

CHAPTER XIX.

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 should 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.
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
1940-41 ..	9,919	9,121	2,972	2,230	2,056	1,002	27,300
1941-42 ..	10,166	8,918	2,788	2,167	1,938	994	26,971

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 the industrial classes agreed upon by the Conference of Statisticians in 1930. This classification, which was introduced during 1930-31, superseded the grouping which had been in use since 1902. The definition of a factory adopted at the Conference of Statisticians in 1902 is, however, still used. Details in regard to some of the principal industries included in the table will be found in § 9 hereinafter.

FACTORIES : NUMBER IN INDUSTRIAL CLASSES, AUSTRALIA.

Class of Industry.	1937-38.	1938-39.	1939-40.	1940-41.	1941-42.
I. Treatment of Non-metalliferous Mine and Quarry Products	548	564	559	576	517
II. Bricks, Pottery, Glass, etc.	459	471	452	440	415
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease	652	666	685	719	740
IV. Industrial Metals, Machines, Implements and Conveyances	7,102	7,255	7,370	7,315	7,236
V. Precious Metals, Jewellery and Plate	290	290	306	304	291
VI. Textiles and Textile Goods	591	611	650	705	761
VII. Skins and Leather	536	533	531	550	540
VIII. Clothing	4,334	4,314	4,270	4,370	4,316
IX. Food, Drink and Tobacco	4,982	5,202	5,291	5,314	5,218
X. Woodworking and Basketware	2,771	2,822	2,778	2,784	2,801
XI. Furniture, Bedding, etc.	1,113	1,149	1,152	1,124	1,035
XII. Paper, Stationery, Printing, Bookbinding, etc.	1,790	1,816	1,800	1,819	1,744
XIII. Rubber	302	299	299	283	269
XIV. Musical Instruments	34	34	38	39	45
XV. Miscellaneous Products	398	413	437	476	565
Total, Classes I. to XV.	25,902	26,439	26,618	26,818	26,493
XVI. Heat, Light and Power	493	502	493	482	478
Grand Total	26,395	26,941	27,111	27,300	26,971

Although not the best index of manufacturing activity, the number of factories affords some indication of the development of secondary industries. Since the year 1931-32 the number of factories had shown an annual increase to a maximum of 27,300 in 1940-41. In the year 1941-42, a slight decrease was recorded.

(ii) *States, 1941-42.* The following table shows the number of factories in each State in 1941-42, classified according to the nature of the industry:—

FACTORIES : NUMBER IN INDUSTRIAL CLASSES, 1941-42.

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 ..	191	156	44	55	48	23	517
II. Bricks, Pottery, Glass, etc. ..	192	104	37	43	26	13	415
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease ..	352	230	39	60	38	21	740
IV. Industrial Metals, Machines, Implements and Conveyances ..	2,837	2,422	672	556	538	211	7,236
V. Precious Metals, Jewellery and Plate ..	91	125	22	23	23	7	291
VI. Textiles and Textile Goods ..	223	436	19	39	20	24	761
VII. Skins and Leather ..	241	184	47	32	28	8	540
VIII. Clothing ..	1,743	1,726	276	296	217	58	4,316
IX. Food, Drink and Tobacco ..	1,759	1,427	755	583	435	259	5,218
X. Woodworking and Basketware ..	994	709	464	166	198	270	2,801
XI. Furniture, Bedding, etc. ..	316	370	120	91	90	48	1,035
XII. Paper, Stationery, Printing, Book-binding, etc. ..	686	640	158	111	118	28	1,744
XIII. Rubber ..	96	79	34	27	19	14	269
XIV. Musical Instruments ..	16	18	3	5	3	..	45
XV. Miscellaneous Products ..	291	182	34	30	24	4	565
Total, Classes I. to XV. ..	10,028	8,808	2,724	2,120	1,825	988	26,493
XVI. Heat, Light and Power ..	138	110	64	47	113	6	478
Grand Total ..	10,166	8,918	2,788	2,167	1,938	994	26,971

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

1. *States, 1941-42.*—The following table shows, for each State, the number of factories classified according to the number of persons engaged in 1941-42:—

FACTORIES : CLASSIFICATION ACCORDING TO SIZE OF FACTORY, 1941-42.

No. of Persons Engaged in each Factory.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
NUMBER OF FACTORIES.							
Under 4 ..	3,207	2,935	906	615	904	298	8,865
4 ..	929	658	272	213	166	114	2,352
5 to 10 ..	2,524	2,092	710	619	413	361	6,719
11 to 20 ..	1,365	1,236	376	298	184	99	3,558
21 to 50 ..	1,190	1,115	277	248	182	74	3,086
51 to 100 ..	447	425	108	90	60	29	1,159
Over 100 ..	504	457	139	84	29	19	1,232
Total ..	10,166	8,918	2,788	2,167	1,938	994	26,971

Some marked changes have taken place during the past decade in the distribution of factories according to the number of persons engaged. In 1931-32 of a total of 21,657 factories reported, 10,367, or 47.87 per cent., had less than five persons engaged whereas in 1941-42 the number of such factories had increased to 11,217, representing only 41.59 per cent. of the total of 26,971 factories. The increase in the number of small factories is due to the inclusion of small repair establishments (boots and shoes, cycles and motors, etc.) which are technically accounted as factories by the installation of some power machine.

Factories with more than 100 persons engaged has advanced rapidly from 547 in 1931-32 to a new high level of 1,232 in 1941-42, the persons engaged in these factories increasing from 145,886, or 41.65 per cent. of the total number, to 428,127, or 58.36 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, 1941-42.

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 ..	6,491	5,540	1,858	1,318	1,654	672	17,533
4 ..	3,716	2,632	1,088	852	664	456	9,408
5 to 10 ..	17,390	14,964	4,905	4,282	2,817	2,488	46,846
11 to 20 ..	19,908	18,282	5,469	4,427	2,709	1,462	52,257
21 to 50 ..	37,810	35,633	8,530	7,879	5,749	2,293	97,894
51 to 100 ..	31,834	29,495	7,556	6,345	4,390	1,924	81,544
Over 100 ..	184,971	153,256	33,054	40,977	6,898	8,971	428,127
Total ..	302,120	259,802	62,460	66,080	24,881	18,266	733,609
Av. per F'cty	29.72	29.14	22.40	30.50	12.84	18.37	27.20

2. Australia, 1937-38 to 1941-42.—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-tablish-ments.	Persons en-gaged.	Es-tablish-ments.	Persons en-gaged.	Es-tablish-ments.	Persons en-gaged.	Es-tablish-ments.	Persons en-gaged.
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	47.54	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
1940-41—								
Number ..	22,022	127,776	4,170	176,714	1,108	352,582	27,300	657,072
Average per establishment ..	..	5.80	..	42.38	..	318.21	..	24.07
Percentage on total ..	80.67	19.44	15.27	26.90	4.06	53.66	100.00	100.00
1941-42—								
Number ..	21,494	126,044	4,245	179,438	1,232	428,127	26,971	733,609
Average per establishment ..	..	5.86	..	42.27	..	347.51	..	27.20
Percentage on total ..	79.69	17.18	15.74	24.46	4.57	58.36	100.00	100.00

§ 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, 1,263 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, 66; Other Metal Works, 55; Ready-made Tailoring and Clothing, 347; Dressmaking, 103; Millinery, 47; Bakeries, 158; Cabinet and Furniture Making, 31; All other industries, 456.

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 from 1941-42:—

FACTORIES(a) : RATED HORSE-POWER OF ENGINES, 1941-42.

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 ..	9,661	409	10,070	814,666	85,889
Victoria	8,456	391	8,847	536,878	96,179
Queensland	2,606	134	2,740	209,037	26,427
South Australia ..	1,972	151	2,123	157,600	18,370
Western Australia ..	1,683	146	1,829	71,101	7,459
Tasmania	958	32	990	76,476	10,626
Australia	25,336	1,263	26,599	1,865,758	244,950

(a) Excludes Central Electric Stations.

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

FACTORIES(a) : TYPES AND RATED HORSE-POWER OF ENGINES ORDINARILY IN USE, 1941-42.

State.	Rated Horse-power of Engines ordinarily in use.								Total. (b)
	Steam.		Internal Combustion.			Water.	Motors driven by electricity.		
	Reciprocating.	Turbine.	Gas.	Light Oils.	Heavy Oils.		Purchased.	Own Generation. (c)	
	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
N.S.W. ..	108,785	59,667	4,383	4,357	13,542	53	623,879	87,733	814,666
Victoria ..	38,382	39,551	3,738	4,927	10,442	1,313	438,525	43,603	536,878
Queensland ..	77,339	14,011	7,702	3,665	14,442	..	91,878	47,274	209,037
S. Aust. ..	7,467	6,712	4,388	2,293	8,978	10	127,872	14,594	157,600
W. Australia ..	9,112	56	2,783	1,701	7,040	..	50,409	4,355	71,101
Tasmania ..	3,642	2,017	17	2,929	587	192	67,092	8,647	76,476
Australia ..	244,727	122,014	23,011	19,872	54,971	1,568	1,399,595	203,406	1,865,758

(a) Excludes Central Electric Stations.

(b) Excludes particulars in column (c).

(ii) *Australia, 1937-38 to 1941-42.*—Details of the horse-power of the various types of engines in use are given for Australia since 1937-38 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)	
	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	
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	32,984	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
1940-41 ..	248,230	111,057	24,042	18,612	57,204	1,610	1,267,185	205,541	1,727,940
1941-42 ..	244,727	122,014	23,011	19,872	54,971	1,568	1,399,595	203,406	1,865,758

(a) Excludes Central Electric Stations.

(b) Excludes particulars in column (c).

(iii) *In Classes of Industry, 1941-42.* The next table shows the rated horse-power of engines ordinarily in use in the various classes of industry in each State during 1941-42 :—

FACTORIES(a) : RATED HORSE-POWER OF ENGINES ORDINARILY IN USE, 1941-42.

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 ..	42,086	26,252	7,736	4,672	4,832	8,926	94,504
II. Bricks, Pottery, Glass, etc. ..	26,057	18,973	3,622	4,384	2,973	833	56,842
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease ..	31,951	45,079	4,213	26,387	6,750	573	114,953
IV. Industrial Metals, Machines, Implements and Con- veyances ..	415,992	134,418	38,696	59,960	15,875	16,643	681,584
V. Precious Metals, Jewellery and Plate ..	1,364	2,437	138	370	71	38	4,418
VI. Textiles and Textile Goods ..	26,333	50,781	2,812	5,597	949	3,934	90,406
VII. Skins and Leather ..	10,445	9,078	2,417	473	1,079	399	23,891
VIII. Clothing ..	10,469	13,374	1,320	1,179	814	186	27,342
IX. Food, Drink and Tobacco	117,899	93,486	107,367	29,448	20,209	7,649	376,058
X. Woodworking and Basket- ware ..	52,726	39,619	30,438	11,162	12,070	9,279	155,294
XI. Furniture, Bedding, etc. ..	9,031	8,634	3,100	2,510	1,618	760	25,653
XII. Paper, Stationery, Printing, Bookbinding, etc. ..	31,946	51,792	5,056	7,780	2,946	26,876	126,396
XIII. Rubber ..	22,107	32,368	1,140	638	84	69	56,406
XIV. Musical Instruments ..	872	230	13	8	23	..	1,146
XV. Miscellaneous Products ..	6,586	5,299	119	484	257	178	12,923
Total, Classes I. to XV. ..	805,864	531,820	208,187	155,052	70,550	76,343	1,847,816
XVI. Gas Works ..	8,802	5,058	850	2,548	551	133	17,942
Grand Total ..	814,666	536,878	209,037	157,600	71,101	76,476	1,865,758

(a) Excludes Central Electric Stations.

4. Capacity of Engines and Generators installed in Central Electric Stations.—
 (i) According to Type in Australia. Particulars of the type and the capacity of engines and generators installed in Central Electric Stations in Australia in 1941-42 are given in the following table:—

CENTRAL ELECTRIC STATIONS : POWER EQUIPMENT, AUSTRALIA, 1941-42.

Particulars.	Capacity of Engines and Generators.						
	Steam.		Internal Combustion.			Water.	Total.
	Recipro- cating.	Turbine.	Gas.	Light Oils.	Heavy Oils.		
Engines installed— Total installed Rated H.P.	28,895	2,107,621	20,996	592	162,342	246,487	2,566,933
Generators installed— Kilowatt capacity— Total installed .. K.W.	19,082	1,490,970	13,503	700	105,701	181,956	1,811,912
Effective capacity ..	16,477	1,334,010	11,824	650	97,874	156,840	1,617,675
Maximum load ..	11,321	1,148,196	9,860	462	71,830	159,869	1,401,538
Horse-power equivalent— Total installed .. H.P.	25,580	1,998,720	18,101	938	141,608	243,921	2,428,958
Effective capacity ..	22,088	1,788,307	15,851	871	131,205	210,252	2,168,574
Maximum load ..	15,176	1,539,214	13,218	610	96,292	214,312	1,878,831

(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 1941-42.

CENTRAL ELECTRIC STATIONS : POWER EQUIPMENT, 1941-42.

Particulars.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Engines installed Rated H.P.	1,116,649	601,975	255,035	202,105	228,192	162,977	2,566,933
Generators installed— Kilowatt capacity— Total installed .. K.W.	812,310	417,027	171,540	144,060	111,795	125,180	1,811,912
Effective capacity ..	738,533	409,312	134,745	143,451	99,884	100,750	1,617,675
Maximum load ..	608,248	386,984	99,690	119,618	72,108	114,690	1,401,538
Horse-power equivalent— Total installed .. H.P.	1,129,159	559,045	229,058	193,119	119,867	157,810	2,428,958
Effective capacity ..	990,041	536,639	180,632	192,303	133,899	135,069	2,168,574
Maximum load ..	815,386	518,771	133,908	160,554	96,664	153,748	1,878,831

§ 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, 1932-33 to 1941-42.* Particulars of the number employed, the increase in employment and the rate per cent. of such increase are given for years 1932-33 to 1941-42, in the following table :—

FACTORIES : EMPLOYMENT, AUSTRALIA.

