8,137	9,215	11,054	10,666	11,461
Value of land and buildings ..	£ 1,245,877	1,349,212	1,570,455	1,627,183	1,696,733
Value of plant and machinery ..	£ 660,504	687,740	799,283	896,553	940,696
Wages paid ..	£ 1,325,736	1,534,415	1,915,348	2,031,098	2,273,178
Value of fuel used ..	£ 73,780	85,782	101,926	104,594	110,825
Value of materials used ..	£ 2,059,502	2,383,154	3,101,308	3,195,032	3,422,601
Total value of output ..	£ 4,329,150	5,085,776	6,494,421	6,954,498	7,455,610
Value of production ..	£ 2,195,868	2,614,840	3,291,187	3,654,872	3,922,184

11. **Railway and Tramway Workshops.**—(i) *Details for each State, 1939-40.* The railway and tramway workshops which form an important item in Class IV. are chiefly State-owned institutions and their development is reflected by the growth of the railway

and tramway systems of Australia. The following table includes, in addition, municipal establishments for manufacturing and repairing rolling stock. Private institutions numbering 9 in 1939-40 have been excluded :—

TRAMCARS, RAILWAY ROLLING STOCK AND CARRIAGES, ETC. (a), 1939-40.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia
Number of factories ..	36	25	11	15	21	7	115
Number of persons engaged ..	11,526	5,816	3,828	3,311	2,033	506	27,020
Value of land and buildings £	3,031,897	1,513,211	538,181	936,217	479,564	94,921	6,593,991
Value of plant and machinery ..	£ 2,547,946	£ 1,142,015	£ 415,796	£ 827,770	£ 397,830	£ 51,108	£ 5,382,465
Wages paid ..	£ 2,836,019	£ 1,478,938	£ 1,017,452	£ 797,041	£ 492,379	£ 122,774	£ 6,744,603
Value of fuel used ..	£ 92,403	£ 52,946	£ 28,508	£ 33,610	£ 22,381	£ 5,789	£ 235,637
Value of materials used ..	£ 2,250,698	£ 1,178,257	£ 643,929	£ 528,511	£ 291,153	£ 23,043	£ 4,915,591
Total value of output ..	£ 5,697,015	£ 3,013,439	£ 1,881,912	£ 1,494,529	£ 973,856	£ 166,767	£ 13,227,518
Value of production ..	£ 3,353,914	£ 1,782,236	£ 1,209,475	£ 932,408	£ 660,322	£ 137,935	£ 8,076,290

(a) Government and Municipal only.

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

(ii) *Total for Australia, 1935-36 to 1939-40.* The following table shows the development of railway and tramway workshops in Australia since 1935-36 :—

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

Items.	1935-36.	1936-37.	1937-38.	1938-39.	1939-40.
Number of factories ..	115	117	116	117	115
Number of persons engaged ..	25,678	26,649	27,207	27,310	27,020
Value of land and buildings ..	£ 6,436,465	£ 6,533,264	£ 6,552,522	£ 6,736,924	£ 6,593,991
Value of plant and machinery ..	£ 5,041,663	£ 5,058,723	£ 5,109,599	£ 5,390,179	£ 5,382,465
Wages paid ..	£ 5,585,710	£ 5,967,787	£ 6,525,372	£ 6,720,990	£ 6,744,603
Value of fuel used ..	£ 236,560	£ 233,560	£ 226,493	£ 226,108	£ 235,637
Value of materials used ..	£ 4,444,903	£ 4,717,251	£ 5,032,992	£ 4,976,353	£ 4,915,591
Total value of output ..	£ 11,455,618	£ 12,002,439	£ 13,029,225	£ 13,223,114	£ 13,227,518
Value of production ..	£ 6,774,155	£ 7,051,628	£ 7,769,740	£ 8,020,653	£ 8,076,290

(a) Government and Municipal only.

12. Motor Vehicles and Cycles.—The industries catering for the motor trade are included in Class IV. "Industrial Metals, Machines, Implements and Conveyances". Returns in regard to assembling and repairing are shown hereunder for 1939-40 :—

ASSEMBLING AND REPAIRING OF MOTOR VEHICLES AND CYCLES, 1939-40.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories ..	1,235	977	362	227	343	123	3,267
Number of persons engaged ..	8,429	6,819	2,680	1,777	1,535	796	22,036
Value of land and buildings ..	£ 3,155,675	£ 1,990,747	£ 641,677	£ 543,191	£ 575,885	£ 254,296	£ 7,161,471
Value of plant and machinery ..	£ 645,533	£ 471,732	£ 169,568	£ 117,826	£ 126,301	£ 48,023	£ 1,578,983
Wages paid ..	£ 1,537,250	£ 1,384,222	£ 500,848	£ 299,913	£ 279,553	£ 118,182	£ 4,119,968
Value of fuel used ..	£ 81,799	£ 66,812	£ 22,867	£ 14,541	£ 17,678	£ 3,885	£ 207,582
Value of materials used ..	£ 1,531,145	£ 1,187,032	£ 485,295	£ 268,176	£ 327,774	£ 111,525	£ 3,910,947
Total value of output ..	£ 4,214,544	£ 3,366,945	£ 1,405,182	£ 732,615	£ 892,125	£ 297,245	£ 10,908,656
Value of production ..	£ 2,601,600	£ 2,113,101	£ 897,020	£ 449,898	£ 546,673	£ 181,835	£ 6,790,127

Particulars in regard to motor body building for 1939-40 are as follows :—

• **MOTOR BODY BUILDING, 1939-40.**

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W.Aust.	Tas. (a)	Australia.
Number of factories ..	51	91	37	12	11	18	220
Number of persons engaged ..	1,395	3,005	566	5,172	171	156	10,465
Value of land and buildings £	332,551	644,852	81,293	300,478	42,763	49,107	1,451,044
Value of plant and machinery £	84,391	260,188	26,260	216,051	13,442	3,602	603,934
Wages paid ..	£ 303,787	£ 680,867	£ 98,445	£ 1,194,169	£ 33,141	£ 25,686	£ 2,336,095
Value of fuel used ..	£ 8,225	£ 18,221	£ 2,966	£ 38,981	£ 1,393	£ 454	£ 70,240
Value of materials used ..	£ 309,704	£ 1,222,446	£ 106,623	£ 1,435,780	£ 36,249	£ 20,188	£ 3,130,990
Total value of output ..	£ 770,537	£ 2,413,362	£ 244,016	£ 3,173,804	£ 82,204	£ 57,497	£ 6,741,420
Value of production ..	£ 452,608	£ 1,172,695	£ 134,427	£ 1,699,043	£ 44,562	£ 36,855	£ 3,540,190

(a) Including horse-drawn vehicles.

The output of motor bodies together with the number imported into Australia for selected years are shown in the next table :—

MOTOR BODIES : PRODUCTION AND IMPORTS, AUSTRALIA.

Items.	1926-27.	1928-29.	1931-32.	1937-38.	1938-39.	1939-40.
Motor Bodies—						
Number made ..	No. 88,876	72,193	6,323	92,245	79,436	71,487
Value ..	£ 4,830,014	£ 4,357,841	£ 450,519	£ 7,411,177	£ 6,421,142	£ 5,583,316
Number imported ..	No. 12,843	14,546	61	646	532	345
Value ..	£ 1,413,203	£ 1,471,878	£ 7,360	£ 63,810	£ 56,641	£ 27,315

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

(ii) *Details for States, 1939-40.* The following table gives details respecting agricultural implement works in each State for 1939-40 :—

AGRICULTURAL IMPLEMENT WORKS, 1939-40.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	34	79	9	37	9	..	168
Number of persons engaged ..	1,103	3,781	545	887	63	..	6,379
Value of land and buildings ..	£ 187,243	£ 613,775	£ 27,715	£ 155,323	£ 50,116	..	£ 1,034,172
Value of plant and machinery ..	£ 107,575	£ 563,275	£ 62,542	£ 185,275	£ 2,033	..	£ 920,700
Wages paid ..	£ 231,247	£ 888,761	£ 105,301	£ 153,603	£ 14,493	..	£ 1,393,405
Value of fuel used ..	£ 9,879	£ 60,155	£ 9,393	£ 11,460	£ 599	..	£ 91,486
Value of materials used ..	£ 307,875	£ 945,407	£ 89,203	£ 177,238	£ 3,012	..	£ 1,522,735
Total value of output ..	£ 634,579	£ 2,142,634	£ 244,428	£ 373,012	£ 25,048	..	£ 3,419,701
Value of production ..	£ 316,825	£ 1,137,072	£ 145,832	£ 184,314	£ 21,437	..	£ 1,805,480

(iii) *Total for Australia, 1935-36 to 1939-40.* The fall in world prices of agricultural products resulted in a considerable slackening in employment and output in agricultural implement works during the years 1929-30 to 1934-35. With the subsequent improve-

ment in prices the industry expanded considerably, but the decline recorded during 1938-39 and 1939-40 reflects another fall in world prices of agricultural products and the disruption caused by the War. Details for each of the last five years are as follows :—

AGRICULTURAL IMPLEMENT WORKS : AUSTRALIA.