Year.	Males.			Females.			Persons.		
	Number Employed.	Increase on previous year.	Rate per cent. on previous year.	Number Employed.	Increase on previous year.	Rate per cent. on previous year.	Number Employed.	Increase on previous year.	Rate per cent. on previous year.
1932-33 ..	No. 261,515	No. 23,600	% 9.92	No. 109,212	No. 10,469	% 10.60	No. 370,727	No. 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	43,639	10.76
1935-36 ..	356,554	34,089	10.57	136,217	9,084	7.15	492,771	43,173	9.60
1936-37 ..	381,412	24,858	6.97	142,536	6,319	4.64	523,948	31,177	6.33
1937-38 ..	408,602	27,190	7.13	150,558	8,022	5.63	559,160	35,212	6.72
1938-39 ..	412,591	3,989	0.98	152,515	1,957	1.30	565,106	5,946	1.06
1939-40 ..	426,934	14,343	3.48	160,729	8,214	5.39	587,663	22,557	3.99
1940-41 ..	473,058	46,124	10.80	177,015	16,286	10.13	650,073	62,410	10.62
1941-42 ..	524,383	51,325	10.85	200,959	23,944	13.53	725,342	75,269	11.58

(iii) *States, 1937-38 to 1941-42.* The following table shows, for each year from 1937-38 to 1941-42, (a) the average number of persons (including both sexes of all ages) engaged in manufacturing industries in each State; (b) for each State, the percentage of the total number engaged in Australia; and (c) the number engaged per ten thousand of the mean population in each State and Australia.

FACTORIES : EMPLOYMENT.

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

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
1940-41 ..	265,751	237,636	57,269	50,844	22,734	15,839	650,073
1941-42 ..	298,245	258,400	61,909	65,252	23,980	17,556	725,342

PERCENTAGE ON AUSTRALIAN TOTAL.

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
1940-41 ..	40.88	36.56	8.81	7.82	3.50	2.43	100.00
1941-42 ..	41.11	35.62	8.54	9.00	3.31	2.42	100.00

FACTORIES: EMPLOYMENT—continued.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
PER 10,000 OF POPULATION.							
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
1940-41 ..	953	1,237	556	850	485	660	920
1941-42 ..	1,060	1,322	598	1,078	512	733	1,016

2. **Rates of Increase, 1937-38 to 1941-42.**—The percentage increase on the average number of persons engaged in the preceding year is shown below for each State from 1937-38 to 1941-42 :—

FACTORIES: ANNUAL PERCENTAGE INCREASE OF PERSONS ENGAGED.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
	%	%	%	%	%	%	%
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
1940-41 ..	12.14	11.85	3.11	12.86	-1.01	7.97	10.62
1941-42 ..	12.23	8.74	8.10	28.35	5.48	10.84	11.58

NOTE.—Minus sign (—) indicates decrease.

3. **Persons Engaged in Classes of Industry.**—(i) *Australia.* The following table gives the average number of persons engaged in factories under each industrial group in Australia for the years 1937-38 to 1941-42 :—

FACTORIES: PERSONS ENGAGED IN INDUSTRIAL CLASSES, AUSTRALIA.

Class of Industry.	1937-38.	1938-39.	1939-40.	1940-41.	1941-42.
I. Treatment of Non-metalliferous Mine and Quarry Products	9,952	10,343	10,042	10,554	9,970
II. Bricks, Pottery, Glass, etc. ..	15,142	15,709	15,149	16,159	15,126
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease	18,835	19,816	23,779	32,528	47,019
IV. Industrial Metals, Machines, Implements and Conveyances	178,019	177,677	184,469	221,075	276,113
V. Precious Metals, Jewellery and Plate	3,761	3,726	3,886	4,046	3,708
VI. Textiles and Textile Goods	45,224	46,082	50,973	57,319	60,482
VII. Skins and Leather	10,437	10,767	11,490	12,737	12,629
VIII. Clothing	85,371	86,092	87,728	89,042	88,684
IX. Food, Drink and Tobacco	81,785	83,846	87,046	91,500	94,928
X. Woodworking and Basketware	31,117	30,739	31,615	33,851	35,129
XI. Furniture, Bedding, etc.	15,612	15,287	14,655	14,827	13,331
XII. Paper, Stationery, Printing, Book-binding, etc.	39,062	39,913	40,434	40,090	38,710
XIII. Rubber	7,534	7,502	7,843	8,431	9,022
XIV. Musical Instruments	441	451	474	524	532
XV. Miscellaneous Products	7,798	7,727	8,325	9,212	11,443
Total, Classes I. to XV. ..	550,090	555,677	577,908	641,895	716,826
XVI. Heat, Light and Power	9,070	9,429	9,755	8,178	8,516
Grand Total ..	559,160	565,106	587,663	650,073	725,342

From the employment levels reached in 1938-39 all industries, except "Furniture, Bedding, etc.," "Heat, Light and Power," have shown increases in the number employed until 1941-42 when the transfer of man-power to the more essential industries

became apparent. The greatest actual gain was 98,000 persons in "Industrial Metals, etc.", while the greatest relative gain was in "Chemicals, Dyes, etc." where the number engaged increased by 137 per cent.

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

FACTORIES : PERSONS ENGAGED IN INDUSTRIAL CLASSES, 1941-42.

Class of Industry.	N.S.W.	Vic.	Q'land.	S.A.	W.A.	Tas.	Aust.
I. Treatment of Non-metalliferous Mine and Quarry Products ..	4,448	2,742	882	894	596	408	9,970
II. Bricks, Pottery, Glass, etc. ..	8,405	4,193	759	1,110	497	162	15,126
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease ..	10,593	24,961	1,577	8,850	925	113	47,019
IV. Industrial Metals, Machines, Implements and Conveyances ..	132,444	82,010	17,900	31,245	7,779	4,735	276,113
V. Precious Metals, Jewellery and Plate ..	1,016	2,238	175	186	78	15	3,708
VI. Textiles and Textile Goods ..	21,049	31,309	1,591	2,560	778	3,195	60,482
VII. Skins and Leather ..	5,618	4,566	1,140	633	490	182	12,629
VIII. Clothing ..	34,367	38,151	6,976	5,412	3,104	674	88,684
IX. Food, Drink and Tobacco ..	32,055	31,052	16,996	7,304	4,145	3,376	94,928
X. Woodworking and Basketware ..	12,132	8,926	7,237	2,222	2,435	2,177	35,129
XI. Furniture, Bedding, etc. ..	5,350	4,286	1,505	1,117	659	354	13,331
XII. Paper, Stationery, Printing, Bookbinding, etc. ..	17,155	13,099	3,171	2,099	1,408	1,778	38,710
XIII. Rubber ..	4,140	3,854	697	194	76	61	9,022
XIV. Musical Instruments ..	307	132	35	35	23	..	532
XV. Miscellaneous Products ..	5,692	4,503	338	472	272	167	11,443
Total, Classes I. to XV.	294,770	256,022	61,039	64,333	23,265	17,397	716,826
XVI. Heat, Light and Power ..	3,475	2,378	870	919	715	159	8,516
Grand Total ..	298,245	258,400	61,909	65,252	23,980	17,556	725,342

4. *Persons Engaged According to Nature of Employment.*—(i) *General.* In the following table the average number of persons engaged in the States during 1941-42 are classified according to the nature of their employment:—

PERSONS ENGAGED : NATURE OF EMPLOYMENT, 1941-42.

State.	Average Number of Persons Engaged.						Total.
	Working Proprietors.	Managers and Overseers.	Accountants and Clerks.	Engine-drivers and Firemen.	Workers, Skilled & Unskilled. (a)	Carters, Messengers and Others.	
New South Wales ..	8,129	10,333	20,283	3,652	253,684	2,164	298,245
Victoria ..	7,399	8,738	15,478	2,102	222,492	2,191	258,400
Queensland ..	2,130	2,174	3,969	1,805	50,756	1,075	61,909
South Australia ..	1,549	2,094	4,967	513	55,035	494	65,252
Western Australia ..	1,074	978	1,374	515	19,743	296	23,980
Tasmania ..	622	828	1,088	318	14,552	148	17,556
Australia ..	20,903	25,145	47,159	8,905	616,862	6,368	725,342

(a) Includes 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 employed by 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.
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
1940-41	164	173	9	6	4	7	363
1941-42	469	191	10	17	4	11	702

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

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

5. Monthly Employment, 1938-39 to 1942-43.—The 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 1938-39 to 1942-43.

FACTORIES : MONTHLY EMPLOYMENT. AUSTRALIA.

Month.	1938-39.	1939-40.	1940-41.	1941-42.	1942-43.
MALES.					
July	387,693	391,470	421,089	490,902	513,162
August	389,979	393,076	427,112	494,850	514,096
September	391,576	395,446	434,217	499,050	515,149
October	393,977	404,730	438,885	504,981	516,056
November	395,192	409,933	448,281	509,788	516,918
December	394,438	412,509	454,126	510,778	516,834
January	385,742	407,380	451,616	503,012	516,844
February	392,056	409,120	460,459	505,247	518,768
March	395,146	413,524	471,038	508,998	521,302
April	391,005	412,465	468,684	509,635	521,975
May	393,609	407,379	478,905	509,506	520,966
June	390,973	413,157	482,522	508,994	520,679
Mean	391,780	405,849	453,078	504,645	517,729
FEMALES.					
July	147,282	148,252	162,419	187,842	212,392
August	149,294	150,966	165,414	190,269	213,100
September	151,159	153,129	169,027	187,555	214,123
October	152,473	157,054	172,079	195,690	216,418
November	152,806	159,323	174,499	198,168	218,026
December	151,165	158,182	176,536	198,704	220,328
January	141,853	155,328	172,147	195,851	220,838
February	151,883	161,744	179,065	201,727	223,988
March	154,854	165,672	182,128	204,725	227,681
April	152,614	164,409	179,948	204,892	229,748
May	150,693	162,144	181,462	205,860	228,203
June	148,601	160,408	183,230	206,035	228,600
Mean	150,390	158,051	174,830	198,110	221,120

FACTORIES: MONTHLY EMPLOYMENT, AUSTRALIA—*continued.*

Month.	1938-39.	1939-40.	1940-41.	1941-42.	1942-43.
PERSONS.					
July	534,975	539,722	583,508	678,744	725,554
August	539,273	544,042	592,526	685,119	727,196
September	542,735	548,575	603,244	686,605	729,272
October	546,450	561,784	610,964	700,671	732,474
November	547,998	569,256	622,780	707,956	734,944
December	545,603	570,691	630,662	709,482	737,162
January	527,595	562,708	623,763	698,863	737,582
February	543,939	570,864	639,524	706,974	742,756
March	550,000	579,196	653,166	713,723	748,983
April	543,619	576,874	648,632	714,527	751,723
May	544,302	569,523	660,367	715,366	749,169
June	539,574	573,565	665,752	715,029	749,279
Mean	542,170	563,900	627,908	702,755	738,849

6. Distribution of Employees According to Age.—(i) *States.* The extension of statistics of employment in factories, decided upon at the Conference of Australian Statisticians held in March, 1937, now permits of a distribution of employees (excluding working proprietors) into three age-groups. The particulars are collected in June of each year and details showing the number employed in each age-group in June, 1942, are given below :—

FACTORIES: DISTRIBUTION OF EMPLOYEES ACCORDING TO AGE, JUNE, 1942.
(Excluding Working Proprietors.)

State.	Under 16 Years.		16 and under 21 Years.		Adults.		Total.	
	No.	%	No.	%	No.	%	No.	%
New South Wales ..	9,793	3.33	57,537	19.57	226,626	77.10	293,956	100
Victoria	9,212	3.69	40,939	16.40	199,532	79.91	249,683	100
Queensland	4,029	6.55	13,375	21.73	44,132	71.72	61,536	100
South Australia ..	2,873	4.14	11,958	17.22	54,605	78.64	69,436	100
Western Australia ..	1,336	5.74	5,271	22.63	16,684	71.63	23,291	100
Tasmania	925	5.40	2,985	17.43	13,217	77.17	17,127	100
Australia	28,168	3.94	132,065	18.47	554,796	77.59	715,029	100

(ii) *Australia.* The following table shows the same age distribution in sexes for Australia since 1938 :—

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

In June.	Under 16 Years.		16 and under 21 Years.		Adults.		Total.	
	No.	%	No.	%	No.	%	No.	%
MALES.								
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
1941	16,871	3.50	86,296	17.88	379,355	78.62	482,522	100
1942	16,135	3.17	68,507	13.46	424,352	83.37	508,994	100

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

In June.	Under 16 Years.		16 and under 21 Years.		Adults.		Total.	
	No.	%	No.	%	No.	%	No.	%
FEMALES.								
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
1941	15,120	8.25	65,724	35.87	102,386	55.88	183,230	100
1942	12,033	5.84	63,558	30.85	130,444	63.31	206,035	100
PERSONS.								
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
1941	31,991	4.81	152,020	22.83	481,741	72.36	665,752	100
1942	28,168	3.94	132,065	18.47	554,796	77.59	715,029	100

§ 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 about one to two. In the remaining States the ratio was roughly one female engaged to every four males, but the increase of female workers in war-time industry has increased this ratio to just over one to three in all States except Queensland. For Australia as a whole the ratio has decreased slightly and is now about two females to five males.

(ii) *Average Number of Males and Females Engaged, 1937-38 to 1941-42.* The following 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.	1937-38.	1938-39.	1939-40.	1940-41.	1941-42.
MALES.					
New South Wales	164,391	167,172	172,259	194,194	216,856
Victoria	136,160	136,218	143,238	161,880	175,691
Queensland	42,337	43,941	45,026	46,567	49,695
South Australia	36,274	35,406	36,326	40,072	49,918
Western Australia	18,760	18,704	18,331	18,004	18,834
Tasmania	10,680	11,150	11,754	12,341	13,389
Australia	408,602	412,591	426,934	473,058	524,383
FEMALES.					
New South Wales	60,470	61,609	64,715	71,557	81,389
Victoria	65,633	65,613	69,223	75,756	82,709
Queensland	9,782	10,169	10,515	10,702	12,214
South Australia	7,810	7,965	8,724	10,772	15,334
Western Australia	4,373	4,507	4,636	4,730	5,146
Tasmania	2,490	2,652	2,916	3,498	4,167
Australia	150,558	152,515	160,729	177,015	200,959

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.	1936-37— 1937-38.	1937-38— 1938-39.	1938-39— 1939-40.	1939-40— 1940-41.	1940-41— 1941-42.
MALES.					
New South Wales	8.11	1.69	3.04	12.73	11.67
Victoria	5.98	0.04	5.15	13.01	8.53
Queensland	8.64	3.79	2.47	3.42	6.72
South Australia	8.60	— 2.39	2.60	10.31	24.57
Western Australia	1.59	— 0.30	— 1.99	— 1.78	4.61
Tasmania	6.22	4.40	5.42	4.99	8.49
Total	7.13	0.98	3.48	10.80	10.85
FEMALES.					
New South Wales	7.15	1.88	5.04	10.57	13.74
Victoria	4.30	— 0.03	5.50	9.44	9.18
Queensland	5.80	3.96	3.40	1.78	14.13
South Australia	6.84	1.98	9.53	23.48	42.35
Western Australia	3.02	3.06	2.86	2.03	8.79
Tasmania	4.80	6.51	9.95	19.96	19.13
Total	5.63	1.30	5.39	10.13	13.53

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

3. Masculinity of Persons Engaged in Factories.—The extent to which females are engaged in the factories of Australia may perhaps be more clearly shown by giving the masculinity of persons engaged in each State. The following table shows particulars for the years 1937-38 to 1941-42 :—

FACTORIES : MASCULINITY(a) OF PERSONS ENGAGED.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
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
1940-41	271	214	435	372	381	353	267
1941-42	266	212	407	326	366	321	261

(a) Number of males per 100 females.

For a number of years prior to 1926-27 there were on the average 300 males engaged in factories for every 100 females, but in that year the proportion of males began to fall with the increasing activity in the clothing and textile industries, in which the number of females to males is relatively high. As these trades were not so seriously affected by the depression as the heavier industries, the proportion of males continued to fall, until in 1932-33 there were only 239 males engaged to every 100 females. With the recovery of employment in the heavier industries subsequent to that year, the proportion of males per 100 females had increased to 271 in 1937-38, but fell again to 261 in 1941-42.

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

4. **Employment of Females in Particular Industries.**—(i) *General.* The greater number of females in manufacturing industries are engaged in four classes, namely:—IV., Industrial Metals, Machines, etc.; VI., Textiles; VIII., Clothing; and IX., Food, Drink and Tobacco. In 1941-42 these industries accounted for 76.84 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 158 females to every 100 males and in Class VIII., Clothing, with 296 females per 100 males. The following tables show the average number of males and females engaged in each of these classes in 1941-42:—

MALES AND FEMALES ENGAGED IN PARTICULAR INDUSTRIES, 1941-42.

Class.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
MALES.							
IV. Industrial Metals, etc. ..	120,465	74,800	17,192	28,031	7,488	4,553	252,619
VI. Textiles and Textile Goods ..	7,471	12,313	600	1,376	379	1,332	23,471
VIII. Clothing ..	8,689	10,095	1,417	1,244	708	231	22,384
IX. Food, Drink and Tobacco ..	20,063	21,756	14,686	5,483	3,030	2,291	67,309
All Other Classes ..	60,168	56,637	15,800	13,784	7,229	4,982	158,600
Total ..	216,856	175,691	49,695	49,918	18,334	13,389	524,383
FEMALES							
IV. Industrial Metals, etc. ..	11,979	7,120	708	3,214	291	182	23,494
VI. Textiles and Textile Goods ..	13,578	18,996	991	1,184	399	1,863	37,011
VIII. Clothing ..	25,678	28,056	5,559	4,168	2,396	443	66,300
IX. Food, Drink and Tobacco ..	11,992	9,296	2,310	1,821	1,115	1,085	27,619
All Other Classes ..	18,162	19,241	2,646	4,947	945	594	46,533
Total ..	81,389	82,709	12,214	15,334	5,146	4,167	200,959

(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., 1941-42.

Industry.	New South Wales.			Victoria.			Other States.		
	Males.	Females.	Femini- nity. (a)	Males.	Females.	Femini- nity. (a)	Males.	Females.	Femini- nity. (a)
Tailoring and Ready-made Clothing ..	1,985	11,349	572	1,780	6,907	388	1,099	5,258	478
Waterproof and Oil-skin Clothing ..	6	51	850	98	368	376	4	17	425
Dressmaking ..	31	1,504	4,852	576	7,639	1,326	64	2,413	3,770
Millinery ..	123	1,173	954	90	970	1,078	43	638	1,484
Shirts, Collars and Underclothing ..	364	4,425	1,216	278	3,406	1,225	154	2,113	1,372
Stays and Corsets ..	58	604	1,145	110	771	701	13	129	992
Handkerchiefs, Ties and Scarves ..	91	843	926	31	300	968	..	..	..
Hats and Caps ..	672	877	131	614	834	136	31	201	648
Gloves ..	29	114	393	98	330	337	..	..	..
Boots and Shoes ..	3,009	3,235	108	4,760	5,054	106	1,351	1,119	83
Boot Repairing (in- cluding Bespoke Work) ..	1,106	58	5	638	18	3	497	39	8
Boot Accessories ..	240	166	69	160	172	107	4	..	..
Umbrellas and Walk- ing Sticks ..	36	71	197	14	30	214	10	21	210
Dyeworks and Clean- ing (including Re- novating and Repairing) ..	871	549	97	762	842	110	329	616	187
Other ..	68	299	440	86	415	483	1	2	200
Total ..	8,689	25,678	296	10,095	28,056	278	3,600	12,566	349

(a) Number of females per 100 males.

§ 6. Child Labour in Factories.

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

2. **Average Number of Children Engaged, 1938 to 1942.**—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 1940, but declined during the next two years. The following table shows the number of children of each sex employed in manufacturing industries in June of the years 1938 to 1942.

FACTORIES : CHILDREN ENGAGED, JUNE.

State.	1938.	1939.	1940.	1941.	1942.
MALES.					
New South Wales ..	6,032	5,759	6,164	5,901	5,125
Victoria ..	6,017	6,167	6,060	5,775	5,458
Queensland ..	1,835	1,790	2,068	2,113	2,526
South Australia ..	1,424	1,296	1,604	1,732	1,593
Western Australia ..	731	705	694	822	880
Tasmania ..	441	392	487	528	553
Australia ..	16,480	16,109	17,077	16,871	16,135
FEMALES.					
New South Wales ..	7,499	7,084	7,594	6,799	4,668
Victoria ..	5,279	5,005	5,276	4,604	3,754
Queensland ..	1,338	1,334	1,379	1,325	1,503
South Australia ..	1,050	1,053	1,303	1,363	1,280
Western Australia ..	450	521	507	553	456
Tasmania ..	359	500	417	416	372
Australia ..	15,975	15,497	16,476	15,120	12,033
TOTAL.					
New South Wales ..	13,531	12,843	13,758	12,700	9,793
Victoria ..	11,296	11,172	11,336	10,439	9,212
Queensland ..	3,173	3,124	3,447	3,438	4,029
South Australia ..	2,474	2,349	2,907	3,095	2,873
Western Australia ..	1,181	1,226	1,201	1,375	1,336
Tasmania ..	800	892	904	944	925
Australia ..	32,455	31,606	33,553	31,991	28,168

3. **Percentage of Children on Total Number of Persons Engaged.**—The following table shows the percentage of children on the total number of persons engaged in the various States for June of each of the five years 1938-1942. In 1942 the percentage was highest in Queensland and lowest in New South Wales.

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

State.	June.				
	1938.	1939.	1940.	1941.	1942.
	%	%	%	%	%
New South Wales ..	6.16	5.85	5.96	4.64	3.33
Victoria ..	5.83	5.81	5.44	4.32	3.69
Queensland ..	6.27	6.01	6.37	6.26	6.55
South Australia ..	5.96	5.78	6.60	5.48	4.14
Western Australia ..	5.35	5.61	5.54	6.17	5.74
Tasmania ..	6.40	6.78	6.15	5.68	5.40
Australia ..	6.01	5.86	5.85	4.81	3.94

4. Industries Employing Child Labour.—The distribution of children employed in factories in June, 1942, 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, 1942.

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 ..	151	8	8,505	353	1.78	2.27
II. Bricks, Pottery, Glass, etc. ..	345	45	10,766	1,331	3.20	3.38
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease ..	396	484	32,693	20,744	1.21	2.33
IV. Industrial Metals, Machines, Implements and Conveyances	7,517	1,006	264,007	30,011	2.85	3.35
V. Precious Metals, Jewellery and Plate ..	144	39	2,161	792	6.66	4.92
VI. Textiles and Textile Goods ..	1,101	2,434	22,017	36,897	5.00	6.60
VII. Skins and Leather ..	242	301	8,475	2,931	2.86	10.27
VIII. Clothing ..	854	4,752	17,616	62,684	4.85	7.58
IX. Food, Drink and Tobacco ..	1,921	1,575	62,336	26,999	3.08	5.83
X. Woodworking and Basketware	1,310	72	29,814	1,464	4.39	4.92
XI. Furniture, Bedding, etc. ..	590	116	7,734	2,407	7.63	4.70
XII. Paper, Stationery, Printing, Bookbinding, etc. ..	1,072	942	22,259	12,592	4.82	7.48
XIII. Rubber ..	87	44	4,983	2,443	1.75	1.80
XIV. Musical Instruments ..	17	9	299	118	5.69	7.63
XV. Miscellaneous Products ..	333	202	6,839	4,110	4.87	4.91
Total, Classes I. to XV. ..	16,080	12,029	500,504	205,936	3.21	5.84
XVI. Heat, Light and Power ..	55	4	8,490	99	0.65	4.04
Grand Total ..	16,135	12,033	508,994	206,035	3.17	5.84

(a) Excludes Working Proprietors.

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

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

NOTE.—In all tables relating to Salaries and Wages paid in Factories the amounts drawn by working proprietors are excluded.

1. **General.**—The importance of the manufacturing industries of Australia is indicated by the fact that the total value of the output for 1941-42 was £773,058,971, of which amount £433,160,480 represented the value of the materials used, including containers, etc., tools replaced and repairs to plant and buildings, and £23,459,463 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 £316,439,028 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 1941-42 was £180,052,212. This figure, which excludes amounts drawn by working proprietors, shows an increase of £42,133,144 or 30.5 per cent. on that for the previous year.

2. **Salaries and Wages Paid.**—(i) *In Classes of Industry, 1941-42.* 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, 1941-42.

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
	£	£	£	£	£	£	£
I. Treatment of Non-metalliferous Mine and Quarry Products ..	1,295,664	765,670	210,979	219,804	129,636	103,817	2,725,570
II. Bricks, Pottery, Glass etc. ..	2,144,828	1,058,572	164,408	267,663	108,936	29,840	3,774,247
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease ..	2,537,236	7,116,497	383,386	2,386,775	242,449	22,107	12,688,450
IV. Industrial Metals, Machines, Implements and Conveyances ..	10,133,895	24,441,295	4,834,681	8,817,274	2,073,030	1,240,146	81,540,321
V. Precious Metals, Jewellery and Plate ..	224,470	523,678	30,242	30,974	15,800	2,155	827,319
VI. Textiles and Textile Goods ..	3,818,703	6,270,816	231,778	549,780	136,019	562,566	11,599,662
VII. Skins and Leather ..	1,332,994	1,139,160	268,518	109,811	107,980	46,535	3,004,998
VIII. Clothing ..	5,498,677	6,521,393	916,409	750,305	411,059	91,355	14,189,198
IX. Food, Drink and Tobacco ..	7,203,909	7,494,050	4,510,351	1,516,156	955,268	625,512	22,335,246
X. Woodworking and Basketware ..	2,801,768	2,206,725	1,471,441	506,407	581,560	421,628	7,929,529
XI. Furniture, Bedding, etc. ..	1,252,802	901,619	327,087	215,269	129,211	58,974	2,885,962
XII. Paper, Stationery, Printing, Book-binding, etc. ..	4,022,670	3,068,334	686,451	446,694	320,034	138,451	8,982,634
XIII. Rubber ..	1,007,144	1,061,827	112,899	35,086	11,607	7,817	2,326,380
XIV. Musical Instruments ..	76,156	32,002	8,704	5,645	..	..	128,152
XV. Miscellaneous Products ..	1,127,036	985,759	49,098	78,060	42,555	23,084	2,305,601
Total, Classes I. to XV.	74,597,952	63,587,397	14,206,432	15,966,712	5,270,789	3,673,987	177,303,269
XVI. Heat, Light and Power ..	1,159,704	775,880	270,336	267,452	228,779	46,792	2,748,943
Grand Total	75,757,656	64,363,277	14,476,768	16,234,164	5,499,568	3,720,779	180,052,212

(ii) *Totals and Averages, 1937-38 to 1941-42.* 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 1937-38 to 1941-42. The average wage paid is not comparable with that shown in similar tables in issues of the Official Year Book prior to

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

FACTORIES : TOTAL AND AVERAGE SALARIES AND WAGES PAID.

Year.	Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
		£	£	£	£	£	£	£
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
1940-41	Total amount paid . .	57,759,532	49,796,607	12,163,763	10,418,901	4,720,563	3,059,702	137,919,068
	Average per employee	224.34	216.45	221.42	211.70	218.77	201.42	219.38
1941-42	Total amount paid . .	75,757,659	64,363,277	14,476,768	16,234,164	5,499,568	3,720,779	180,052,212
	Average per employee	261.13	256.43	242.17	254.84	240.09	219.72	255.60

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 1941-42 were paid in New South Wales, Victoria and South Australia in that order.

Since 1933-34 the average earnings per employee has risen each year and in 1940-41 and 1941-42 attained a record high level as a result of war-time conditions.

(iii) *Earnings of Males and Females, 1941-42.* 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 1941-42 :—

SALARIES AND WAGES : MALE AND FEMALE FACTORY EMPLOYEES, 1941-42

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
MALES.							
	£	£	£	£	£	£	£
I. Treatment of Non-metalliferous Mine and Quarry Products . .	1,278,356	745,831	206,488	215,186	127,411	102,750	2,676,022
II. Bricks, Pottery, Glass etc. . .	2,041,664	1,003,287	158,790	262,614	105,191	29,093	3,600,639
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease . .	2,048,604	5,534,889	208,905	1,777,032	228,331	20,637	9,908,398
IV. Industrial Metals, Machines, Implements and Conveyances . .	38,422,458	23,371,842	4,752,556	8,411,136	2,037,620	1,218,772	78,214,384
V. Precious Metals, Jewellery and Plate . .	193,250	450,536	27,080	28,051	14,989	2,074	715,980
VI. Textiles and Textile Goods . .	2,040,966	3,521,915	124,601	394,650	87,040	318,517	6,487,689
VII. Skins and Leather . .	1,151,668	982,290	251,134	67,413	97,325	45,355	2,595,185
VIII. Clothing . .	2,107,336	2,574,990	299,986	252,052	147,066	42,840	5,424,270
IX. Food, Drink and Tobacco . .	5,563,715	6,176,750	4,238,326	1,355,605	840,424	516,526	18,691,346
X. Woodworking and Basketware . .	2,717,990	2,160,990	1,436,805	493,447	578,558	415,995	7,803,785
XI. Furniture, Bedding, etc. . .	1,095,071	765,689	304,363	194,544	115,925	55,372	2,530,964
XII. Paper, Stationery, Printing, Book-binding, etc. . .	3,212,645	2,497,772	562,249	366,287	267,222	399,028	7,305,203
XIII. Rubber . .	879,361	874,079	78,221	30,517	10,722	6,959	1,879,859
XIV. Musical Instruments . .	61,031	30,830	8,704	5,268	5,645	..	111,478
XV. Miscellaneous Products . .	883,780	714,973	40,702	61,863	36,715	18,159	1,759,192
Total, Classes I. to XV.	63,697,895	51,406,663	12,788,010	13,918,665	4,700,184	3,192,977	149,704,394
XVI. Heat, Light and Power . .	1,152,220	773,521	270,336	266,822	227,954	46,427	2,737,280
Grand Total . .	64,850,115	52,180,184	13,050,246	14,185,487	4,928,138	3,239,404	152,441,674