Items.	1935-36.	1936-37.	1937-38.	1938-39.	1939-40.
Number of factories	143	148	160	161	168
Number of persons engaged	5,053	6,253	7,756	6,563	6,379
Value of land and buildings	£ 608,679	£ 689,612	£ 804,116	£ 996,949	£ 1,034,172
Value of plant and machinery	£ 600,915	£ 683,512	£ 729,771	£ 910,520	£ 920,700
Wages paid	£ 936,359	£ 1,232,838	£ 1,629,771	£ 1,373,213	£ 1,393,402
Value of fuel used	£ 66,518	£ 85,229	£ 105,175	£ 81,736	£ 91,486
Value of materials used	£ 1,121,479	£ 1,457,599	£ 1,904,156	£ 1,485,618	£ 1,522,735
Total value of output	£ 2,528,038	£ 3,150,732	£ 4,225,658	£ 3,403,091	£ 3,419,701
Value of production	£ 1,340,092	£ 1,607,904	£ 2,216,327	£ 1,836,337	£ 1,805,480

14. **Wireless Apparatus.**—The introduction of wireless broadcasting in 1923 gave rise to a new industry in Australia. Early statistical details of the industry are not available as they were grouped together with other electrical apparatus. In 1930-31, a new classification of factories was adopted and "Wireless Apparatus" was shown as a separate industry. The industry is confined, almost entirely, to New South Wales and Victoria. The number of broadcast listeners' licences has increased from 331,128 in 1930-31 to 1,212,259 in 1939-40, and this increase is reflected in the advancement of the industry during that period, with the exception of the last two years during which the industry has remained stationary.

WIRELESS APPARATUS : AUSTRALIA.

Items.	1935-36.	1936-37.	1937-38.	1938-39.	1939-40.
Number of factories	67	67	73	72	73
Number of persons engaged	3,943	4,613	5,519	4,828	4,860
Value of land and buildings	£ 378,103	£ 468,164	£ 549,254	£ 557,953	£ 598,092
Value of plant and machinery	£ 185,626	£ 261,341	£ 315,325	£ 305,468	£ 352,103
Wages paid	£ 493,314	£ 610,291	£ 791,907	£ 754,302	£ 785,388
Value of fuel used	£ 17,670	£ 21,354	£ 24,022	£ 23,525	£ 26,274
Value of materials used	£ 1,398,137	£ 1,590,978	£ 1,949,286	£ 1,355,683	£ 1,546,895
Total value of output	£ 2,443,159	£ 2,640,206	£ 3,247,472	£ 2,502,338	£ 2,834,628
Value of production	£ 827,352	£ 1,027,874	£ 1,274,164	£ 1,123,130	£ 1,261,459

The number of domestic receiving sets assembled in 1939-40 was 169,244, and the number of domestic chassis made was 126,027.

15. **Cotton.**—(i) *General.* Cotton has been grown in Australia since 1860, but never on a very large scale. The quantity of unginned cotton produced during the decennium ended 1938 varied between 6 million lb. in 1932 and 27 million lb. in 1934, and averaged 16 million lb. per annum. Arising out of the development in the local manufacture of cotton materials and the further expansion consequent upon the war in 1939, plans have been completed for an extension of the area devoted to the cultivation of this crop. The growing of cotton is restricted to Queensland and is referred to in some detail in Chapter XVII. "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 this 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 or are being established in addition to those already operating. When these are in full production, Australia will be 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 treating cotton in Australia during 1939-40 was 42, the number of persons engaged 4,337, and the value of the output £3,545,538.

16. *Woollen and Tweed Mills.*—(i) *Details for each State, 1939-40.* The manufacture of woollens and tweeds was established at an early period in Australian history and was under Government control, the first record in New South Wales dating back to 1801, when a few blankets were made by convicts, while manufacture in Victoria dates from 1867. The following table gives particulars for 1939-40 :—

WOOLLEN AND TWEED (INCLUDING WOOLSCOURING) MILLS, 1939-40.

Items.	N.S.W. (a)	Victoria.	Q'land. (a)	S. Aust. (b)	W.A. (a)	Tas.	Australia.
Number of factories ..	24	56	3	9	1	3	96
Number of persons engaged ..	7,490	11,039	622	1,106	139	1,643	22,041
Value of land and buildings ..	£ 761,443	£ 1,314,754	£ 36,365	£ 121,497	£ 23,593	£ 227,129	£ 2,484,781
Value of plant and machinery ..	£ 1,204,267	£ 1,722,679	£ 87,861	£ 188,154	£ 52,840	£ 204,713	£ 3,460,522
Wages paid ..	£ 1,075,503	£ 1,790,966	£ 86,350	£ 186,678	£ 21,874	£ 251,338	£ 3,412,709
Value of fuel used ..	£ 137,730	£ 257,448	£ 9,794	£ 33,061	£ 3,800	£ 24,324	£ 466,247
Value of materials used ..	£ 3,035,882	£ 4,425,224	£ 138,938	£ 781,596	£ 38,158	£ 619,483	£ 9,039,281
Total value of output ..	£ 5,040,780	£ 7,955,722	£ 289,329	£ 1,120,252	£ 81,044	£ 1,279,803	£ 15,766,930
Value of production ..	£ 1,867,168	£ 3,273,050	£ 140,597	£ 305,595	£ 38,996	£ 635,996	£ 6,261,402

(a) Excludes Woolscouring.

(b) Includes Fellmongery.

(ii) *Total for Australia, 1935-36 to 1939-40.* The extent of the woollen and tweed milling industry in Australia in the last five years is shown in the following table :—

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

Items.	1935-36.	1936-37.	1937-38.	1938-39.	1939-40.
Number of factories ..	94	90	87	90	96
Number of persons engaged ..	19,693	19,239	19,103	19,608	22,041
Value of land and buildings ..	£ 2,455,141	£ 2,412,499	£ 2,435,114	£ 2,380,009	£ 2,484,781
Value of plant and machinery ..	£ 3,343,968	£ 3,474,275	£ 3,416,233	£ 3,369,517	£ 3,460,522
Wages paid ..	£ 2,612,723	£ 2,514,293	£ 2,741,729	£ 2,887,907	£ 3,412,709
Value of fuel used ..	£ 393,775	£ 357,777	£ 379,380	£ 392,537	£ 466,247
Value of materials used ..	£ 7,548,122	£ 7,734,520	£ 8,046,352	£ 7,331,117	£ 9,039,281
Total value of output ..	£ 12,545,067	£ 12,283,298	£ 12,618,132	£ 12,514,610	£ 15,766,930
Value of production ..	£ 4,603,170	£ 4,191,001	£ 4,192,400	£ 4,790,956	£ 6,261,402

(a) Excluding Woolscouring in New South Wales but including Fellmongery in South Australia.

(iii) *Quantity and Value of Production.* The production consists chiefly of tweed cloths, flannels, rugs, blankets and yarn, all of which have acquired a reputation for purity and durability. Detailed particulars for the several States are not available for publication. The total quantity of tweed and cloth manufactured in Australia in 1939-40 was 31,440,135 square yards in woollen mills and 632,347 square yards in other works. In New South Wales 13,510,161 square yards and in Victoria 15,476,062 square yards of tweed and cloth were manufactured in woollen mills. The production of flannel amounted to 4,642,149 square yards, while blankets, shawls and rugs to the number of 2,092,886 were made.

17. **Hosiery and Other Knitted Goods.**—(i) *Details for each State, 1939-40.* In addition to the woollen and tweed factories, there were 323 hosiery and knitting mills operating in Australia during 1939-40. The total number of persons engaged in these establishments was 19,073 of whom 13,395 were females. Details for each State are shown hereunder :—

HOSIERY AND OTHER KNITTED GOODS, 1939-40.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	78	231	1	7	3	3	323
Number of persons engaged ..	5,406	13,296	116	78	91	86	19,073
Value of land and buildings ..	£ 691,203	£ 1,250,498	(a)	(a)	8,084	12,340	b 1,980,550
Value of plant and machinery ..	£ 602,963	£ 1,162,954	(a)	(a)	7,184	14,181	b 1,800,451
Wages paid ..	£ 739,573	£ 1,841,134	(a)	(a)	9,606	8,891	b 2,620,190
Value of fuel used ..	£ 36,680	£ 110,677	(a)	(a)	600	895	b 149,706
Value of materials used ..	£ 1,851,393	£ 3,551,152	(a)	(a)	25,805	21,739	b 5,499,891
Total value of output ..	£ 3,142,873	£ 6,851,475	(a)	(a)	45,094	37,376	b 10,161,729
Value of production ..	£ 1,254,800	£ 3,189,646	(a)	(a)	18,689	14,742	b 4,512,132

(a) Particulars not available for publication.

(b) Including Queensland and South Australia.

(ii) *Total for Australia, 1935-36 to 1939-40.* Comparative statistics for the five years are shown in the following table :—

HOSIERY AND OTHER KNITTED GOODS : AUSTRALIA.

Items.	1935-36.	1936-37.	1937-38.	1938-39.	1939-40.
Number of factories ..	314	297	306	313	323
Number of persons engaged ..	15,692	16,932	18,230	18,159	19,073
Value of land and buildings ..	£ 1,791,583	£ 1,842,228	£ 1,861,884	£ 1,962,336	£ 1,980,550
Value of plant and machinery ..	£ 1,711,536	£ 1,901,624	£ 1,926,882	£ 1,930,564	£ 1,800,451
Wages paid ..	£ 1,819,265	£ 2,017,903	£ 2,319,355	£ 2,331,536	£ 2,620,190
Value of fuel used ..	£ 113,773	£ 110,334	£ 126,949	£ 133,154	£ 149,706
Value of materials used ..	£ 3,768,336	£ 3,978,863	£ 4,508,691	£ 4,284,216	£ 5,499,891
Total value of output ..	£ 7,327,363	£ 7,700,079	£ 8,534,886	£ 8,226,468	£ 10,161,729
Value of production ..	£ 3,445,254	£ 3,610,882	£ 3,899,246	£ 3,809,098	£ 4,512,132

(iii) *Raw Material used and Production, 1939-40.* The main raw materials consumed in establishments manufacturing hosiery and other knitted goods during 1939-40 consisted of woollen yarn, 6,963,229 lb.; cotton yarn, 6,378,362 lb.; silk yarn, 865,827 lb.; and artificial silk yarn, 6,503,805 lb. Production comprised 39,307,644 garments, valued at £4,883,368; 2,375,939 dozen pairs of stockings, valued at £3,175,818; and 1,847,106 dozen pairs of socks, valued at £1,337,693.