SALARIES AND WAGES: MALE AND FEMALE FACTORY EMPLOYEES,
1941-42—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 ..	17,308	19,839	4,491	4,618	2,225	1,067	49,548
II. Bricks, Pottery, Glass, etc. ..	103,164	55,285	5,618	5,049	3,745	747	173,608
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease ..	488,632	1,581,608	84,481	609,743	14,118	1,470	2,780,052
IV. Industrial Metals, Machines, Implements and Conveyances ..	1,711,437	1,069,453	82,125	406,138	35,470	21,374	3,325,937
V. Precious Metals, Jewellery and Plate ..	31,220	73,142	3,162	2,923	811	82	111,339
VI. Textiles and Textile Goods ..	1,807,737	2,748,901	107,177	155,130	48,979	244,049	5,111,073
VII. Skins and Leather ..	181,326	156,870	17,384	42,398	10,655	1,180	409,813
VIII. Clothing ..	3,391,341	3,046,403	616,423	498,253	263,993	48,515	8,764,928
IX. Food, Drink and Tobacco ..	1,640,194	1,317,300	272,025	190,551	114,844	108,986	3,643,900
X. Woodworking and Basketware ..	83,778	45,735	34,536	12,960	3,002	5,633	185,744
XI. Furniture, Bedding, etc. ..	157,731	135,930	22,724	21,725	13,286	3,602	354,998
XII. Paper, Stationery, Printing, Book-binding, etc. ..	810,025	570,562	124,202	80,407	52,812	39,423	1,677,431
XIII. Rubber ..	217,783	187,748	34,678	4,590	885	858	446,521
XIV. Musical Instruments ..	15,125	1,172	..	377	..	..	16,674
XV. Miscellaneous Products ..	243,256	270,786	8,396	13,206	5,840	4,925	546,409
Total, Classes I. to XV.	10,900,057	12,180,734	1,417,522	2,048,047	570,605	481,910	27,598,875
XVI. Heat, Light and Power ..	7,484	2,359	..	630	825	365	11,663
Total ..	10,907,541	12,183,903	1,417,522	2,048,677	571,430	482,275	27,610,538

(iv) Total and Average Earnings of Males and Females, 1937-38 to 1941-42. 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.							
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
1940-41. Amount paid .. £	49,539,287	40,389,071	11,076,635	9,340,490	4,241,954	2,687,453	117,274,890
Per cent. on total ..	85.77	81.11	91.06	89.65	89.86	87.83	85.03
Average per employee .. £	265.35	260.54	249.91	242.30	251.14	220.34	258.77
1941-42. Amount paid .. £	64,850,115	52,180,184	13,059,246	14,185,487	4,928,138	3,238,504	152,441,674
Per cent. on total ..	85.60	81.07	90.21	87.38	89.61	87.04	84.67
Average per employee .. £	309.85	308.76	274.06	292.63	276.88	253.09	301.86

TOTAL AND AVERAGE SALARIES AND WAGES: MALES AND FEMALES

—continued.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
FEMALES.							
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	456,407	282,107	17,212,493
Per cent. on total ..	14.44	19.65	9.00	9.17	9.98	10.50	15.03
Average per employee £	107.20	113.55	98.71	90.85	99.45	97.41	108.09
1940-41. Amount paid .. £	8,220,245	9,407,536	1,087,128	1,078,411	478,609	372,249	20,644,178
Per cent. on total ..	14.23	18.89	8.94	10.35	10.14	12.17	14.97
Average per employee £	115.79	125.37	102.43	101.13	102.11	107.18	117.65
1941-42. Amount paid .. £	10,907,541	12,183,093	1,417,522	2,048,677	571,430	482,275	27,610,538
Per cent. on total ..	14.40	18.93	9.79	12.62	10.39	12.96	15.33
Average per employee £	134.96	148.57	116.85	134.47	111.89	116.55	138.44

(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., and those paid to other employees. As previously mentioned, amounts drawn by working proprietors are excluded in all cases:—

SALARIES AND WAGES: MANAGERS, OVERSEERS, ETC., AND OTHER EMPLOYEES, 1941-42.

Class of Industry.	Salaries and Wages Paid to—						
	Managers, Overseers, Accountants and Clerks.		All Other Employees.		All Employees.		Total.
	Males.	Females.	Males.	Females.	Males.	Females.	
	£	£	£	£	£	£	£
I. Treatment of Non-metalliferous Mine and Quarry Products	340,059	39,937	2,335,963	9,611	2,676,022	49,548	2,725,570
II. Bricks, Pottery, Glass, etc.	384,565	51,932	3,216,074	121,676	3,600,639	173,608	3,774,247
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease	1,339,305	332,689	8,569,090	7,147,363	9,908,398	2,780,052	12,688,450
IV. Industrial Metals, Machines, Implements and Conveyances	8,837,061	1,313,301	69,377,323	2,012,636	78,214,384	3,325,937	81,540,321
V. Precious Metals, Jewellery and Plate	72,072	25,703	643,908	85,636	715,980	111,339	827,319
VI. Textiles and Textile Goods	1,043,513	272,458	5,444,176	4,839,515	6,487,689	5,111,973	11,599,662
VII. Skins and Leather	286,248	42,076	2,314,937	367,737	2,595,185	409,813	3,004,998
VIII. Clothing	737,216	457,526	4,667,054	8,307,402	5,424,270	8,704,928	14,189,198
IX. Food, Drink, and Tobacco	3,123,402	677,765	15,567,944	2,966,135	18,691,346	3,643,900	22,335,246
X. Woodworking and Basketware	765,656	124,503	7,038,129	61,211	7,803,785	185,744	7,989,529
XI. Furniture, Bedding, etc.	235,433	74,805	2,295,531	280,193	2,530,964	354,998	2,885,962
XII. Paper, Stationery, Printing, Book-binding, etc.	1,312,295	375,830	5,992,905	1,301,601	7,305,203	1,677,431	8,982,634
XIII. Rubber	336,502	71,907	1,543,357	374,614	1,879,859	446,521	2,326,380
XIV. Musical Instruments	19,793	6,270	92,685	10,404	111,478	16,674	128,152
XV. Miscellaneous Products	257,130	81,304	1,501,756	465,125	1,759,192	546,409	2,305,601
Total, Classes I. to XV.	19,083,562	3,948,006	130,620,832	23,650,869	149,704,394	27,598,875	177,303,269
XVI. Heat, Light and Power	455,152	11,010	2,282,128	653	2,737,280	11,663	2,748,943
Grand Total	19,538,714	3,959,016	132,902,960	23,651,522	152,441,674	27,610,538	180,052,212
Average paid per employee	118.33	154.65	289.99	136.06	391.86	138.44	255.60

3. Power, Fuel and Light Used.—(i) *In Classes of Industry, 1941-42.* The expenditure by factories on power, fuel and light is of considerable importance; in 1941-42 it amounted to £23,459,463, an increase of £3,736,756 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 1941-42 :—

FACTORIES : VALUE OF POWER, FUEL AND LIGHT USED (a), 1941-42.

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
I. Treatment of Non-metalliferous Mine and Quarry Products	£ 394,204	£ 250,753	£ 89,714	£ 78,861	£ 65,840	£ 73,888	£ 953,260
II. Bricks, Pottery, Glass etc.	594,795	412,410	55,073	113,075	46,314	12,227	1,234,894
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease	370,112	603,521	39,524	321,453	55,761	4,488	1,394,859
IV. Industrial Metals, Machines, Implements and Conveyances	5,191,695	1,261,751	303,000	555,849	139,366	292,581	7,744,242
V. Precious Metals, Jewellery and Plate	9,879	19,859	1,137	2,790	140	172	31,277
VI. Textiles and Textile Goods	284,870	552,250	20,413	73,601	8,539	36,450	976,123
VII. Skins and Leather	123,192	98,178	28,415	3,267	13,316	8,539	274,907
VIII. Clothing	146,884	181,908	20,813	22,062	10,538	2,355	385,360
IX. Food, Drink and Tobacco	1,235,078	1,156,932	679,216	302,419	216,123	82,301	3,672,069
X. Woodworking and Basketware	191,254	123,314	76,690	25,916	41,666	28,420	487,260
XI. Furniture, Bedding, etc.	33,544	28,200	8,687	8,526	3,521	1,601	84,079
XII. Paper, Stationery, Printing, Book-binding, etc.	212,858	346,151	33,121	25,792	14,257	159,076	791,255
XIII. Rubber	113,201	181,965	12,076	4,901	1,358	1,146	314,707
XIV. Musical Instruments	5,947	1,294	39	34	43	..	7,357
XV. Miscellaneous Products	53,007	42,441	1,356	3,708	1,131	516	102,159
Total, Classes I. to XV.	8,960,580	5,260,927	1,370,274	1,542,254	618,513	704,260	18,456,808
XVI. Heat, Light and Power	2,268,233	883,652	544,813	523,756	780,715	1,186	5,002,655
Grand Total	11,228,813	6,144,579	1,915,087	2,066,010	1,399,228	705,746	23,459,463

(a) Includes value of lubricants and water.

(ii) *Values of Items, 1941-42.* The following table shows the values of the various items of power, fuel and light used in factories in each State during the year 1941-42 :—

FACTORIES : VALUE OF ITEMS OF POWER, FUEL AND LIGHT USED, 1941-42.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Coal	£ 3,388,158	£ 2,351,826	£ 916,463	£ 731,668	£ 326,088	£ 91,714	£ 7,808,917
Coke	2,934,559	296,435	46,311	89,953	42,387	6,044	2,515,689
Wood	188,691	250,891	161,438	109,579	232,027	105,602	1,048,028
Other (Charcoal, etc.)	216,839	109,126	29,115	73,090	10,233	4,643	442,446
Fuel Oil	985,922	553,809	154,112	208,548	416,628	38,028	2,340,947
Gas	1,011,474	197,085	27,586	70,488	12,048	39,774	1,358,455
Electricity	2,625,350	1,801,741	379,073	630,449	240,977	374,826	6,052,416
Water and Lubricating Oil	777,820	583,666	200,989	160,435	118,810	42,715	1,884,465
Total	11,228,813	6,144,579	1,915,087	2,066,010	1,399,228	705,746	23,459,463

(iii) *Quantities, 1941-42.* The following table shows the quantities of certain items of power, fuel and light used in factories in each State during the year 1941-42 :—

FACTORIES : QUANTITY OF POWER, FUEL AND LIGHT USED, 1941-42.

Particulars.	Unit.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Coal	Ton	3,006,732	4,807,230	575,667	361,314	233,565	59,483	9,043,991
Coke	"	1,697,836	137,772	24,038	38,613	15,710	3,045	1,917,014
Wood	"	208,469	436,286	251,772	113,792	375,295	144,234	1,529,848
Fuel Oil	Gal.	30,238,453	15,051,093	3,151,943	5,354,426	9,701,324	1,028,656	64,525,895

(iv) *Total Value, 1937-38 to 1941-42.*—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.
	£	£	£	£	£	£	£
1937-38	7,123,961	4,032,190	1,440,750	949,858	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
1940-41	9,620,123	5,138,787	1,655,937	1,400,683	1,309,748	597,429	19,722,707
1941-42	11,228,813	6,144,579	1,915,087	2,066,010	1,399,228	705,746	23,459,463

4. *Value of Materials Used.*—(i) *In Classes of Industry, 1941-42.* 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 1941-42 was £433,160,480, representing 56.03 per cent. of the value of the final output (see par. 5). The following table shows the value of the materials used in various classes of industry in each State :—

FACTORIES : VALUE OF MATERIALS USED, 1941-42.

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
	£	£	£	£	£	£	£
I. Treatment of Non-metalliferous Mine and Quarry Products	3,947,205	1,226,639	499,441	301,385	197,924	184,946	6,357,540
II. Bricks, Pottery, Glass, etc.	1,468,166	626,565	69,954	204,009	67,344	28,284	2,464,322
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease	12,494,513	13,365,591	994,234	5,360,403	1,336,968	132,172	33,683,881
IV. Industrial Metals, Machines, Implements and Conveyances	81,247,420	30,755,195	6,519,160	13,428,214	2,145,957	2,035,204	136,131,150
V. Precious Metals, Jewellery and Plate	252,651	551,454	16,832	31,625	12,451	444	865,457
VI. Textiles and Textile Goods	11,631,949	16,209,440	875,808	1,839,233	365,994	1,459,437	32,381,861
VII. Skins and Leather	4,332,193	3,448,309	1,983,002	231,047	276,457	233,739	10,504,747
VIII. Clothing	11,162,994	14,063,063	1,693,078	984,996	732,320	98,235	28,734,686
IX. Food, Drink and Tobacco	40,793,444	41,220,999	31,933,461	8,035,121	5,588,346	2,754,508	130,325,879
X. Woodworking and Basketware	6,377,623	4,269,835	2,929,146	1,362,915	867,336	708,734	16,515,589
XI. Furniture, Bedding, etc.	2,604,669	2,169,773	538,026	422,257	257,819	83,691	6,076,235
XII. Paper, Stationery, Printing, Book-binding, etc.	7,181,740	5,908,220	718,305	540,810	359,665	589,449	15,298,198
XIII. Rubber	2,872,873	3,556,731	299,927	72,406	27,839	16,337	6,846,113
XIV. Musical Instruments	63,215	24,405	2,409	43	786	..	90,858
XV. Miscellaneous Products	1,627,333	1,576,201	63,512	144,884	48,422	14,610	3,474,962
Total, Classes I. to XV.	188,057,988	138,972,420	49,136,295	32,959,357	12,285,628	8,339,790	429,751,478
XVI. Heat, Light and Power	1,411,160	1,226,467	248,329	305,271	166,647	51,128	3,409,002
Grand Total	189,469,148	140,198,887	49,384,624	33,264,628	12,452,275	8,390,918	433,160,480

(ii) *Total Amount, 1937-38 to 1941-42.* 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.
	£	£	£	£	£	£	£
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
1940-41	161,252,339	115,209,347	46,936,189	25,283,544	11,498,304	6,978,120	367,157,852
1941-42	189,469,148	140,198,887	49,384,624	33,264,628	12,452,275	8,390,918	433,160,480

5. Value of Output.—(i) *In Classes of Industry, 1941-42.* The value of the output of new goods manufactured and of repairs effected in factories of various classes in each State in 1941-42 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, 1941-42.

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
	£	£	£	£	£	£	£
I. Treatment of Non-metalliferous Mine and Quarry Products	7,265,911	3,145,439	1,026,423	737,028	512,464	470,527	13,157,792
II. Bricks, Pottery, Glass, etc.	5,400,248	2,886,317	440,806	795,405	278,814	88,705	9,890,295
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease..	21,841,172	25,037,087	1,507,513	9,394,391	1,950,030	176,581	59,906,774
IV. Industrial Metals, Machines, Implements and Conveyances	146,553,109	67,969,927	13,635,464	25,538,503	5,506,875	4,544,436	263,748,314
V. Precious Metals, Jewellery and Plate	663,938	1,351,672	66,077	91,321	38,005	3,731	2,214,744
VI. Textiles and Textile Goods	18,858,285	28,205,495	1,341,061	2,736,904	580,623	2,589,375	54,311,743
VII. Skins and Leather	6,623,130	5,583,322	2,485,528	412,902	499,333	331,712	15,935,927
VIII. Clothing	20,318,554	25,469,702	3,157,967	2,176,732	1,382,459	249,078	52,754,492
IX. Food, Drink and Tobacco	62,200,538	59,291,002	41,851,122	11,483,878	8,168,435	4,067,540	187,152,515
X. Woodworking and Basketware	11,168,515	8,005,131	5,343,336	2,257,597	1,808,055	1,391,656	29,974,290
XI. Furniture, Bedding, etc.	4,635,168	3,891,886	1,046,695	788,424	486,669	174,935	11,023,777
XII. Paper, Stationery, Printing, Book-binding, etc. ..	14,953,481	12,101,259	1,899,543	1,307,348	979,644	1,928,451	33,169,726
XIII. Rubber	4,492,122	5,789,074	486,137	150,494	63,049	41,409	11,022,285
XIV. Musical Instruments	186,152	70,431	17,106	6,665	7,799	..	288,453
XV. Miscellaneous Products	3,772,750	3,194,970	151,485	291,957	122,694	52,550	7,586,406
Total, Classes I. to XV.	329,023,073	251,992,714	74,456,263	58,169,849	22,384,948	16,110,686	752,137,533
XVI. Heat, Light and Power	10,465,239	5,288,366	1,673,787	1,726,644	1,567,086	200,316	20,921,438
Grand Total	339,488,312	257,281,080	76,130,050	59,896,493	23,952,034	16,311,002	773,058,971

(ii) *Total, 1937-38 to 1941-42.* The following table shows the value of output in each State during the five years ended 1941-42 :—

FACTORIES : VALUE OF OUTPUT.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
	£	£	£	£	£	£	£
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
1940-41	285,916,850	209,348,845	70,236,464	43,600,329	21,824,974	13,867,446	644,794,908
1941-42	339,488,312	257,281,080	76,130,050	59,896,493	23,952,034	16,311,002	773,058,971

6. Value of Production.—(i) *In Classes of Industry, 1941-42.* The value of production for any industry was defined at the Conference of Statisticians at Sydney in 1925 as "the value of consumable commodities produced during the year, deducting, so far as possible, the value of goods consumed in process of production".

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

The figure thus calculated is, however, not the net value of production. The deduction for depreciation, particulars of which are shown in § 8, par. 4, was estimated at £16,072,417 for 1941-42. Many miscellaneous expenses, such as insurance and advertising, have not been taken into account. Therefore, it must not be inferred that when wages and salaries are deducted from the value of production, the whole of the "surplus" is available for interest and profit.

The following table shows the value of production in 1941-42 in each State for the various classes of factories :—

FACTORIES : VALUE OF PRODUCTION, 1941-42.

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
	£	£	£	£	£	£	£
I. Treatment of Non-metalliferous Mine and Quarry Products ..	2,924,502	1,668,047	437,268	356,782	248,700	211,693	5,846,992
II. Bricks, Pottery, Glass, etc. ..	3,337,287	1,847,342	314,779	478,321	165,156	48,194	6,191,079
III. Chemicals, Dyes, Explosives, Paints, Oils and Grease ..	8,976,547	11,067,975	473,755	3,712,535	557,301	39,921	24,828,034
IV. Industrial Metals, Machines, Implements and Conveyances ..	60,113,994	35,952,981	6,813,304	11,554,440	3,221,552	2,216,651	119,872,922
V. Precious Metals, Jewellery and Plate ..	401,408	780,359	48,108	56,906	25,114	3,115	1,315,010
VI. Textiles and Textile Goods ..	6,941,466	11,443,805	444,840	824,070	206,090	1,093,488	20,953,759
VII. Skins and Leather ..	2,167,745	2,036,835	474,111	178,588	209,560	89,434	5,156,273
VIII. Clothing ..	9,008,676	11,224,731	1,444,076	1,169,674	639,301	147,988	23,634,446
IX. Food, Drink, and Tobacco ..	20,262,016	16,913,071	9,238,445	3,146,338	2,363,966	1,230,731	53,154,567
X. Woodworking and Basketware ..	4,599,638	3,611,982	2,337,500	868,766	899,053	654,502	12,971,441
XI. Furniture, Bedding, etc. ..	1,996,955	1,693,913	499,982	357,641	225,329	89,643	4,863,463
XII. Paper, Stationery, Printing, Book-binding, etc. ..	7,558,883	5,846,888	1,148,117	740,737	605,722	1,179,926	17,080,273
XIII. Rubber ..	1,505,988	2,050,378	174,134	73,187	33,852	23,926	3,861,465
XIV. Musical Instruments ..	116,990	44,732	14,658	6,888	6,970	..	190,238
XV. Miscellaneous Products ..	2,092,410	1,576,328	86,617	143,365	73,141	37,424	4,009,285
Total, Classes I. to XV.	132,004,505	107,759,367	23,949,694	23,668,238	9,480,807	7,066,636	303,929,247
XVI. Heat, Light and Power ..	6,785,846	3,178,247	880,645	897,617	619,724	147,702	12,509,781
Grand Total ..	138,790,351	110,937,614	24,830,339	24,565,855	10,100,531	7,214,338	316,439,028

(ii) *Total and Averages, 1937-38 to 1941-42.* The value of production and the amount per person engaged and per head of population are shown in the following table for the five years ended 1941-42 :-

FACTORIES : VALUE OF PRODUCTION.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
VALUE.							
	£	£	£	£	£	£	£
1937-38 ..	85,168,133	64,889,390	18,602,958	13,820,155	8,562,294	5,445,094	106,488,024
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
1940-41 ..	115,044,388	89,000,711	21,644,338	16,910,102	9,016,922	6,291,888	257,914,349
1941-42 ..	138,790,351	110,937,614	24,830,339	24,565,855	10,100,531	7,214,338	316,439,028

PER PERSON ENGAGED.

	£	£	£	£	£	£	£
1937-38 ..	379	322	357	313	370	413	351
1938-39 ..	395	327	357	315	378	391	360
1939-40 ..	408	348	378	320	393	426	377
1940-41 ..	433	375	378	333	397	397	397
1941-42 ..	465	420	401	376	421	411	436

PER HEAD OF POPULATION.

	£	£	£	£	£	£	£
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
1940-41 ..	41.26	46.34	21.01	28.29	19.25	26.21	36.49
1941-42 ..	49.35	56.77	23.99	40.60	21.56	30.14	44.34

7. **Value of Output and Cost of Production.**—As the total value of the output for Australia for 1941-42 was estimated at £773,058,971, there remained, after payment of £433,160,480, the value of the materials used, of £180,052,212 for salaries and wages, and of £23,459,463 for power, fuel and light, the sum of £136,386,816 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 1941-42 :-

FACTORIES : VALUE OF OUTPUT AND COST OF PRODUCTION, 1941-42.

State.	Materials Used. (a)	Power, Fuel and Light. (b)	Salaries and Wages.	All other Expenditure, Interest, Profits, etc.	Total Value of Output.
New South Wales	189,469,148	11,228,813	75,757,656	63,032,695	339,488,312
Victoria	140,198,887	6,144,579	64,363,277	46,574,337	257,281,080
Queensland	49,384,624	1,915,087	14,476,768	10,353,571	76,130,050
South Australia	33,264,628	2,066,010	16,234,164	8,331,691	59,896,493
Western Australia	12,452,275	1,399,228	5,499,568	4,600,963	23,952,034
Tasmania	8,390,918	705,746	3,720,779	3,493,559	16,311,002
Australia	433,160,480	23,459,463	180,052,212	136,386,816	773,058,971

VALUE AND COST, ETC.

	£	£	£	£	£
New South Wales	189,469,148	11,228,813	75,757,656	63,032,695	339,488,312
Victoria	140,198,887	6,144,579	64,363,277	46,574,337	257,281,080
Queensland	49,384,624	1,915,087	14,476,768	10,353,571	76,130,050
South Australia	33,264,628	2,066,010	16,234,164	8,331,691	59,896,493
Western Australia	12,452,275	1,399,228	5,499,568	4,600,963	23,952,034
Tasmania	8,390,918	705,746	3,720,779	3,493,559	16,311,002
Australia	433,160,480	23,459,463	180,052,212	136,386,816	773,058,971

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

FACTORIES: VALUE OF OUTPUT AND COST OF PRODUCTION, 1941-42—
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 ..	55.81	3.31	22.31	18.57	100.00
Victoria ..	54.49	2.39	25.02	18.10	100.00
Queensland ..	64.87	2.51	19.02	13.60	100.00
South Australia ..	55.54	3.45	27.10	13.91	100.00
Western Australia ..	51.99	5.84	22.96	19.21	100.00
Tasmania ..	51.44	4.33	22.81	21.42	100.00
Australia ..	56.03	3.04	23.29	17.64	100.00

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

§ 8. Value of Land, Buildings, Plant and Machinery.

1. General.—The following statement shows the value of land and buildings and of plant and machinery used in connexion with manufacturing industries during the year 1941-42:—

FACTORIES: VALUE OF LAND, BUILDINGS, PLANT AND MACHINERY, 1941-42.

Value of—	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
	£	£	£	£	£	£	£
Land and buildings	65,015,509	50,091,565	13,082,394	16,665,829	7,093,250	4,384,553	156,333,100
Plant and machinery	70,611,613	48,065,805	18,771,893	16,808,122	7,309,560	7,612,799	169,179,792
Total ..	135,627,122	98,157,370	31,854,287	33,473,951	14,402,810	11,997,352	325,512,892

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, 1937-38 to 1941-42. The following table shows for Australia as a whole the approximate value of land and buildings occupied in connexion with manufacturing industries from 1937-38 to 1941-42:—

FACTORIES : VALUE OF LAND AND BUILDINGS, AUSTRALIA.

Class of Industry.	1937-38.	1938-39.	1939-40.	1940-41.	1941-42.
	£	£	£	£	£
I. Treatment of Non-metaliferous Mine and Quarry Products ..	2,728,772	2,778,746	2,806,373	2,762,942	2,732,566
II. Bricks, Pottery, Glass, etc.	2,790,201	2,953,557	3,129,389	3,178,748	3,223,865
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease ..	6,843,335	7,377,551	8,387,491	10,461,634	17,220,487
IV. Industrial Metals, Machines, Implements and Conveyances ..	32,420,428	34,841,028	35,853,507	39,329,041	42,677,884
V. Precious Metals, Jewellery and Plate ..	616,934	633,009	644,060	688,703	642,390
VI. Textiles and Textile Goods ..	5,754,347	5,999,671	6,432,183	6,892,471	7,591,893
VII. Skins and Leather ..	1,990,431	2,095,886	2,134,185	2,225,791	2,269,186
VIII. Clothing ..	10,350,944	10,623,619	10,650,856	11,035,281	11,244,302
IX. Food, Drink and Tobacco ..	31,953,396	33,273,248	34,136,115	35,325,688	35,999,042
X. Woodworking and Basketware ..	3,904,773	4,106,963	4,297,248	4,425,422	4,639,596
XI. Furniture, Bedding, etc.	2,440,997	2,533,254	2,562,861	2,653,043	2,543,193
XII. Paper, Stationery, Printing, Bookbinding, etc.	9,956,433	10,639,315	10,945,294	11,514,735	11,519,651
XIII. Rubber ..	1,790,590	1,676,043	1,708,386	1,699,243	1,738,699
XIV. Musical Instruments ..	98,947	104,838	108,594	134,454	145,275
XV. Miscellaneous Products ..	1,396,321	1,432,857	1,535,993	1,620,870	1,981,221
Total, Classes I. to XV.	115,036,919	121,069,585	125,332,535	133,948,126	146,169,250
XVI. Heat, Light and Power ..	9,597,095	9,850,829	10,032,571	10,145,530	10,163,850
Grand Total ..	124,634,014	130,920,414	135,365,106	144,093,656	156,333,100

(ii) *In Classes of Industry in States, 1941-42.* The following table gives particulars of the various classes of industry in each State.

FACTORIES : VALUE OF LAND AND BUILDINGS, 1941-42.

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
	£	£	£	£	£	£	£
I. Treatment of Non-metaliferous Mine and Quarry Products ..	1,362,596	765,870	190,619	179,850	83,298	150,333	2,732,566
II. Bricks, Pottery, Glass, etc.	2,036,409	788,774	124,522	159,794	95,242	19,124	3,223,865
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease ..	3,493,281	5,390,003	778,962	6,768,743	686,872	102,626	17,220,487
IV. Industrial Metals, Machines, Implements and Conveyances ..	21,249,283	12,528,965	2,367,577	3,527,069	1,934,324	1,070,666	42,677,884
V. Precious Metals, Jewellery and Plate ..	224,679	312,673	25,478	43,315	28,755	7,490	642,390
VI. Textiles and Textile Goods ..	2,651,511	4,061,668	118,334	357,044	94,871	308,465	7,591,893
VII. Skins and Leather ..	946,800	979,948	128,470	73,368	112,872	27,728	2,269,186
VIII. Clothing ..	4,902,516	4,653,326	562,821	560,659	456,105	108,875	11,244,302
IX. Food, Drink and Tobacco ..	13,213,619	10,603,138	6,137,718	2,883,991	2,040,202	1,120,374	35,999,042
X. Woodworking and Basketware ..	2,143,659	1,170,311	503,919	365,345	279,084	177,278	4,639,596
XI. Furniture, Bedding, etc.	996,585	926,714	275,485	157,934	135,546	50,929	2,543,193
XII. Paper, Stationery, Printing, Bookbinding, etc.	4,705,065	3,844,621	952,604	786,316	537,101	693,944	11,519,651
XIII. Rubber ..	771,459	721,576	116,139	59,834	39,765	29,926	1,738,699
XIV. Musical Instruments ..	71,011	59,704	7,460	390	6,710	..	145,275
XV. Miscellaneous Products ..	960,179	793,432	53,300	102,576	49,140	22,594	1,981,221
Total, Classes I. to XV.	59,728,652	47,600,723	12,343,408	16,026,228	6,579,887	3,890,352	146,169,250
XVI. Heat, Light and Power ..	5,286,857	2,490,842	738,986	639,601	513,363	494,201	10,163,850
Grand Total ..	65,015,509	50,091,565	13,082,394	16,665,829	7,093,250	4,384,553	156,333,100

(iii) *Totals in each State.*—The following table shows the value of land and buildings in each State from 1937-38 to 1941-42 :—

FACTORIES : VALUE OF LAND AND BUILDINGS.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
	£	£	£	£	£	£	£
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	12,450,458	9,539,249	6,863,468	3,775,605	135,365,106
1940-41 ..	61,880,528	47,092,751	12,594,215	11,480,505	6,802,488	4,237,169	144,093,656
1941-42 ..	65,013,509	50,091,565	13,082,394	16,665,829	7,093,250	4,334,553	156,333,100

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 £156.3 million in 1941-42.