18. **Tanning, Curryng and Leather Dressing.**—(i) *Details for each State, 1939-40.* 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, 1939-40.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W.A.	Tas.	Aust.
Number of factories ..	62	40	14	9	6	1	132
Number of persons engaged ..	1,792	2,182	393	93	100	6	4,566
Value of land and buildings ..	£ 333,640	£ 411,915	£ 34,533	(a)	37,084	(a)	b 839,251
Value of plant and machinery ..	£ 228,624	£ 237,601	£ 36,054	(a)	24,989	(a)	b 538,801
Wages paid ..	£ 390,336	£ 464,061	£ 81,058	(a)	20,776	(a)	b 973,640
Value of fuel used ..	£ 35,622	£ 51,123	£ 6,504	(a)	1,619	(a)	b 96,219
Value of materials used ..	£ 1,685,240	£ 1,679,535	£ 380,341	(a)	108,580	(a)	b 3,909,992
Total value of output ..	£ 2,430,287	£ 2,581,623	£ 529,514	(a)	163,819	(a)	b 5,788,732
Value of production ..	£ 709,425	£ 850,965	£ 142,669	(a)	53,620	(a)	b 1,782,521

(a) Particulars not available for publication.

(b) Including South Australia and Tasmania.

(ii) *Total for Australia, 1935-36 to 1939-40.* The development of the tanning industry during the years stated is shown in the following table :—

TANNING, CURRYING AND LEATHER DRESSING : AUSTRALIA.

Items.	1935-36.	1936-37.	1937-38.	1938-39.	1939-40.
Number of factories	135	132	131	132	132
Number of persons engaged	4,433	4,467	4,400	4,375	4,566
Value of land and buildings	£ 748,897	785,191	812,051	813,713	839,251
Value of plant and machinery	£ 513,872	504,296	524,125	523,538	538,801
Wages paid	£ 810,742	858,610	911,835	919,781	973,640
Value of fuel used	£ 84,682	85,330	89,699	87,670	96,219
Value of materials used	£ 3,099,679	3,478,457	3,502,252	2,983,041	3,909,992
Total value of output	£ 4,632,662	5,091,033	5,064,188	4,592,642	5,788,732
Value of production	£ 1,448,301	1,527,246	1,472,237	1,521,931	1,782,521

(iii) *Raw Material Used and Production, 1939-40.* The quantities of raw material used and leather produced in tanneries in each State are shown in the following table. Some leather is also produced in works other than tanneries, but this is excluded :—

TANNERIES : RAW MATERIAL USED AND PRODUCTION, 1939-40.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Hides No.	680,267	881,031	203,313	(a)	63,153	(a)	1,870,051
Skins—							
Calf	742,983	486,110	160,519	2,089	158	..	1,391,859
Goat	934,101	190,371	(a)	430	(a)	..	1,128,237
Sheep	1,833,789	238,800	..	1,458	..	..	2,074,047
Marsupial	8,974	48,660	31,480	3,497	1,771	..	94,382
Reptile	(a)	(a)	(a)	..	..	..	(a)
Felts treated	1,575,891	(a)	(a)	..	..	..	2,252,433
Bark used—							
Wattle tons	8,698	7,963	2,488	396	(a)	(a)	19,824
Other	388	3,255	..	(a)	561	(a)	4,214
Tanning extract used .. lb.	4,669,285	2,589,650	1,339,574	(a)	1,079,349	(a)	9,712,232
Leather made—							
Sole and Belting ..	12,895,803	13,461,162	3,888,270	(a)	2,137,823	(a)	32,632,853
Harness	392,053	291,928	498,528	104,150	35,634	..	1,322,293
Upholstery sq. ft.	(a)	(a)	..	..	..	..	7,068,250
Dressed and Upper from Hides—							
Sold by Measure—							
Patent .. sq. ft.	1,607,522	5,956,077	..	..	..	..	7,563,599
All Other	6,267,969	8,014,882	2,923,938	847,756	(a)	(a)	18,351,912
Sold by Weight—							
Waxed Kip .. lb.	(a)	60,998	55,060	50,613	5,900	(a)	209,457
All Other	(a)	278,793	(a)	104,865	16,148	(a)	545,192
Dressed from skins—							
Calf sq. ft.	6,219,680	3,783,263	1,606,027	11,093	1,715	..	11,621,778
Goat	4,509,884	721,293	(a)	2,241	(a)	..	5,245,075
Sheep	7,919,702	(a)	(a)	..	..	..	10,598,091
Marsupial	21,979	129,171	207,833	3,947	(a)	(a)	371,145

(a) Not available for publication.

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

19. *Tailoring and Slop Clothing Factories.*—(i) *Details for each State, 1939-40.* The importance of this industry in each State is shown in the following table :—

TAILORING AND SLOP CLOTHING FACTORIES, 1939-40.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories	440	367	126	123	82	24	1,162
Number of persons engaged	12,609	8,364	3,105	1,963	976	374	27,391
Value of land and buildings	£ 1,567,233	870,006	291,601	229,973	174,277	67,967	3,201,962
Value of plant and machinery	£ 181,943	140,890	32,103	22,696	13,714	5,464	396,819
Wages paid	£ 1,547,571	1,121,969	338,964	212,188	122,128	43,046	3,385,861
Value of fuel used	£ 29,261	26,355	7,416	6,008	2,863	814	72,717
Value of materials used	£ 2,413,575	2,301,337	498,934	212,690	146,590	53,211	5,626,338
Total value of output	£ 4,718,048	3,931,818	1,073,215	528,894	338,255	118,003	10,708,233
Value of production	£ 2,275,211	1,604,126	566,865	310,196	188,802	63,978	5,009,178

(ii) *Total for Australia, 1935-36 to 1939-40.* Details for the last five years are as follows :—

TAILORING AND SLOP CLOTHING FACTORIES : AUSTRALIA.

Items.	1935-36.	1936-37.	1937-38.	1938-39.	1939-40.
Number of factories	1,157	1,263	1,172	1,177	1,162
Number of persons engaged	24,877	25,546	26,765	26,499	27,391
Value of land and buildings	£ 2,885,076	3,053,302	3,100,309	3,175,748	3,201,962
Value of plant and machinery	£ 327,333	317,812	332,814	355,503	396,819
Wages paid	£ 2,578,597	2,732,213	3,094,693	3,168,472	3,385,866
Value of fuel used	£ 58,556	61,097	66,834	72,431	72,717
Value of materials used	£ 4,826,010	4,796,324	5,123,268	4,946,519	5,626,338
Total value of output	£ 8,939,847	9,133,302	9,801,313	9,830,646	10,708,233
Value of production	£ 4,055,271	4,280,881	4,611,211	4,811,696	5,009,178

20. **Dressmaking and Millinery Establishments.**—(i) *Details for each State, 1939-40.* Particulars of dressmaking and millinery establishments are given separately in the following tables :—

DRESSMAKING ESTABLISHMENTS, 1939-40.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas. (a)	Australia.
Number of factories	104	445	38	54	40	5	686
Number of persons engaged	1,568	8,286	808	848	739	27	12,276
Value of land and buildings	£ 229,755	1,164,102	70,609	72,176	75,372	3,180	1,619,394
Value of plant and machinery	£ 11,631	107,940	11,559	9,762	6,179	181	147,252
Wages paid	£ 152,950	912,765	71,551	64,993	63,830	2,068	1,268,157
Value of fuel used	£ 1,980	17,213	1,414	1,678	1,067	33	23,385
Value of materials used	£ 125,442	1,702,517	94,468	67,477	87,130	1,172	2,078,206
Total value of output	£ 352,442	3,093,175	206,688	169,259	183,955	4,510	4,008,733
Value of production	£ 224,624	1,373,445	110,806	100,104	94,858	3,305	1,907,142

(a) Including Millinery.

MILLINERY ESTABLISHMENTS, 1939-40.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas. (a)	Australia.
Number of factories	59	60	15	13	7	..	154
Number of persons engaged	1,560	1,250	511	296	57	..	3,674
Value of land and buildings	£ 229,135	129,169	38,360	24,538	7,130	..	428,332
Value of plant and machinery	£ 16,471	14,277	6,843	2,600	1,247	..	41,438
Wages paid	£ 167,313	135,874	44,657	27,454	5,862	..	380,860
Value of fuel used	£ 4,866	3,239	830	969	123	..	10,027
Value of materials used	£ 268,171	205,504	68,111	43,004	9,439	..	594,229
Total value of output	£ 566,268	450,860	138,332	89,834	17,686	..	1,262,980
Value of production	£ 293,231	242,117	69,391	45,861	8,124	..	658,724

(a) Included in Dressmaking.

(ii) *Total for Australia, 1935-36 to 1939-40.* Particulars of dressmaking and millinery establishments in Australia for the last five years are shown in the following table :—

DRESSMAKING AND MILLINERY ESTABLISHMENTS : AUSTRALIA.