3. *Value of Plant and Machinery.*—(i) *Total for Australia, 1937-38 to 1941-42.* The following table shows for Australia the approximate value of plant and machinery used in factories in each of the five years ended 1941-42 :—

FACTORIES : VALUE OF PLANT AND MACHINERY, AUSTRALIA.

Class of Industry.	1937-38.	1938-39.	1939-40.	1940-41.	1941-42.
	£	£	£	£	£
I. Treatment of Non-metalliferous Mine and Quarry Products ..	6,504,872	7,028,382	6,765,086	6,553,067	6,175,931
II. Bricks, Pottery, Glass, etc. ..	3,019,476	3,144,586	3,090,862	2,978,633	2,975,457
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease ..	6,251,926	6,754,248	7,863,905	10,872,160	14,856,820
IV. Industrial Metals, Machines, Implements and Conveyances ..	29,285,995	33,037,801	34,400,778	40,711,422	45,296,023
V. Precious Metals, Jewellery and Plate ..	196,652	197,059	209,507	210,133	207,010
VI. Textiles and Textile Goods ..	6,463,604	6,657,416	7,010,262	7,714,174	7,844,986
VII. Skins and Leather ..	900,239	973,181	1,022,965	1,095,683	1,143,210
VIII. Clothing ..	2,431,475	2,557,388	2,603,073	2,677,323	2,769,587
IX. Food, Drink and Tobacco ..	31,198,129	32,100,675	32,611,143	33,022,696	32,572,699
X. Woodworking and Basketware ..	3,759,553	3,907,551	4,079,562	4,230,650	4,388,014
XI. Furniture, Bedding, etc. ..	725,420	727,857	733,229	712,922	652,707
XII. Paper, Stationery, Printing, Bookbinding, etc. ..	8,436,942	9,188,227	10,010,470	10,840,730	10,566,786
XIII. Rubber ..	1,470,300	1,367,859	1,393,609	1,472,249	1,437,977
XIV. Musical Instruments ..	10,750	11,702	11,422	15,127	19,861
XV. Miscellaneous Products ..	719,309	758,273	812,729	886,256	1,222,140
Total, Classes I. to XV.	101,374,642	108,412,205	112,618,602	123,993,225	132,129,208
XVI. Heat, Light and Power	31,989,944	35,249,922	37,225,849	37,363,009	37,050,584
Grand Total ..	133,364,586	143,662,127	149,844,451	161,356,234	169,179,792

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 £169.2 million for 1941-42. The increase of £7.8 million recorded during the latter year was due to the development in the heavy industries included in Class IV. and in the Chemicals, Dyes, Explosives, etc., industries in Class III., as a result of war-time demands on these industries.

(ii) *Totals in each State.* The following table shows the value of plant and machinery in each State during the last five years. The chief increases during 1941-42 were recorded in Victoria, New South Wales and South Australia :—

FACTORIES : VALUE OF PLANT AND MACHINERY.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
	£	£	£	£	£	£	£
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
1940-41 ..	68,533,346	44,985,756	18,501,758	14,391,653	7,394,680	7,549,041	161,356,234
1941-42 ..	70,611,613	48,065,805	18,771,893	16,808,122	7,309,560	7,612,799	169,179,792

(iii) *Value according to Industry, 1941-42.* The following table shows the value of plant and machinery used in factories in each State during 1941-42, classified according to industry :—

FACTORIES : VALUE OF PLANT AND MACHINERY, 1941-42.

Class of Industry.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
	£	£	£	£	£	£	£
I. Treatment of Non-metalliferous Mine and Quarry Products ..	3,747,725	1,496,436	284,295	388,500	117,937	141,038	6,175,931
II. Bricks, Pottery, Glass, etc. ..	1,732,513	816,155	112,305	165,332	114,669	34,483	2,975,457
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease ..	2,985,619	5,537,923	934,274	4,492,029	864,582	42,393	14,856,820
IV. Industrial Metals, Machines, Implements and Conveyances ..	25,577,532	10,145,163	2,321,738	4,763,507	1,047,154	1,440,929	45,296,023
V. Precious Metals, Jewellery and Plate ..	66,088	118,128	4,750	12,168	3,609	2,267	207,010
VI. Textiles and Textile Goods ..	2,742,131	4,077,500	133,133	553,674	96,446	242,102	7,844,986
VII. Skins and Leather ..	478,990	418,019	117,308	22,314	73,623	32,956	1,143,210
VIII. Clothing ..	1,040,041	1,234,816	169,881	187,180	117,154	20,515	2,769,587
IX. Food, Drink and Tobacco ..	9,976,088	7,501,771	10,859,017	1,888,618	1,617,747	729,458	32,572,699
X. Woodworking and Basketware ..	1,531,073	1,026,267	780,353	296,754	437,917	315,650	4,388,014
XI. Furniture, Bedding, etc. ..	255,157	206,041	76,745	58,098	39,222	17,444	652,707
XII. Paper, Stationery, Printing, Book-binding, etc. ..	4,109,584	3,480,436	591,903	714,696	281,989	1,388,178	10,566,786
XIII. Rubber ..	499,989	858,197	41,871	21,442	9,434	7,044	1,437,977
XIV. Musical Instruments ..	10,844	7,844	265	433	475	..	19,861
XV. Miscellaneous Products ..	645,692	509,599	13,422	26,573	16,287	10,567	1,222,140
Total, Classes I. to XV.	55,399,066	37,434,295	16,441,260	13,591,318	4,838,245	4,423,024	132,129,208
XVI. Heat, Light and Power ..	15,212,547	10,631,510	2,330,633	3,216,804	2,471,315	3,187,775	37,050,584
Grand Total ..	70,611,613	48,065,805	18,771,893	16,808,122	7,309,560	7,612,799	169,179,792

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 1941-42.

ALLOWANCE FOR DEPRECIATION OF LAND AND BUILDINGS AND PLANT AND MACHINERY, 1941-42.

Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
	£	£	£	£	£	£	£
I. Treatment of Non-metalliferous Mine and Quarry Products ..	533,175	114,854	36,732	14,799	12,579	13,853	725,992
II. Bricks, Pottery, Glass, etc. ..	194,465	81,127	9,205	17,182	10,923	1,939	314,841
III. Chemicals, Dyes, Explosives, Paint, Oils and Grease ..	308,178	710,062	73,401	385,149	59,870	6,009	1,542,669
IV. Industrial Metals, Machines, Implements and Conveyances	2,984,793	1,225,814	228,229	776,289	59,092	140,740	5,414,957
V. Precious Metals, Jewellery and Plate	5,379	8,986	420	763	260	207	16,015
VI. Textiles and Textile Goods ..	359,882	631,651	10,692	54,809	10,509	38,272	1,105,815
VII. Skins and Leather ..	42,256	43,639	8,715	2,796	5,962	4,314	107,682
VIII. Clothing ..	117,053	142,199	10,959	12,444	8,048	2,405	293,108
IX. Food, Drink and Tobacco	936,657	697,377	713,183	179,469	127,569	56,281	2,710,536
X. Woodworking and Basketware	158,736	103,692	64,366	31,268	37,335	26,279	421,676
XI. Furniture, Bedding, etc. ..	28,304	21,048	10,688	7,151	3,674	1,697	72,562
XII. Paper, Stationery, Printing, Book-binding, etc. ..	492,832	412,309	65,943	50,306	38,811	118,519	1,178,720
XIII. Rubber ..	107,951	113,488	6,540	3,080	1,183	996	233,238
XIV. Musical Instruments	1,779	599	8	24	47	..	2,457
XV. Miscellaneous Products ..	54,933	69,901	1,327	3,000	1,486	781	131,428
Total, Classes I. to XV.	6,326,373	4,376,746	1,240,408	1,538,529	377,348	412,292	14,271,696
XVI. Heat, Light and Power ..	1,075,724	210,515	187,827	143,380	90,883	92,392	1,800,721
Grand Total ..	7,402,097	4,587,261	1,428,235	1,681,909	468,231	504,684	16,072,417

§ 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, details 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, 1941-42.* The manufacture of cement and cement goods is an important industry included in Class I. and details for each State during 1941-42 are given in the following table :—

CEMENT AND CEMENT GOODS, 1941-42.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories	41	41	16	14	16	6	134
Number of persons engaged ..	1,297	1,278	608	481	364	124	4,152
Value of land and buildings ..	£ 611,741	£ 346,488	£ 153,924	£ 99,470	£ 33,056	£ 109,040	£ 1,353,719
Value of plant and machinery ..	£ 1,021,961	£ 682,479	£ 204,894	£ 302,867	£ 85,377	£ 84,263	£ 2,381,841
Wages paid	£ 360,303	£ 360,844	£ 142,829	£ 122,520	£ 85,044	£ 32,589	£ 1,104,129
Value of fuel used	£ 238,765	£ 142,636	£ 81,483	£ 69,710	£ 58,804	£ 36,216	£ 627,614
Value of materials used	£ 566,228	£ 576,085	£ 371,129	£ 189,783	£ 130,222	£ 77,436	£ 1,910,883
Total value of output	£ 1,690,139	£ 1,597,442	£ 798,868	£ 479,380	£ 357,831	£ 192,336	£ 5,115,996
Value of production	£ 885,146	£ 878,721	£ 346,256	£ 219,887	£ 168,805	£ 78,684	£ 2,577,499

(ii) *Total for Australia, 1937-38 to 1941-42.* The next table gives particulars for the last five years for Australia :—

CEMENT AND CEMENT GOODS : AUSTRALIA.

Items.	1937-38.	1938-39.	1939-40.	1940-41.	1941-42.
Number of factories	125	132	132	146	134
Number of persons engaged ..	3,832	3,932	3,766	4,155	4,152
Value of land and buildings ..	£ 1,346,013	£ 1,350,175	£ 1,320,311	£ 1,319,560	£ 1,353,719
Value of plant and machinery ..	£ 2,308,148	£ 2,515,814	£ 2,387,391	£ 2,366,901	£ 2,381,841
Wages paid	£ 863,016	£ 897,426	£ 864,449	£ 1,008,113	£ 1,104,129
Value of fuel used	£ 573,427	£ 561,578	£ 573,443	£ 580,626	£ 627,614
Value of materials used	£ 1,429,104	£ 1,542,067	£ 1,486,396	£ 1,715,643	£ 1,910,883
Total value of output	£ 4,313,449	£ 4,488,891	£ 4,418,050	£ 4,803,432	£ 5,115,996
Value of production	£ 2,310,918	£ 2,385,246	£ 2,358,211	£ 2,507,163	£ 2,577,499
Cement, portland grey, produced ..	ton 851,914	867,849	864,917	860,002	889,834
	£ 2,991,927	£ 3,023,707	£ 2,931,394	£ 2,902,923	£ 2,953,591

3. **Chemicals, Drugs and Medicines.**—(i) *Details for each State, 1941-42.* This is an important industry in Class III. and details for each State during 1941-42 are shown in the following table :—

CHEMICALS, DRUGS AND MEDICINES, 1941-42.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories	162	71	12	15	13	5	278
Number of persons engaged ..	3,605	2,632	203	810	275	46	7,571
Value of land and buildings ..	£ 1,376,315	£ 749,283	£ 60,402	£ 453,310	£ 63,658	£ 37,315	£ 2,740,283
Value of plant and machinery ..	£ 858,458	£ 820,472	£ 29,400	£ 798,686	£ 178,788	£ 11,095	£ 2,696,899
Wages paid	£ 791,663	£ 637,731	£ 46,090	£ 207,527	£ 69,334	£ 6,059	£ 1,758,404
Value of fuel used	£ 107,633	£ 98,556	£ 5,376	£ 100,809	£ 16,441	£ 681	£ 329,496
Value of materials used	£ 3,238,718	£ 1,827,494	£ 146,042	£ 526,464	£ 126,610	£ 19,968	£ 5,885,296
Total value of output	£ 6,831,890	£ 3,799,051	£ 272,850	£ 1,161,464	£ 303,392	£ 39,802	£ 12,408,449
Value of production	£ 3,485,539	£ 1,873,001	£ 121,432	£ 534,191	£ 160,341	£ 19,153	£ 6,193,657

(ii) *Total for Australia, 1937-38 to 1941-42.* 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.	1937-38.	1938-39.	1939-40.	1940-41.	1941-42.
Number of factories	228	238	243	259	278
Number of persons engaged ..	5,210	5,346	5,698	6,707	7,571
Value of land and buildings ..	£ 1,677,485	£ 1,817,727	£ 2,212,560	£ 2,473,391	£ 2,740,283
Value of plant and machinery ..	£ 1,119,602	£ 1,253,577	£ 1,888,531	£ 2,470,272	£ 2,696,899
Wages paid	£ 955,677	£ 1,011,906	£ 1,112,240	£ 1,408,919	£ 1,758,404
Value of fuel used	£ 119,880	£ 121,503	£ 148,753	£ 241,680	£ 329,496
Value of materials used	£ 3,219,896	£ 3,403,680	£ 3,922,543	£ 4,710,868	£ 5,885,296
Total value of output	£ 6,873,053	£ 7,351,745	£ 8,398,028	£ 10,026,247	£ 12,408,449
Value of production	£ 3,533,277	£ 3,826,562	£ 4,326,732	£ 5,073,699	£ 6,193,657

4- White Lead, Paints and Varnish.—(i) *Details for each State, 1941-42.* The following table shows particulars of this industry for each State during 1941-42 :—

WHITE LEAD, PAINTS AND VARNISH FACTORIES, 1941-42.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories	49	41	4	10	2	2	108
Number of Persons engaged ..	1,774	405	40	151	10	3	2,383
Value of land and buildings ..	£ 587,821	134,511	6,798	69,164	(a)	(a)	802,374
Value of plant and machinery ..	£ 255,099	52,433	3,424	42,726	(a)	(a)	635,908
Wages paid	£ 501,221	102,596	9,589	34,264	(a)	(a)	650,201
Value of fuel used	£ 45,763	7,725	1,008	2,446	(a)	(a)	57,119
Value of materials used	£ 2,415,412	414,803	44,367	162,171	(a)	(a)	3,061,915
Total value of output	£ 3,892,312	699,655	64,512	261,923	(a)	(a)	4,952,682
Value of production	£ 1,431,137	277,127	19,137	97,306	(a)	(a)	1,833,648

(a) Particulars not available for publication.

(b) Includes Western Australia and Tasmania.