Items.	1935-36.	1936-37.	1937-38.	1938-39.	1939-40.
Number of factories	863	830	871	869	840
Number of persons engaged	15,683	15,635	16,426	16,398	15,950
Value of land and buildings	£ 1,897,903	2,031,277	2,023,371	2,051,611	2,043,726
Value of plant and machinery	£ 180,934	179,699	194,553	189,263	188,690
Wages paid	£ 1,391,348	1,441,226	1,588,231	1,652,808	1,649,017
Value of fuel used	£ 30,245	30,178	32,157	33,067	33,412
Value of materials used	£ 2,559,119	2,557,612	2,801,184	2,609,363	2,672,435
Total value of output	£ 4,869,311	4,965,634	5,302,983	5,234,727	5,271,713
Value of production	£ 2,279,947	2,377,844	2,469,642	2,592,297	2,565,866

21. **Shirts, Collars and Underclothing.**—(i) *Details for each State, 1939-40.* Particulars of this industry are shown in the following table :—

SHIRTS, COLLARS AND UNDERCLOTHING, 1939-40.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	126	96	17	28	12	..	279
Number of persons engaged ..	4,594	4,705	883	682	580	..	11,444
Value of land and buildings £	385,691	418,684	51,820	37,447	35,664	..	929,306
Value of plant and machinery £	78,492	115,582	11,516	12,144	13,375	..	231,109
Wages paid ..	475,221	553,254	78,519	53,411	56,078	..	1,216,483
Value of fuel used ..	8,806	12,891	1,636	1,398	868	..	25,599
Value of materials used £	1,437,649	1,322,358	132,960	69,979	70,023	..	3,032,969
Total value of output £	2,199,507	2,249,803	246,188	140,960	143,530	..	4,979,988
Value of production ..	753,052	914,554	111,592	69,583	72,639	..	1,921,420

(ii) *Total for Australia, 1935-36 to 1939-40.* The following table shows the progress of the industry since 1935-36 :—

SHIRTS, COLLARS AND UNDERCLOTHING : AUSTRALIA.

Items.	1935-36.	1936-37.	1937-38.	1938-39.	1939-40.
Number of factories ..	308	298	289	283	279
Number of persons engaged ..	11,214	11,116	11,134	11,081	11,444
Value of land and buildings ..	£ 842,896	871,522	910,595	945,972	929,306
Value of plant and machinery ..	£ 253,736	251,396	229,797	230,579	231,109
Wages paid ..	£ 1,001,615	1,029,221	1,096,013	1,142,855	1,216,483
Value of fuel used ..	£ 22,844	23,692	23,845	23,639	25,599
Value of materials used ..	£ 2,708,887	2,599,519	2,788,667	2,650,779	3,032,969
Total value of output ..	£ 4,311,566	4,252,677	4,522,879	4,435,209	4,979,988
Value of production ..	£ 1,579,835	1,629,466	1,710,367	1,760,791	1,921,420

22. **Boot Factories.**—(i) *Boot and Shoe Factories, 1939-40.* The boot and shoe industry holds an important place both in regard to employment afforded and extent of output. The operations of these factories have been rather obscured in recent years by the inclusion of a large number of repair establishments in the returns, but this difficulty has been overcome by the collection of separate statistics for each industry, and in the following table the details relate to boot and shoe factories as distinct from those devoted to repairing and bespoke work :—

BOOT AND SHOE FACTORIES, 1939-40.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	101	168	24	15	9	3	320
Number of persons engaged ..	5,961	10,491	896	780	396	63	18,587
Value of land and buildings £	450,607	658,803	37,598	61,823	43,896	6,000	1,258,727
Value of plant and machinery £	255,856	503,400	68,043	55,068	34,863	2,976	920,206
Wages paid ..	£ 918,185	1,701,282	131,371	110,636	57,463	8,434	2,927,371
Value of fuel used ..	£ 17,767	34,408	2,056	2,258	1,237	149	57,875
Value of materials used £	1,574,408	3,028,983	229,204	196,349	119,726	12,099	5,160,829
Total value of output £	2,900,065	5,512,542	410,415	338,792	200,914	21,872	9,384,600
Value of production ..	£ 1,307,890	2,449,151	179,095	140,185	79,951	9,624	4,165,896

(ii) *Boot Repairing, including Bespoke Work.* The introduction of small power plants in repairing shops has brought this class of establishment within the meaning of a factory for statistical purposes. Shops using small power plants have spread rapidly throughout Australia, and in 1939-40 the number amounted to 1,298 in which 2,281 persons were engaged in the industry. The sum of £161,210 was distributed in salaries and wages, and the output was valued at £856,237.

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

BOOT AND SHOE FACTORIES : OUTPUT, 1939-40.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
QUANTITY.							
Boots and shoes pairs	5,046,211	8,017,701	687,134	763,146	361,006	38,442	14,913,640
Slippers .. "	3,088,360	4,212,039	452,735	(a)	(a)	..	68,172,499
Uppers (c) .. "	14,832	5,676	(a)	(a)	218	(a)	(b) 132,886
VALUE.							
Boots and shoes £	2,512,014	4,405,582	355,307	334,543	144,094	21,673	7,773,213
Slippers .. £	381,217	565,046	41,050	(a)	(a)	..	61,042,233
Uppers (c) .. £	5,453	4,960	(a)	(a)	119	(a)	(b) 25,019

(a) Not available for publication.

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

(c) Made for other than factory use.

23. **Grain-milling.**—(i) *Details for States, 1939-40.* The following table shows the position of the grain-milling industry in each State :—

GRAIN-MILLING, 1939-40.

Item .	N.S.W.	Victoria.	Q'land.	S. Aust. (a)	W. Aust.	Tas. (a)	Australia.
Number of factories ..	53	36	10	37	20	11	167
Number of persons engaged ..	1,413	1,054	366	469	444	112	3,858
Value of land and buildings £	809,820	598,045	197,587	169,740	258,122	71,343	2,104,657
Value of plant and machinery £	706,481	501,585	138,780	246,833	209,274	26,917	1,829,920
Wages paid ..	370,594	260,082	89,387	108,837	113,806	24,284	976,080
Value of fuel used £	93,998	62,093	16,880	34,287	37,128	3,858	248,294
Value of materials used £	4,223,951	3,390,400	867,849	1,162,567	1,159,298	251,568	11,055,039
Total value of output £	5,425,182	4,007,867	1,160,244	1,381,700	1,488,865	302,864	13,766,731
Value of production .. £	1,107,233	553,368	275,515	184,855	292,389	47,438	2,462,798

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

(ii) *Production of Flour and By-products, 1935-36 to 1939-40.* The production of flour by the mills in each State for the years indicated was as follows :—

GRAIN-MILLING : PRODUCTION OF FLOUR.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
	Tons.(a)	Tons.(a)	Tons.(a)	Tons.(a)	Tons.(a)	Tons.(a)	Tons.(a)
1935-36 ..	523,281	435,340	86,142	124,021	118,340	20,492	1,307,616
1936-37 ..	464,498	420,364	82,423	119,192	122,723	19,579	1,228,779
1937-38 ..	476,881	424,302	81,242	123,878	125,472	19,155	1,250,930
1938-39 ..	547,162	436,829	84,314	146,262	138,583	19,582	1,372,732
1939-40 ..	583,568	404,064	89,038	146,770	141,520	18,890	1,383,850

(a) Tons of 2,000 lb.

The production of flour in Australia for 1939-40, 1,383,850 tons, was valued at £10,834,256. In addition, 590,997 tons of bran and pollard, valued at £2,633,877, were made. The quantity of wheat ground was 67,427,811 bushels.

24. **Bakeries.**—Information regarding establishments in which the manufacture of bread, cakes, etc., was carried on in the year 1939-40 is given in the table below. It should be noted, however, that, as explained in § 1 par. 2 above the details refer only to establishments coming within the definition of a factory. For that reason there are a large number of bakehouses omitted and consequently the table does not give complete details of the industry. This is true of all other industries covered by the statistics of manufacturing production but, in view of the omission of such a large number of establishments in this instance, special mention of this fact is deemed necessary.

BAKERIES (INCLUDING CAKES AND PASTRY), 1939-40.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.(a)	Australia.
Number of factories ..	776	597	260	156	140	78	2,007
Number of persons engaged ..	4,363	3,301	1,336	1,048	556	1,236	11,939
Value of land and buildings ..	2,406,632	1,266,693	473,648	286,894	198,246	369,133	5,001,246
Value of plant and machinery ..	640,533	451,758	152,215	120,821	60,913	118,818	1,545,058
Wages paid ..	831,643	577,202	217,020	162,285	94,752	186,053	2,068,955
Value of fuel used ..	135,169	92,947	32,041	23,692	14,034	20,533	318,416
Value of materials used ..	2,729,156	2,255,721	855,188	552,400	357,945	526,301	7,276,711
Total value of output ..	4,563,124	3,689,027	1,407,203	899,275	600,706	920,631	12,079,966
Value of production ..	1,698,799	1,340,359	519,974	323,183	228,727	373,797	4,484,839

(a) Includes Confectionery.

25. **Sugar-mills.**—(i) *Details for 1939-40.*—The following table shows the position of the cane-crushing branch of the sugar-making industry in New South Wales and Queensland in 1939-40. Sugar-cane is not grown in the other States. Details regarding the area, yield, etc., of sugar-cane will be found in Chapter XVII. "Agricultural Production".

SUGAR-MILLS, 1939-40.

Items.	N.S.W.	Queensland.	Australia.
Number of factories ..	3	33	36
Number of persons engaged ..	209	4,519	4,728
Value of land and buildings ..	246,844	1,099,833	1,346,677
Value of plant and machinery ..	958,734	7,528,113	8,486,847
Wages paid ..	87,948	1,407,846	1,495,794
Value of fuel used ..	14,618	138,214	152,832
Value of materials used ..	471,478	10,792,835	11,264,313
Total value of output ..	701,202	13,713,856	14,415,058
Value of production ..	215,106	2,782,807	2,997,913

The products of the sugar-mill are raw sugar and molasses, the former being sent to the refineries in different parts of Australia for further treatment. Part of the molasses produced is used for distillation, part is prepared for human consumption, part is turned into food-cake for cattle, part is used for manuring land, and the balance is either burnt as fuel or is allowed to run to waste. The latter, however, is a diminishing quantity.

(ii) *Progress of Industry.* (a) *New South Wales.* The following table shows the progress which has been made in this industry in New South Wales since 1911 :—

SUGAR-MILLS : NEW SOUTH WALES.

Items.	1911.	1936-37.	1937-38.	1938-39.	1939-40.
Number of factories ..	4	3	3	3	3
Number of employees ..	469	195	260	212	209
Cane crushed .. tons	147,799	21,169	361,724	337,038	274,548
Sugar produced ..	17,299	38,158	47,077	45,106	36,938
Molasses produced gals.	796,440	1,329,660	1,754,527	1,489,090	1,338,802

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

(b) *Queensland.* Details for Queensland for 1911 and the last four years are given hereunder:—

SUGAR-MILLS : QUEENSLAND.

Items	1911.	1936-37.	1937-38.	1938-39.	1939-40.
Number of factories ..	49	33	33	33	33
Number of persons engaged ..	4,295	4,381	4,324	4,419	4,519
Cane crushed .. tons	1,534,451	5,170,571	5,132,886	5,432,193	6,038,821
Sugar produced .. "	173,296	744,676	763,242	775,064	891,738
Molasses—					
Sold to distillers and others .. gals.	2,393,669	6,086,864	7,071,109	8,275,887	9,581,241
Used as fodder .. "	789,564	4,351,822	3,914,113	4,237,196	4,727,170
Used as manure .. "	223,000	3,211,423	3,363,624	3,293,543	4,295,289
Run to waste .. "	1,847,333	560,326	466,481	498,926	457,541
Burnt as fuel .. "		6,354,841	5,576,764	3,748,590	3,834,653
Sold or used for other purposes .. "		397,080	157,496	232,049	188,889
In stock .. "	1,197,626	..	..	..	..
Total molasses .. "	6,451,192	20,962,356	20,549,587	20,286,191	23,084,783

26. *Sugar Refineries.*—The establishment of the sugar-refining industry considerably antedates the establishment of the sugar-milling industry, the raw material operated on in the earlier years coming chiefly from Mauritius and the East. In 1939-40 there were two sugar refineries in each of the States of Victoria and Queensland, and one in each of the States of New South Wales, South Australia and Western Australia. The quantity of raw sugar treated amounted to 367,157 tons, for a yield of 360,097 tons of refined sugar, valued at £11,550,972.

27. *Confectionery Factories.*—(i) *Details for each State, 1939-40.* At the close of the year 1900 there were in New South Wales 16 establishments with 706 persons engaged and in Victoria 16 establishments, with 731 persons engaged, the plant and machinery in the former State being valued at £2,815, and in the latter at £19,070. The figures for 1939-40 given hereunder show the remarkable development since 1900:—

SUGAR CONFECTIONERY FACTORIES(a), 1939-40.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas. (b)	Australia.
Number of factories ..	73	85	23	19	10	1	211
Number of persons engaged ..	3,920	2,985	564	410	321	5	8,205
Value of land and buildings £	1,025,118	658,481	219,980	84,659	(c)	(d)	2,067,466
Value of plant and machinery £	977,855	589,179	123,804	63,099	(c)	(c)	1,828,060
Wages paid ..	£ 625,022	480,469	75,639	40,344	(c)	(c)	1,264,929
Value of fuel used ..	£ 68,419	52,685	10,350	9,029	(c)	(c)	147,086
Value of materials used ..	£ 2,017,411	1,337,122	212,993	145,960	(c)	(c)	3,837,190
Total value of output ..	£ 4,088,672	2,490,338	422,722	222,769	(c)	(c)	7,457,814
Value of production ..	£ 2,002,842	1,100,531	199,379	67,780	(c)	(c)	3,473,538

(a) Including Chocolate and Ice Cream. (b) Ice Cream factories—Other Confectionery included in Bakeries. (c) Particulars not available for publication. (d) Includes Western Australia and Tasmania.

(ii) *Total for Australia, 1935-36 to 1939-40.*—Particulars of the confectionery industry during the last five years are shown in the following table :—

SUGAR CONFECTIONERY FACTORIES(a) : AUSTRALIA.

Items.	1935-36.	1936-37.	1937-38.	1938-39.	1939-40.
Number of factories	217	214	204	209	211
Number of persons engaged	7,516	7,975	8,235	8,276	8,205
Value of land and buildings	£ 1,774,452	1,902,059	2,042,198	2,079,601	2,067,466
Value of plant and machinery	£ 1,712,163	1,773,178	1,830,166	1,854,398	1,828,060
Wages paid	£ 1,010,775	1,063,421	1,179,223	1,231,375	1,264,929
Value of fuel used	£ 117,041	98,771	141,459	144,349	147,086
Value of materials used	£ 3,023,696	3,202,325	3,555,710	3,704,774	3,837,190
Total value of output	£ 5,662,146	5,573,148	6,660,655	7,107,045	7,457,814
Value of production	£ 2,521,409	2,272,052	2,963,486	3,257,922	3,473,538

(a) See notes to previous table.

The confectionery industry expanded rapidly during the war years of 1914-19, largely as a result of the stimulus afforded by the embargo placed on the importation of luxuries during that period. The industry, however, was seriously affected by the business depression but has now regained its former position. Confectionery establishments in Tasmania have been combined with bakeries in order to conceal confidential information. Production in Australia is sufficient to supply local requirements, and an export trade is being developed. Several large British manufacturers of confectionery have established branch works in Australia.

28. **Jam and Fruit Preserving, Pickles, Sauces and Vinegar Factories.**—(i) *Details for each State, 1939-40.* The following table gives particulars of factories included in this class for 1939-40 :—

JAM AND FRUIT PRESERVING, PICKLES, ETC., FACTORIES, 1939-40.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories	32	45	14	17	8	12	128
Number of persons engaged	1,874	3,441	522	548	88	776	7,249
Value of land and buildings	£ 440,352	714,648	50,578	129,235	18,730	148,713	1,502,256
Value of plant and machinery	£ 238,331	358,401	69,957	52,919	5,184	43,131	767,923
Wages paid	£ 346,447	616,488	88,960	85,085	12,043	151,906	1,300,929
Value of fuel used	£ 28,968	53,660	6,923	7,125	1,008	11,015	108,699
Value of materials used	£ 1,325,992	2,914,409	606,195	336,270	42,599	646,422	5,871,887
Total value of output	£ 2,202,719	4,439,409	889,149	502,129	71,407	842,474	8,947,287
Value of production	£ 847,739	1,471,340	276,931	158,734	27,800	185,037	2,966,701

(ii) *Total for Australia, 1935-36 to 1939-40.* Particulars in connexion with these establishments in Australia for the last five years are given hereunder :—

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

Items.	1935-36.	1936-37.	1937-38.	1938-39.	1939-40.
Number of factories	125	121	121	123	128
Number of persons engaged	5,773	5,906	6,596	6,476	7,249
Value of land and buildings	£ 1,125,204	1,218,132	1,309,014	1,382,150	1,502,256
Value of plant and machinery	£ 549,413	598,126	665,863	720,639	767,923
Wages paid	£ 929,792	971,768	1,143,190	1,148,991	1,300,929
Value of fuel used	£ 89,227	87,019	93,055	97,521	108,699
Value of materials used	£ 3,965,338	4,177,792	4,571,219	4,799,515	5,871,887
Total value of output	£ 6,276,112	6,298,642	6,974,291	7,230,914	8,947,287
Value of production	£ 2,221,547	2,033,831	2,310,017	2,333,878	2,966,701

The progress of the jam-making industry was very marked during the war years of 1914-19, when large quantities were exported overseas for the supply of army requirements. In the year 1918-19 the production amounted to 142,290,000 lb., but it had fallen to 90,140,000 lb. in 1920-21. During the succeeding years the production varied considerably, falling to 66,120,000 lb. in 1930-31 and subsequently improving to 121,158,000 lb. in 1939-40. The output of preserved fruit reached the record dimensions of 157,761,000 lb. in 1937-38. Production in 1939-40 was slightly lower at 148,468,000 lb. The production of pickles and sauces again showed a satisfactory improvement.