(ii) *Total for Australia, 1937-38 to 1941-42.* The next table gives particulars for the last five years for Australia :—

WHITE LEAD, PAINTS AND VARNISH FACTORIES : AUSTRALIA.

Items.	1937-38.	1938-39.	1939-40.	1940-41.	1941-42.
Number of factories	98	102	105	109	108
Number of persons engaged ..	2,166	2,271	2,367	2,408	2,383
Value of land and buildings ..	£ 709,515	761,345	794,816	812,759	802,374
Value of plant and machinery ..	£ 306,759	324,222	316,874	358,447	355,908
Wages paid	£ 487,869	535,014	509,547	597,107	650,201
Value of fuel used	£ 44,513	44,992	49,472	53,940	57,119
Value of materials used	£ 2,391,785	2,275,027	2,718,543	2,804,935	3,061,915
Total value of output	£ 4,000,344	3,905,104	4,303,832	4,717,987	4,952,682
Value of production	£ 1,564,046	1,585,085	1,535,817	1,799,112	1,833,648

5. Soap and Candle Factories.—(i) *Details for each State, 1941-42.* 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 1941-42 :—

SOAP AND CANDLE FACTORIES, 1941-42.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W.A.	Tas.	Australia.
Number of factories	35	13	10	6	2	2	68
Number of persons engaged ..	1,792	750	260	192	65	15	3,074
Value of land and buildings ..	£ 379,770	196,925	35,184	59,081	(a)	(a)	(b) 696,218
Value of plant and machinery ..	£ 241,596	183,833	21,793	36,009	(a)	(a)	(b) 498,970
Wages paid	£ 419,313	186,715	54,308	45,168	(a)	(a)	(b) 724,737
Value of fuel used	£ 48,410	63,015	5,907	4,074	(a)	(a)	(b) 124,615
Value of materials used	£ 1,457,562	792,038	154,931	112,940	(a)	(a)	(b) 2,602,943
Total value of output	£ 3,180,112	1,678,499	301,436	197,552	(a)	(a)	(b) 5,487,898
Value of production	£ 1,674,140	823,446	140,598	80,538	(a)	(a)	(b) 2,760,340

(a) Particulars not available for publication.

(b) Includes Western Australia and Tasmania.

(ii) *Total for Australia, 1937-38 to 1941-42.* The next table gives similar particulars for the last five years for Australia :—

SOAP AND CANDLE FACTORIES : AUSTRALIA.

Items.	1937-38.	1938-39.	1939-40.	1940-41.	1941-42.
Number of factories	65	65	68	66	68
Number of persons engaged ..	2,534	2,620	2,722	2,914	3,074
Value of land and buildings ..	£ 649,362	665,546	686,821	731,098	696,218
Value of plant and machinery ..	£ 556,427	576,732	582,786	490,993	498,970
Wages paid	£ 478,065	501,174	535,578	605,448	724,737
Value of fuel used	£ 72,670	76,283	87,004	96,283	124,615
Value of materials used	£ 1,787,068	1,567,909	1,792,039	1,973,953	2,602,943
Total value of output	£ 3,627,830	3,529,723	3,965,660	4,407,637	5,487,898
Value of Production	£ 1,768,092	1,885,441	2,086,527	2,337,401	2,760,340

(iii) *Raw Material Used and Production, 1937-38 to 1941-42.* 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.		1937-38.	1938-39.	1939-40.	1940-41.	1941-42.
Tallow used cwt.		511,302	535,511	603,014	633,982	835,440
Alkali used "		218,171	229,881	251,232	245,594	271,040
Coco-nut oil used, refined and unrefined "		137,134	138,954	142,839	165,720	164,614
Soap made "		952,507	986,087	1,051,618	1,037,844	1,254,956
Candles made "		26,964	27,459	29,872	25,608	39,241

The output for the year 1941-42 comprised the following quantities of soap:— household, 843,543 cwt.; toilet, 258,772 cwt.; sand, 85,782 cwt.; soft, 20,820 cwt.; and woolscouring, 46,039 cwt. This excludes 5,333 cwt. of soap made in establishments not classified as Soap and Candle Factories.

6. **Chemical Fertilizers.**—(i) *Details for each State, 1941-42.* The following table gives particulars of the factories engaged in the manufacture of chemical fertilizers in each State during 1941-42. Details of the consumption, imports and exports of fertilizers will be found in Chapter XXII. "Agricultural Production".

CHEMICAL FERTILIZERS, 1941-42.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	6	6	5	6	5	7	35
Number of persons engaged ..	211	942	94	545	320	24	2,136
Value of land and buildings £	116,954	545,029	70,509	263,340	498,391	44,098	1,538,321
Value of plant and machinery £	114,882	320,316	98,415	641,658	597,347	22,506	2,295,124
Wages paid	£ 66,824	283,182	26,284	155,625	101,088	6,788	639,791
Value of fuel used	£ 8,983	57,901	1,406	26,427	19,586	565	124,868
Value of materials used	£ 529,784	1,360,768	312,184	694,752	833,958	89,821	3,821,267
Total value of output	£ 764,529	1,927,262	406,373	926,810	1,101,976	92,626	5,219,576
Value of production	£ 225,762	508,593	92,783	205,631	248,432	2,240	1,283,441

(ii) *Total for Australia, 1937-38 to 1941-42.* The development of this industry since 1937-38 is set out hereunder:—

CHEMICAL FERTILIZERS : AUSTRALIA.

Items.	1937-38.	1938-39.	1939-40.	1940-41.	1941-42.
Number of factories	32	36	36	34	35
Number of persons engaged	2,474	2,540	2,392	2,312	2,136
Value of land and buildings	£ 1,424,055	1,449,157	1,529,219	1,513,639	1,538,321
Value of plant and machinery	£ 2,214,575	2,352,819	2,386,943	2,352,793	2,295,124
Wages paid	£ 599,947	601,477	604,233	615,085	639,791
Value of fuel used	£ 108,587	113,749	107,887	107,234	114,868
Value of materials used	£ 3,239,322	3,231,053	3,123,764	3,727,369	3,821,267
Total value of output	£ 4,904,383	4,944,800	4,652,284	5,327,996	5,219,576
Value of production	£ 1,556,474	1,599,998	1,420,633	1,493,393	1,283,441

7. **Smelting, Converting, Refining and Rolling of Iron and Steel.**—The extension of the classification referred to in § 1 par. 2 p. 647 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 1941-42 are as follows:—

SMELTING, CONVERTING, REFINING AND ROLLING OF IRON AND STEEL, 1941-42.

Items.	N.S.W.	Victoria.	Q'land. (a)	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	182	164	..	40	1	..	387
Number of persons engaged ..	22,093	5,784	..	3,359	201	..	31,437
Value of land and buildings £	3,166,163	712,038	..	(b)	(b)	..	c 4,595,620
Value of plant and machinery £	8,198,129	662,504	..	(b)	(b)	..	c10,556,961
Wages paid ..	£ 7,040,674	1,768,217	..	(b)	(b)	..	c 9,749,026
Value of fuel used ..	£ 3,327,128	261,002	..	(b)	(b)	..	c 3,744,235
Value of materials used £	29,340,452	2,039,245	..	(b)	(b)	..	c32,921,370
Total value of output £	45,001,066	5,006,076	..	(b)	(b)	..	c53,062,902
Value of production ..	£ 12,333,486	2,705,829	..	(b)	(b)	..	c16,397,297

(a) Now included with Engineering. (b) Particulars not available for publication.
(c) Includes South Australia and Western Australia.

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) 1941-42.

Items.	N.S.W.	Victoria.	Q'land. (b)	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	517	472	118	102	137	26	1,372
Number of persons engaged ..	18,829	18,283	3,722	4,277	2,330	377	47,818
Value of land and buildings £	2,570,940	2,423,312	392,929	271,728	375,685	50,194	6,084,788
Value of plant and machinery ..	£ 2,154,979	2,331,633	326,019	356,295	288,272	35,365	5,492,563
Wages paid ..	£ 5,794,993	5,698,221	953,755	1,022,637	680,682	93,296	14,243,584
Value of fuel used £	219,038	243,489	57,235	55,536	43,708	5,308	624,314
Value of materials used £	6,362,265	6,802,400	906,051	998,870	692,802	69,588	15,831,976
Total value of putput £	15,326,119	16,362,666	2,335,160	2,492,769	1,813,876	210,763	38,541,353
Value of production £	8,744,816	9,316,777	1,371,874	1,438,363	1,077,366	135,867	22,085,063

(a) Excludes marine and electrical. (b) Includes smelting, converting, refining and rolling of 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 in mines :—

EXTRACTING AND REFINING OF NON-FERROUS METALS AND ALLOYS, 1941-42.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.A. (a)	Tas.	Australia.
Number of factories ..	12	7	16	3	..	4	42
Number of persons engaged ..	1,603	96	1,108	1,326	..	2,431	6,564
Value of land and buildings £	319,804	32,713	326,532	121,289	..	556,662	1,357,000
Value of plant and machinery ..	£ 1,248,120	13,170	908,832	656,610	..	1,226,630	4,053,362
Wages paid ..	£ 544,971	30,379	327,080	494,280	..	710,950	2,107,660
Value of fuel used ..	£ 285,100	5,649	107,668	107,208	..	269,164	774,789
Value of materials used ..	£ 11,133,471	409,012	1,774,241	5,431,915	..	1,710,946	20,479,585
Total value of output ..	£ 13,681,551	485,746	2,036,047	6,229,075	..	3,468,737	26,501,156
Value of production ..	£ 2,242,980	71,085	754,138	689,952	..	1,488,627	5,246,782

(a) In Western Australia the majority of the plants are worked on the mines, and are therefore not included.

10. **Electrical Installations, Cables and Apparatus.**—(i) *Details for each State, 1941-42.* The following table shows particulars of this industry for each State during 1941-42 :—

ELECTRICAL INSTALLATIONS, CABLES AND APPARATUS, 1941-42.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	177	123	16	27	28	12	383
Number of persons engaged ..	9,662	4,264	194	899	201	83	15,303
Value of land and buildings ..	£ 1,283,116	611,562	35,289	80,045	62,738	17,564	2,090,314
Value of plant and machinery ..	£ 881,906	323,733	7,280	44,615	10,232	10,595	1,278,361
Wages paid ..	£ 2,483,080	1,044,137	37,508	211,790	39,296	11,347	3,827,158
Value of fuel used ..	£ 103,761	34,750	848	10,068	1,711	560	151,698
Value of materials used ..	£ 3,381,082	1,661,304	37,255	244,457	50,235	19,905	5,394,238
Total value of output ..	£ 7,314,524	3,351,092	95,255	574,231	125,742	46,817	11,507,661
Value of production ..	£ 3,829,681	1,655,038	57,152	319,706	73,796	26,352	5,961,725

(ii) *Total for Australia, 1937-38 to 1941-42.*—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.	1937-38.	1938-39.	1939-40.	1940-41.	1941-42.
Number of factories ..	354	360	362	361	383
Number of persons engaged ..	11,054	10,666	11,461	13,218	15,303
Value of land and buildings ..	£ 1,570,455	1,627,183	1,606,733	1,831,807	2,090,314
Value of plant and machinery ..	£ 799,283	896,553	940,606	1,003,036	1,278,361
Wages paid ..	£ 1,915,348	2,031,098	2,273,178	2,827,843	3,827,158
Value of fuel used ..	£ 101,926	104,594	110,285	122,795	151,698
Value of materials used ..	£ 3,101,308	3,195,032	3,422,601	4,310,587	5,394,238
Total value of output ..	£ 6,494,421	6,954,498	7,455,610	8,972,810	11,507,661
Value of production ..	£ 3,291,187	3,654,872	3,922,184	4,539,428	5,961,725

11. **Railway and Tramway Workshops.**—(i) *Details for each State, 1941-42.* 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 1941-42 have been excluded:—

TRAMCARS, RAILWAY ROLLING STOCK AND CARRIAGES, ETC. (a), 1941-42.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	36	24	11	15	21	7	114
Number of persons engaged ..	12,694	8,149	4,688	6,422	2,369	608	35,020
Value of land and buildings £	3,067,959	1,498,884	544,478	967,353	509,014	91,803	6,682,491
Value of plant and machinery ..	£ 2,630,321	1,117,748	437,018	859,519	424,043	51,020	5,519,669
Wages paid ..	£ 4,051,517	2,404,128	1,529,733	2,036,674	700,980	213,485	10,936,517
Value of fuel used ..	£ 127,721	67,835	43,360	84,857	34,214	9,404	367,451
Value of materials used ..	£ 2,625,750	1,460,077	821,858	1,385,455	454,019	27,616	6,774,775
Total value of output ..	£ 7,485,701	4,326,062	2,649,341	3,857,686	1,490,783	276,497	20,086,070
Value of production ..	£ 4,732,230	2,798,150	1,784,123	2,387,374	1,002,550	239,417	12,943,844

(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, 1937-38 to 1941-42.* The following table shows the development of railway and tramway workshops in Australia since 1937-38:—

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

Items.	1937-38.	1938-39.	1939-40.	1940-41.	1941-42.
Number of factories ..	116	117	115	115	114
Number of persons engaged ..	27,207	27,310	27,020	30,178	35,020
Value of land and buildings ..	£ 6,552,522	6,736,924	6,593,991	6,619,976	6,682,491
Value of plant and machinery ..	£ 5,109,599	5,390,179	5,382,465	5,476,446	5,519,669
Wages paid ..	£ 6,525,372	6,720,990	6,744,603	8,014,441	10,936,517
Value of fuel used ..	£ 226,493	226,108	235,637	281,726	367,451
Value of materials used ..	£ 5,032,992	4,976,353	4,915,591	5,116,944	6,774,775
Total value of output ..	£ 13,029,225	13,223,114	13,227,518	14,867,940	20,086,070
Value of production ..	£ 7,769,740	8,020,653	8,076,290	9,469,270	12,943,844

(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 1941-42:—

ASSEMBLING AND REPAIRING OF MOTOR VEHICLES AND CYCLES, 1941-42.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories ..	1,147	833	302	181	252	118	2,833
Number of persons engaged ..	7,043	6,696	1,903	1,583	1,169	597	18,991
Value of land and buildings ..	£ 2,822,491	1,806,342	528,667	477,859	504,074	233,296	6,372,729
Value of plant and machinery ..	£ 619,198	429,930	131,928	146,268	107,412	51,671	1,486,407
Wages paid ..	£ 1,540,815	1,684,495	381,359	352,201	253,293	96,225	4,308,388
Value of fuel used ..	£ 74,850	71,745	19,471	14,851	15,059	4,120	200,096
Value of materials used ..	£ 2,492,025	2,048,402	382,930	405,410	359,758	101,049	5,789,574
Total value of output ..	£ 5,009,417	4,804,313	1,041,445	963,299	807,006	267,020	12,892,500
Value of production ..	£ 2,442,542	2,684,166	639,044	543,938	432,189	161,851	6,902,830

Particulars in regard to motor body building for 1941-42 are as follows :—

MOTOR BODY BUILDING, 1941-42.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W.Aust.	Tas. (a)	Australia.
Number of factories ..	48	70	32	14	11	19	194
Number of persons engaged ..	1,006	3,059	429	9,163	169	129	13,955
Value of land and buildings ..	£ 245,882	£ 556,828	£ 67,931	£ 410,746	£ 49,059	£ 49,800	£ 1,380,246
Value of plant and machinery ..	£ 53,373	£ 209,437	£ 30,461	£ 277,595	£ 12,354	£ 3,347	£ 586,567
Wages paid ..	£ 256,821	£ 922,362	£ 90,200	£ 2,731,175	£ 35,486	£ 23,080	£ 4,059,124
Value of fuel used ..	£ 7,566	£ 23,744	£ 3,412	£ 86,289	£ 1,966	£ 465	£ 123,442
Value of materials used ..	£ 429,477	£ 1,608,957	£ 119,667	£ 1,898,204	£ 63,354	£ 18,953	£ 4,138,612
Total value of output ..	£ 923,368	£ 3,102,780	£ 253,118	£ 5,393,644	£ 121,599	£ 56,281	£ 9,855,790
Value of production ..	£ 491,325	£ 1,470,079	£ 130,039	£ 3,409,151	£ 56,279	£ 36,863	£ 5,593,736

(a) Includes horse-drawn vehicles.