(iii) *Production.* The following table shows the quantity and value of jams, pickles and sauces manufactured in each State in 1939-40 :—

JAMS, PRESERVED FRUIT, PICKLES AND SAUCES : OUTPUT, 1939-40.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
QUANTITY.							
Jams and Jellies ... '000 lb.	29,649	51,859	8,626	9,480	1,277	20,267	121,158
Fruit Pulp—							
Consumed in own works ... cwt.	9,627	65,407	8,353	15,823	(a)	(a)	b106,940
For sale or addition to stock ... cwt.	23,792	74,859	5,472	16,617	3,102	85,325	209,167
Tomato Pulp—							
Consumed in own works ... cwt.	23,677	91,979	(a)	22,094	(a)	..	b146,259.
For sale or addition to stock ... cwt.	26,756	237,901	(a)	7,480	1,797	(a)	b277,855
Fruit, preserved ... '000 lb.	24,183	88,062	24,079	8,121	62	3,961	148,468
Pickles ... '000 pints	2,054	2,474	418	1,801	(a)	(a)	(b) 7,145
Sauces	7,424	11,780	757	2,430	(a)	(a)	(b) 23,242
VALUE.							
Jams and Jellies ... £	720,367	1,207,876	200,139	180,899	26,073	488,201	2,823,555
Fruit, preserved ... £	517,299	1,529,940	525,544	133,038	833	89,342	2,795,996
Pickles ... £	95,596	85,445	19,475	66,286	(a)	(a)	b279,593
Sauces ... £	411,901	364,901	25,438	75,881	(a)	(a)	b901,985

(a) Not available for publication.

(b) Including States marked (a).

29. *Bacon-curing Factories.*—(i) *Details for each State, 1939-40.* The table hereunder gives particulars of factories engaged in bacon-curing in each State for 1939-40 :—

BACON-CURING FACTORIES, 1939-40.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	25	18	9	9	8	10	79
Number of persons engaged ..	394	553	847	261	132	62	2,249
Value of land and buildings £	171,019	227,021	233,004	93,130	29,533	27,283	780,990
Value of plant and machinery £	60,660	117,888	135,523	34,126	15,216	9,519	372,932
Wages paid ..	103,430	124,746	203,662	57,561	28,267	12,669	530,335
Value of fuel used ..	13,766	19,034	30,866	10,636	6,604	1,672	82,578
Value of materials used ..	903,387	922,472	1,671,639	396,785	389,837	120,321	4,404,441
Total value of output ..	1,153,733	1,149,538	2,021,462	492,532	486,174	146,598	5,450,037
Value of production ..	236,580	208,032	318,957	85,111	89,733	24,605	963,018

(ii) *Quantity and Value of Production.* The number of pigs cured and the quantity and value of the production of factories in each State for 1939-40 are given in the following table :—

BACON-CURING FACTORIES : PIGS CURED AND PRODUCTION, 1939-40.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
PIGS CURED.							
Pigs cured on own account No.	225,457	170,526	233,215	78,350	57,021	23,724	788,293
Pigs cured on commission „	1,886	379	897	289	101	418	3,970
Total .. „	227,343	170,905	234,112	78,639	57,122	24,142	792,263
PRODUCTS.							
Bacon and ham .. '000 lb.	25,630	17,386	19,950	6,643	4,642	2,559	76,810
Lard .. „	582	875	1,273	277	228	100	3,335
VALUE.							
Bacon and ham (a) £	1,254,435	899,723	933,519	326,098	246,541	96,434	3,756,750
Lard .. „ £	13,186	20,650	24,405	6,316	5,801	2,063	72,421

(a) Partly estimated.

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

30. *Butter, Cheese and Condensed Milk Factories.*—(i) *Details for each State, 1939-40.* The following table gives particulars of butter, cheese and condensed milk factories in each State :—

BUTTER, CHEESE AND CONDENSED MILK FACTORIES, 1939-40.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.A.	Tas.	Australia.
Number of factories ..	127	167	102	50	24	50	520
Number of persons engaged ..	1,587	3,194	1,361	630	241	246	7,259
Value of land and buildings £	718,173	1,207,095	694,949	225,685	90,839	77,214	3,013,955
Value of plant and machinery £	849,556	1,286,131	763,190	152,003	88,742	76,767	3,216,389
Wages paid ..	388,534	798,654	316,420	131,536	54,756	37,765	1,727,665
Value of fuel used ..	108,868	206,258	69,854	26,657	15,067	7,164	433,868
Value of materials used ..	7,394,647	12,123,800	8,849,813	1,710,150	964,394	611,516	31,654,320
Total value of output ..	8,204,786	14,741,260	9,501,911	2,013,993	1,153,089	728,504	36,343,543
Value of production ..	701,271	2,411,202	582,244	277,186	173,628	109,824	4,255,355

(ii) *Total for Australia, 1935-36 to 1939-40.* The progress of industries included in this group during the last five years is set out hereunder :—

BUTTER, CHEESE AND CONDENSED MILK FACTORIES : AUSTRALIA.

Items.	1935-36.	1936-37.	1937-38.	1938-39.	1939-40.
Number of factories ..	517	517	520	523	520
Number of persons engaged ..	6,062	6,226	6,655	6,851	7,259
Value of land and buildings ..	£ 2,635,863	2,733,273	2,779,663	2,880,323	3,013,955
Value of plant and machinery ..	£ 2,849,645	2,938,110	2,977,640	3,066,840	3,216,389
Wages paid ..	£ 1,265,898	1,332,911	1,486,780	1,569,531	1,727,665
Value of fuel used ..	£ 310,260	335,451	362,217	389,501	433,868
Value of materials used ..	£ 22,627,448	21,995,736	27,187,350	29,161,983	31,654,320
Total value of output ..	£ 25,869,089	25,434,496	31,656,156	33,094,851	36,343,543
Value of production ..	£ 2,931,381	3,103,309	4,106,589	3,543,367	4,255,355

(iii) *Quantity and Value of Production.* The next table shows the quantities and values of butter, cheese and condensed milk produced in factories and the quantities of milk used in the manufacture of butter, cheese and condensed milk during 1939-40 :—

BUTTER, CHEESE AND CONDENSED MILK FACTORIES : PRODUCTION, 1939-40.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
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MILK USED (,000 OMITTED).

For the manufacture of—							
Butter .. gals.	214,162	318,604	285,548	37,095	29,130	19,176	903,715
Cheese .. "	6,721	24,274	11,676	19,544	846	3,179	66,240
Condensed, &c., Milk ..	6,893	28,189	28	722	1,241	396	37,469

PRODUCTS (,000 OMITTED).

Butter .. lb.	112,020	161,289	139,795	19,843	14,002	9,310	456,259
Cheese .. "	6,634	24,380	(c) 12,112	20,550	843	3,124	67,643
Condensed and concentrated milk .. lb.	9,612	30,995	..	(a)	(a)	..	(b) 47,987
Powdered milk .. "	2,497	25,624	..	..	..	..	28,121

VALUE (,000 OMITTED).

Butter .. £	7,409	10,428	8,899	1,218	997	596	29,547
Cheese .. £	244	834	(c) 401	691	38	108	2,316
Condensed and concentrated milk .. £	184	726	..	(a)	(a)	..	(b) 1,081
Powdered milk .. £	124	764	..	..	..	..	888

(a) Particulars not available for publication. (b) Includes States marked (a). (c) Excluding 1,730,965 lb. of cheese, valued at £59,920 made in establishments not classified as factories.

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

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

MEAT AND FISH PRESERVING WORKS,(a) 1939-40.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	6	9	13	..	2	3	33
Number of persons engaged ..	381	313	3,668	..	125	37	4,524
Value of land and buildings ..	74,761	88,878	1,464,119	..	(b)	(b)	(c) 2,014,200
Value of plant and machinery ..	74,916	27,458	892,906	..	(b)	(b)	(c) 1,397,631
Wages paid ..	72,991	57,944	1,059,873	..	(b)	(b)	(c) 1,268,752
Value of fuel used ..	10,274	5,609	131,969	..	(b)	(b)	(c) 155,781
Value of materials used ..	334,650	396,313	6,458,351	..	(b)	(b)	(c) 7,405,219
Total value of output ..	473,637	573,563	8,013,645	..	(b)	(b)	(c) 9,422,840
Value of production ..	128,713	171,641	1,423,292	..	(b)	(b)	(c) 1,861,840

(a) Including meat extracts. Western Australia and Tasmania.

(b) Particulars not available for publication.

(c) Includes

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

32. *Breweries.*—(i) *Details for each State, 1939-40.* The following table gives particulars relating to breweries in each State :—

BREWERIES, 1939-40.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	6	9	6	5	6	2	34
Number of persons engaged ..	1,039	1,602	429	251	449	78	3,848
Value of land and buildings £	972,021	791,995	448,158	(a)	298,240	(a)	62,851,337
Value of plant and machinery £	784,005	934,877	388,367	(a)	386,734	(a)	62,778,290
Wages paid ..	£ 311,997	559,114	129,994	(a)	157,205	(a)	61,270,295
Value of fuel used ..	£ 92,749	88,096	32,680	(a)	29,686	(a)	6 272,821
Value of materials used ..	£ 1,057,431	1,498,691	346,172	(a)	351,653	(a)	63,566,390
Total value of output ..	£ 3,682,265	3,101,825	955,341	(a)	1,001,039	(a)	69,509,295
Value of production ..	£ 2,532,085	1,515,038	576,489	(a)	619,700	(a)	65,670,084

(a) Information not available for publication.

(b) Includes South Australia and Tasmania.

(ii) *Total for Australia, 1935-36 to 1939-40.* The next table shows the extent of this industry for the last five years :—

BREWERIES : AUSTRALIA.

Items.	1935-36.	1936-37.	1937-38.	1938-39.	1939-40.
Number of factories ..	35	35	35	34	34
Number of persons engaged ..	3,218	3,378	3,532	3,698	3,848
Value of land and buildings ..	£ 2,426,415	2,537,922	2,678,983	2,801,147	2,851,337
Value of plant and machinery ..	£ 2,440,700	2,454,576	2,642,636	2,737,042	2,778,290
Wages paid ..	£ 1,015,749	1,068,903	1,148,487	1,215,473	1,270,295
Value of fuel used ..	£ 201,527	213,412	234,923	251,286	272,821
Value of materials used ..	£ 2,542,843	2,633,863	3,217,511	3,406,572	3,566,390
Total value of output ..	£ 7,107,661	7,442,660	8,507,086	9,030,309	9,509,295
Value of production ..	£ 4,363,291	4,595,385	5,054,652	5,372,451	5,670,084

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 the production increased each year to 93,864,990 gallons in 1939-40. For a number of years prior to the depression the consumption of ale, stout and beer exceeded 111 gallons per head of the population ; it dropped to 7.32 gallons in 1931-32, but has since risen to more than 12 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 1939-40.

BREWERIES : MATERIALS USED AND PRODUCTION, 1939-40.

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

Malt .. bushels	1,121,827	1,036,711	277,333	(b)	308,938	(b)	(c)3,046,483
Hops .. lb.	962,912	842,939	217,871	(b)	192,939	(b)	(c)2,471,099
Sugar .. cwt.	149,660	128,060	29,800	(b)	15,000	(b)	(c)354,840

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

Malt .. bushels	30.64	32.36	33.46	31.93	38.57	41.30	32.46
Hops .. lb.	26.30	26.31	26.29	29.73	24.09	23.82	26.33
Sugar .. cwt.	4.09	4.00	3.60	3.94	1.87	2.38	3.78

ALE, STOUT AND BEER BREWED.

Quantity gallons	36,610,707	32,039,004	8,288,285	(b)	8,009,482	(b)	69,864,990
Value (a) £	3,952,635	2,944,987	953,730	(b)	975,954	(b)	6 9,291,601

(a) Exclusive of Excise duty.
States marked (b).

(b) Particulars not available for publication.

(c) Includes

33. **Distilleries.**—Distilleries are located in all the States except Western Australia and Tasmania. The following information, which has been furnished by 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 year 1939-40 :—
Materials used ; barley, 88,209 bushels ; barley malt, 71,702 bushels ; molasses, 1,553,160 cwt. ; wine, 9,662,351 gallons ; raisins and currants, 11,935 cwt. ; grapes, 148,765 cwt. The quantity of spirits distilled from barley, malt and grain was 348,619 gallons ; from molasses, 7,913,952 gallons ; and from wine, 1,902,971 gallons ; total 90,165,542 gallons. The quantity of spirits denatured during the year was 5,193,268 gallons.

34. **Tobacco, etc., Factories.**—(i) *Details for each State, 1939-40.* During 1939-40 there were 24 establishments in which the manufacture of tobacco, cigars or cigarettes was carried on. There are no tobacco factories in Tasmania.

TOBACCO, CIGAR AND CIGARETTE FACTORIES, 1939-40.

Items.	N.S.W.	Victoria.	Q'land.	S Aust.	W. Aust.	Australia.
Number of factories	7	11		1	1	24
Number of persons engaged ..	3,071	2,199	26	9	168	5,473
Value of land and buildings ..	£ 633,430	345,932	(a)	(a)	(a)	(b) 1,019,160
Value of plant and machinery ..	£ 598,132	292,039	(a)	(a)	(a)	(b) 910,204
Wages paid	£ 625,269	433,110	(a)	(a)	(a)	(b) 1,085,548
Value of fuel used	£ 25,444	10,185	(a)	(a)	(a)	(b) 36,203
Value of materials used	£ 4,786,575	2,336,516	(a)	(a)	(a)	(b) 7,194,063
Total value of output	£ 6,345,864	3,769,376	(a)	(a)	(a)	(b) 10,239,867
Value of production	£ 1,533,845	1,422,675	(a)	(a)	(a)	(b) 3,009,601

(a) Not available for publication.
Australia.

(b) Including Queensland, South Australia and Western

(ii) *Total for Australia.* This industry was among the first to be established in Australia. In 1861 New South Wales had eleven factories, producing 177,744 lb. of manufactured tobacco ; in the same year there was one factory in Victoria, but the quantity of tobacco manufactured is not available. The Australian market has for many years been largely supplied with local manufactures from the imported leaf. Imports during 1939-40 comprised—manufactured tobacco 530,340 lb., cigars 5,228 lb., and cigarettes 296,425 lb., and the quantities manufactured in Australian factories were respectively 16,570,395 lb., 207,934 lb., and 7,281,828 lb. The following tables show the extent of the industry in Australia for the last five years :—

TOBACCO, CIGAR AND CIGARETTE FACTORIES : AUSTRALIA.

Items.	1935-36.	1936-37.	1937-38.	1938-39.	1939-40.
Number of factories	31	32	32	30	24
Number of employees	5,155	5,447	5,644	5,544	5,473
Value of land and buildings ..	£ 936,521	1,001,236	1,030,344	1,041,798	1,019,160
Value of plant and machinery ..	£ 726,713	870,430	932,827	942,644	910,204
Wages paid	£ 950,790	996,665	1,074,196	1,095,912	1,085,548
Value of fuel used	£ 20,553	29,938	34,344	34,483	36,203
Value of materials used	£ 6,082,506	6,345,214	6,861,305	7,080,574	7,194,063
Total value of output	£ 8,529,491	8,714,581	9,510,121	9,800,413	10,239,867
Value of production	£ 2,426,432	2,339,429	2,614,472	2,685,356	3,009,601

LEAF USED AND PRODUCTION.

Leaf used {	Australian (Stemmed)	'000 lb.	3,653	4,249	4,231	4,489	4,730
	Imported (")	"	14,662	15,049	15,993	16,011	16,521
Tobacco made	"	"	15,277	15,733	16,259	16,305	16,570
Cigars made	"	"	283	262	256	238	208
Cigarettes made	"	"	5,305	5,659	6,325	6,731	7,282

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 4.7 million lb. In this connexion, see Chapter XVII. "Agricultural Production", p. 521.

35. Sawmills, etc.—(i) *Details for States, 1939-40.* The most important industry in Class X. is that of sawmilling. As separate particulars of forest sawmills are not available for some of the States, both forest and town sawmills, as well as plywood and bark mills, have been combined in the following table:—

SAWMILLS, FOREST AND TOWN ; PLYWOOD AND BARK MILLS, 1939-40.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	461	323	438	51	136	212	1,621
Number of persons engaged ..	5,234	4,095	5,748	1,013	2,123	1,529	19,742
Value of land and buildings £	735,087	438,796	390,719	204,102	199,825	78,834	2,047,363
Value of plant and machinery ..	£ 681,469	660,086	704,846	133,147	406,480	232,475	2,818,503
Wages paid ..	£ 1,023,111	856,187	1,070,238	204,214	467,672	250,840	3,872,262
Value of fuel used ..	£ 60,189	61,854	55,487	12,028	38,041	16,931	244,530
Value of materials used ..	£ 3,118,426	1,891,770	2,338,939	836,636	757,603	413,544	9,356,918
Total value of output ..	£ 4,893,689	3,318,273	4,097,745	1,211,017	1,466,388	829,481	15,816,593
Value of production ..	£ 1,715,074	1,364,649	1,703,319	362,353	670,744	399,006	6,215,145

(ii) *Total for Australia, 1935-36 to 1939-40.* The development of forest and other sawmills, etc., since 1935-36 is shown in the following table:—

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

Items.	1935-36.	1936-37.	1937-38.	1938-39.	1939-40.
Number of establishments	1,443	1,591	1,669	1,621
Number of persons engaged	17,297	18,284	19,565	19,742
Value of land and buildings ..	£	1,974,918	2,015,040	2,025,857	2,054,611
Value of plant and machinery ..	£	2,702,063	2,671,982	2,807,747	2,784,716
Wages paid ..	£	2,927,060	3,188,000	3,601,453	3,634,627
Value of fuel used ..	£	170,705	184,038	225,537	244,530
Value of materials used ..	£	6,663,907	7,942,375	8,975,242	8,522,895
Total value of output ..	£	11,515,591	13,379,054	15,092,088	14,537,888
Value of production ..	£	4,680,979	5,252,641	5,891,309	5,789,211

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, had recovered to 757 million super. feet in 1939-40. Further reference is made to the sawmilling industry in Chapter XIX. "Forestry".

36. Furniture, Cabinet-making, and Upholstery.—These industries constitute the principal manufactures in Class XI. The following table gives particulars for each State in 1939-40:—

FURNITURE, CABINET-MAKING AND UPHOLSTERY FACTORIES, 1939-40.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	248	312	115	78	88	39	880
Number of persons engaged ..	4,085	3,257	1,503	1,019	635	341	10,840
Value of land and buildings ..	£ 724,988	664,449	230,870	133,017	110,414	37,956	1,901,694
Value of plant and machinery ..	£ 226,872	140,748	70,914	79,711	29,708	14,719	562,672
Wages paid ..	£ 845,840	562,894	301,359	162,636	111,032	52,862	2,036,623
Value of fuel used ..	£ 24,880	17,662	8,119	7,079	3,169	1,358	62,267
Value of materials used ..	£ 1,348,330	975,879	460,590	273,398	178,270	60,905	3,297,372
Total value of output ..	£ 2,616,733	1,920,853	916,630	530,971	359,925	142,218	6,487,330
Value of production ..	£ 1,243,523	927,312	447,921	250,494	178,486	79,955	3,127,691

37: **Printing Works.**—Printing and bookbinding works rank high in importance among the industries of Australia, and in 1939–40 afforded employment for about 28,000 employees, and paid nearly £6,100,000 in salaries and wages, while the value of output amounted to £17,894,000. The following table gives particulars of establishments engaged in general printing in each State for 1939–40. These establishments include those engaged in lithographic printing, the printing of periodicals, excepting those which may be produced by newspapers, bookbinding, paper ruling and linotyping. Government printing works are included, but establishments producing newspapers and weekly publications are shown separately in the succeeding table :—

GOVERNMENT AND GENERAL PRINTING WORKS, 1939–40.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	330	429	95	66	83	19	1,022
Number of persons engaged ..	7,213	6,760	1,716	1,143	923	475	18,230
Value of land and buildings £	149,270	308,136	79,233	56,426	55,577	10,546	659,188
Value of plant and machinery £	1,295,307	1,171,770	208,253	220,290	177,305	78,213	3,151,138
Wages paid ..	£ 1,383,803	£ 1,293,580	310,751	200,949	170,163	86,284	3,445,530
Value of fuel used ..	£ 42,196	£ 42,777	10,336	8,079	5,432	2,435	111,255
Value of materials used ..	£ 1,701,562	£ 1,580,132	318,771	204,004	189,605	70,664	4,064,738
Total value of output ..	£ 4,106,048	£ 3,771,200	848,159	526,548	516,308	234,031	10,002,294
Value of production ..	£ 2,362,290	£ 2,148,291	519,052	314,465	321,271	160,932	5,826,301

ESTABLISHMENTS PRODUCING NEWSPAPERS (INCLUDING WEEKLY PUBLICATIONS), 1939–40.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	213	111	61	38	34	7	464
Number of persons engaged ..	4,219	2,436	1,491	711	546	350	9,753
Value of land and buildings £	1,889,933	810,050	538,610	354,330	276,066	40,923	3,909,912
Value of plant and machinery £	1,557,907	647,151	416,394	246,937	141,625	42,526	3,052,540
Wages paid ..	£ 1,155,971	£ 682,735	353,730	184,597	161,191	83,757	2,621,981
Value of fuel used ..	£ 54,561	£ 32,147	21,151	8,885	12,691	2,774	132,209
Value of materials used ..	£ 1,590,046	£ 940,094	332,498	216,514	152,388	41,042	3,272,582
Total value of output ..	£ 3,721,967	£ 2,038,666	938,368	511,236	453,782	227,834	7,891,853
Value of production ..	£ 2,077,360	£ 1,066,425	584,719	285,837	288,703	184,018	4,487,062

38. **Tyres, Motor and Cycle.**—(i) *Details for each State, 1938–39.* During the last decade, the number of motor car and cycle users has shown a considerable advance and this necessarily has had a stimulating effect on the industry engaged in the manufacture of motor and cycle tyres. Particulars for each State during 1938–39 are shown hereunder :—

TYRES, MOTOR AND CYCLE, 1938–39.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas. (a)	Australia.
Number of factories ..	86	88	31	24	22	11	262
Number of persons engaged ..	2,935	2,355	160	144	73	56	5,723
Value of land and buildings £	741,152	521,280	66,301	56,760	33,487	22,151	1,441,131
Value of plant and machinery £	471,043	651,569	19,580	15,551	8,891	6,778	1,174,012
Wages paid ..	£ 636,148	£ 502,409	23,917	18,976	9,340	6,107	1,196,897
Value of fuel used ..	£ 84,563	£ 118,742	2,994	2,528	1,305	728	210,920
Value of materials used ..	£ 1,713,247	£ 1,825,247	46,534	33,009	18,711	9,051	3,645,799
Total value of output ..	£ 2,614,506	£ 3,329,652	99,744	74,621	40,171	21,994	6,186,688
Value of production ..	£ 816,696	£ 1,385,603	50,216	39,084	20,095	12,215	2,329,969

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

NOTE.—Later particulars are not available for publication.

(ii) *Total for Australia, 1934-35 to 1938-39.* Prior to 1930-31 particulars regarding this industry were included with Rubber Goods but separate details are now collected and are shown in the following table for the five years ended 1938-39 :—

TYRES, MOTOR AND CYCLE(a) : AUSTRALIA.

Items.	1934-35.	1935-36.	1936-37.	1937-38.	1938-39.
Number of factories	261	260	261	267	262
Number of persons engaged	3,098	4,098	4,907	5,847	5,723
Value of land and buildings	£ 1,240,749	1,257,800	1,583,004	1,587,808	1,441,131
Value of plant and machinery	£ 895,139	841,815	1,281,468	1,296,315	1,174,012
Wages paid	£ 736,865	786,713	980,567	1,187,061	1,196,897
Value of fuel used	£ 134,335	136,542	192,624	212,533	210,920
Value of materials used	£ 2,173,447	2,269,954	3,751,258	4,533,656	3,645,799
Total value of output	£ 3,499,132	3,788,333	5,851,930	6,849,686	6,186,688
Value of production	£ 1,191,350	1,381,837	1,908,048	2,103,497	2,329,969

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

NOTE.—Later particulars are not available for publication.

39. **Electric Light and Power Works.**—(i) *Details for each State, 1939-40.* The increased demand for electrical energy has been responsible for considerable development in electric light and power works during recent years. Since 1931-32 the production of electric light and power has increased from 2,507 to 5,180 million British units, or by 107 per cent. Particulars for the year 1939-40 are as follows :—

ELECTRIC LIGHT AND POWER WORKS, 1939-40.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories	99	78	53	43	110	4	387
Number of persons engaged	2,148	1,445	587	1,790	702	129	6,801
Value of land and buildings	£ 4,611,531	1,945,153	508,824	597,096	464,671	409,399	8,536,674
Value of plant and machinery	£ 12,271,485	7,467,138	1,760,088	2,038,320	2,895,956	3,184,496	29,617,483
Wages paid	£ 668,240	416,541	186,602	470,046	210,039	29,221	1,980,779
Value of fuel used	£ 1,493,276	651,061	436,864	287,096	625,102	..	3,493,399
Value of materials used	£ 236,845	66,633	45,710	43,335	100,696	61,645	554,873
Total value of output	£ 6,196,385	2,673,351	1,061,158	1,488,071	1,396,733	761,711	13,577,409
Value of production	£ 4,466,264	1,955,657	578,575	1,157,640	670,935	700,066	9,529,137

Particulars of the types of engines and generators installed in Electric Light and Power Works and their rated horse-power are given on p. 581.

(ii) *Production, 1935-36 to 1939-40.* The increase in the production of electric light and power in each of the States during the five years is clearly shown in the following table :—

ELECTRIC LIGHT AND POWER WORKS : PRODUCTION.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
	'000 K.W.H.	'000 K.W.H.	'000 K.W.H.	'000 K.W.H.	'000 K.W.H.	'000 K.W.H.	'000 K.W.H.
1935-36	1,464,898	974,722	224,014	200,488	204,373	459,408	3,527,903
1936-37	1,626,833	1,049,768	256,784	215,714	237,185	522,491	3,908,775
1937-38	1,816,814	1,128,216	352,258	249,002	272,512	542,767	4,353,469
1938-39	1,948,490	1,222,505	387,368	256,283	307,002	566,691	4,668,339
1939-40	2,145,447	1,389,783	421,662	270,414	336,805	615,448	5,179,559

40. **Gas-works.**—(i) *Details for each State, 1939-40.* Gas-works are in operation in the majority of important towns in Australia. New South Wales returned seven coke factories and Queensland three, 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 1939-40 :—

GAS-WORKS, 1939-40.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	42	39	16	3	4	2	106
Number of persons engaged ..	1,054	878	234	619	116	53	2,954
Value of land and buildings £	758,665	408,144	189,043	25,013	(a)	(a)	61,495,897
Value of plant and machinery £	3,300,459	2,258,710	552,628	1,128,339	(a)	(a)	67,608,366
Wages paid ..	292,741	238,088	65,128	168,930	(a)	(a)	(b) 808,875
Value of fuel used ..	208,895	24,773	5,478	1,451	(a)	(a)	(b) 256,443
Value of materials used £	829,049	775,930	158,439	138,067	(a)	(a)	62,018,426
Total value of output £	2,303,081	1,487,584	347,277	547,555	(a)	(a)	64,960,066
Value of production ..	£ 1,265,137	686,881	183,360	408,037	(a)	(a)	62,685,197

(a) Not available for publication.

(b) Includes Western Australia and Tasmania.

(ii) *Coal Used and Production, 1939-40.* The following table gives details for 1939-40 :—

GAS-WORKS : COAL USED AND PRODUCTION, 1939-40.

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

Coal tons	621,164	411,554	91,702	80,779	(a)	(a)	61,246,562
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PRODUCTS.

Gas produced ,000 cubic ft.	11,208,763	7,693,470	1,513,570	1,239,588	(a)	(a)	622,504,472
Gas sold ,000 cubic ft.	9,533,170	6,906,148	1,336,316	990,383	(a)	(a)	619,509,965
Coke produced .. tons	385,450	234,669	49,207	48,642	(a)	(a)	(b) 739,047
Coke for sale .. tons	240,983	141,490	25,758	35,365	(a)	(a)	(b) 453,863

VALUE.

Gas sold .. £	1,859,641	1,975,940	523,319	466,550	(a)	(a)	b 5,117,435
Coke for sale .. £	253,641	197,582	32,574	57,839	(a)	(a)	(b) 562,818

(a) Particulars not available for publication.

(b) Includes States marked (a).

The output of gas declined from 20,929,569 thousand cubic feet in 1929-30 to an average of 17,800,000 thousand cubic feet during the three years ended June, 1934, but has since risen to a new high level of 22,504,472 thousand cubic feet in 1939-40.