The output of motor bodies together with the number imported into Australia for 1931-32 and the last five years are shown in the next table :—

MOTOR BODIES : PRODUCTION AND IMPORTS, AUSTRALIA.

Items.		1931-32.	1937-38.	1938-39.	1939-40.	1940-41.	1941-42.
Motor Bodies—							
Number made ..	No.	6,323	92,245	79,436	71,487	49,130	62,731
Value ..	£	450,510	7,411,177	6,421,142	5,583,316	3,337,346	4,321,988
Number imported ..	No.	61	646	532	345	50	16
Value ..	£	7,360	63,810	56,641	27,315	4,057	1,805

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, 1941-42.* The following table gives details respecting agricultural implement works in each State for 1941-42 :—

AGRICULTURAL IMPLEMENT WORKS, 1941-42.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	37	74	9	33	8	..	161
Number of persons engaged ..	1,643	4,674	1,266	1,250	101	..	8,934
Value of land and buildings ..	£ 178,523	£ 609,777	£ 45,527	£ 148,455	£ 43,682	..	£ 1,025,966
Value of plant and machinery ..	£ 103,523	£ 604,379	£ 109,448	£ 179,445	£ 2,816	..	£ 990,611
Wages paid ..	£ 484,300	£ 1,466,355	£ 312,400	£ 294,004	£ 32,079	..	£ 2,589,138
Value of fuel used ..	£ 17,222	£ 130,203	£ 18,712	£ 27,512	£ 629	..	£ 194,278
Value of materials used ..	£ 493,290	£ 1,707,299	£ 394,251	£ 369,087	£ 12,718	..	£ 2,976,645
Total value of output ..	£ 1,144,503	£ 3,713,633	£ 763,439	£ 745,995	£ 58,047	..	£ 6,425,617
Value of production ..	£ 633,991	£ 1,876,131	£ 350,476	£ 349,396	£ 44,700	..	£ 3,254,694

(iii) *Total for Australia, 1937-38 to 1941-42.* With the improvement in prices of agricultural products in the year 1937-38 the industry expanded, but the decline in the two following years combined with war conditions reflected the fall in world prices

of farm products. But with the increased food requirements of the fighting forces at home and abroad the industry expanded considerably, particularly in the year 1941-42. Details for each of the last five years are as follows :—

AGRICULTURAL IMPLEMENT WORKS : AUSTRALIA.

Items.	1937-38.	1938-39.	1939-40.	1940-41.	1941-42.
Number of factories	160	161	168	161	161
Number of persons engaged	7,756	6,563	6,379	7,320	8,934
Value of land and buildings	£ 804,116	996,949	1,034,172	1,042,277	1,025,966
Value of plant and machinery	£ 729,771	910,520	920,700	981,957	990,611
Wages paid	£ 1,629,771	1,373,213	1,393,405	1,778,465	2,589,138
Value of fuel used	£ 105,175	81,736	91,486	133,060	194,278
Value of materials used	£ 1,904,156	1,485,018	1,522,735	1,809,800	2,976,645
Total value of output	£ 4,225,658	3,403,091	3,419,701	4,300,340	6,425,617
Value of production	£ 2,216,327	1,836,337	1,805,480	2,357,480	3,254,694

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 1,320,073 in 1941-42, and this increase is reflected in the advancement of the industry during that period. Since 1939-40 considerable expansion has taken place in the industry to meet the requirements of the fighting services.

WIRELESS APPARATUS : AUSTRALIA.

Items.	1937-38.	1938-39.	1939-40.	1940-41.	1941-42.
Number of factories	73	72	73	77	74
Number of persons engaged	5,519	4,838	4,869	6,165	8,429
Value of land and buildings	£ 549,254	557,953	598,092	573,171	661,706
Value of plant and machinery	£ 315,325	305,468	352,103	335,735	415,730
Wages paid	£ 791,907	754,302	785,388	1,121,252	1,977,294
Value of fuel used	£ 24,022	23,525	26,274	33,473	44,623
Value of materials used	£ 1,949,286	1,355,683	1,546,893	1,907,840	2,680,753
Total value of output	£ 3,247,472	2,502,338	2,834,628	3,566,280	5,323,681
Value of production	£ 1,274,164	1,223,130	1,261,459	1,624,967	2,598,305

The number of domestic receiving sets assembled in 1941-42 was 105,833, and the number of domestic chassis made was 97,927.

15. **Cotton.**—(i) *General.* Cotton has been grown in Australia since 1860, but never on a very large scale. The quantity of unginning 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 XXII, "Agricultural Production".

(ii) *Ginning.* The ginning and marketing of cotton is controlled by the Queensland Cotton Board. The Board operates ginneries and processes by-products. The production of raw cotton is insufficient for local factory requirements and 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 1941-42 was 67, the number of persons engaged 7,309, and the value of the output £6,668,051.

16. *Woollen and Tweed Mills.*—(i) *Details for each State, 1941-42.* 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 1941-42 :—

WOOLLEN AND TWEED (INCLUDING WOOLSCOURING) MILLS, 1941-42.

Items.	N.S.W. (a)	Victoria.	Q'land. (a)	S. Aust. (b)	W.A. (a)	Tas.	Australia.
Number of factories	32	62	3	9	1	4	111
Number of persons engaged ..	9,364	12,060	861	1,514	163	2,400	26,362
Value of land and buildings ..	£ 85,025	1,496,219	(c)	143,764	(c)	232,752	d 2,791,914
Value of plant and machinery ..	£ 1,129,077	1,596,452	(c)	225,861	(c)	190,391	d 3,279,601
Wages paid	£ 1,729,310	2,733,220	(c)	368,974	(c)	430,902	d 5,416,150
Value of fuel used	£ 159,908	332,302	(c)	58,419	(c)	33,227	d 604,515
Value of materials used	£ 5,027,736	7,501,148	(c)	1,267,043	(c)	1,271,940	d15,408,207
Total value of output	£ 8,048,015	12,683,553	(c)	1,830,060	(c)	2,242,108	d25,467,073
Value of production	£ 2,860,371	4,850,103	(c)	504,598	(c)	936,941	d 9,454,351

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

(ii) *Total for Australia, 1937-38 to 1941-42.* 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.	1937-38.	1938-39.	1939-40.	1940-41.	1941-42.
Number of factories	87	90	96	102	111
Number of persons engaged ..	19,103	19,608	22,041	25,031	26,362
Value of land and buildings ..	£ 2,435,114	2,380,009	2,484,781	2,606,603	2,791,914
Value of plant and machinery ..	£ 3,416,233	3,369,517	3,460,522	3,381,505	3,279,601
Wages paid	£ 2,741,729	2,887,907	3,412,709	4,402,091	5,416,150
Value of fuel used	£ 379,380	392,537	466,247	537,491	604,515
Value of materials used	£ 8,046,352	7,331,117	9,039,281	11,771,911	15,408,207
Total value of output	£ 12,618,132	12,514,610	15,766,930	21,060,244	25,467,073
Value of production	£ 4,192,400	4,790,956	6,261,402	8,750,842	9,454,351

(a) Excludes Woolscouring in New South Wales, Queensland and Western Australia but includes 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 1941-42 was 35,586,619 square yards in woollen mills and 1,362,565 square yards in other works. In New South Wales 16,509,982 square yards and in Victoria 17,761,682 square yards of tweed and cloth were manufactured in woollen mills. The production of flannel amounted to 5,981,126 square yards, while blankets, shawls and rugs to the number of 3,753,392 were made.

17. **Hosiery and Other Knitted Goods.**—(i) *Details for each State, 1941-42.* In addition to the woollen and tweed factories, there were 328 hosiery and knitting mills operating in Australia during 1941-42. The total number of persons engaged in these establishments was 17,711 of whom 13,380 were females. Details for each State are shown in the following table :—

HOSIERY AND OTHER KNITTED GOODS, 1941-42.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	82	231	1	7	4	3	328
Number of persons engaged ..	5,145	12,082	171	59	140	84	17,711
Value of land and buildings ..	£ 691,974	1,334,321	(a)	(a)	12,447	7,083	b 2,066,723
Value of plant and machinery ..	£ 502,738	1,043,866	(a)	(a)	7,970	8,112	b 1,576,301
Wages paid ..	£ 893,557	2,098,427	(a)	(a)	15,280	10,563	b 3,049,560
Value of fuel used ..	£ 37,381	111,102	(a)	(a)	1,217	889	b 151,716
Value of materials used ..	£ 2,697,254	4,952,422	(a)	(a)	69,628	69,219	b 7,921,884
Total value of output ..	£ 4,472,703	8,975,065	(a)	(a)	105,092	90,625	b 13,838,471
Value of production ..	£ 1,738,068	3,911,541	(a)	(a)	34,247	20,517	b 5,764,871

(a) Particulars not available for publication.

(b) Includes Queensland and South Australia.

(ii) *Total for Australia, 1937-38 to 1941-42.* Comparative statistics for the five years are shown in the following table :—

HOSIERY AND OTHER KNITTED GOODS : AUSTRALIA.

Items.	1937-38.	1938-39.	1939-40.	1940-41.	1941-42.
Number of factories ..	306	313	323	328	328
Number of persons engaged ..	18,230	18,159	19,073	19,408	17,711
Value of land and buildings ..	£ 1,861,882	1,962,336	1,980,550	2,007,062	2,066,723
Value of plant and machinery ..	£ 1,926,882	1,930,564	1,800,451	1,629,917	1,576,301
Wages paid ..	£ 2,319,355	2,334,536	2,620,190	2,889,267	3,049,560
Value of fuel used ..	£ 126,949	133,154	149,706	151,146	151,716
Value of materials used ..	£ 4,508,641	4,284,216	5,499,891	6,986,405	7,921,884
Total value of output ..	£ 8,534,886	8,226,468	10,161,729	12,188,378	13,838,471
Value of production ..	£ 3,699,246	3,809,098	4,512,132	5,050,827	5,764,871

(iii) *Raw Material used and Production, 1941-42.* The main raw materials consumed in establishments manufacturing hosiery and other knitted goods during 1941-42 consisted of woollen yarn, 13,530,897 lb.; cotton yarn, 8,324,027 lb.; silk yarn, 330,808 lb.; and artificial silk yarn, 5,970,060 lb. Production comprised 42,540,504 garments, valued at £7,587,914; 1,857,504 dozen pairs of stockings, valued at £2,910,880; and 2,151,694 dozen pairs of socks, valued at £2,058,005.

18. **Tanning, Currying and Leather Dressing.**—(i) *Details for each State, 1941-42.* 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, 1941-42.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W.A.	Tas.	Aust.
Number of factories ..	68	41	14	9	5	2	139
Number of persons engaged ..	1,967	2,149	459	111	441	17	4,844
Value of land and buildings ..	£ 372,936	422,302	35,523	(a)	38,239	(a)	b 894,260
Value of plant and machinery ..	£ 235,504	228,515	44,679	(a)	26,688	(a)	b 548,288
Wages paid ..	£ 537,636	623,540	118,421	(a)	38,234	(a)	b 1,347,934
Value of fuel used ..	£ 42,548	60,941	8,271	(a)	2,805	(a)	b 116,914
Value of materials used ..	£ 2,187,252	1,986,465	529,277	(a)	155,488	(a)	b 4,969,830
Total value of output ..	£ 3,152,318	3,080,318	743,574	(a)	261,565	(a)	b 7,405,634
Value of production ..	£ 922,518	1,032,912	205,816	(a)	103,182	(a)	b 2,318,890

(a) Particulars not available for publication.

(b) Includes South Australia and Tasmania.

(ii) *Total for Australia, 1937-38 to 1941-42.* The development of the tanning industry during the years stated is shown in the following table :—

TANNING, CURRYING AND LEATHER DRESSING : AUSTRALIA.

Items.	1937-38.	1938-39.	1939-40.	1940-41.	1941-42.
Number of factories	131	132	132	137	139
Number of persons engaged	4,400	4,375	4,566	4,473	4,844
Value of land and buildings	£ 812,051	813,713	839,251	865,759	894,260
Value of plant and machinery	£ 524,125	523,538	538,801	544,890	548,288
Wages paid	£ 911,835	919,781	973,640	1,030,495	1,347,934
Value of fuel used	£ 89,699	87,670	96,219	100,944	116,914
Value of materials used	£ 3,502,252	2,983,041	3,909,992	4,043,285	4,969,830
Total value of output	£ 5,064,188	4,592,642	5,788,732	5,942,320	7,405,634
Value of production	£ 1,472,237	1,521,931	1,782,521	1,798,091	2,318,890

(iii) *Raw Material Used and Production, 1941-42.* 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, 1941-42.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia. (b)
Hides .. No.	874,330	933,763	294,755	(a)	89,600	(a)	2,261,355
Skins—							
Calf	631,835	572,657	152,914	1,774	355	..	1,359,535
Goat	780,014	128,729	(a)	(a)	..	..	910,976
Sheep	1,493,803	333,017	..	(a)	..	(a)	1,847,297
Marsupial	8,496	141,951	32,931	1,631	169	..	185,178
Pelts treated	2,049,564	(a)	(a)	..	..	..	2,626,488
Bark used—							
Wattle .. tons	9,220	6,891	2,274	1,000	(a)	(a)	19,622
Other	293	1,745	(a)	(a)	526	(a)	2,571
Tanning extract used lb.	8,594,144	5,890,705	3,100,216	(a)	1,867,232	(a)	19,562,621
Leather made—							
Sole and Belting ..	14,314,204	15,043,710	5,202,076	(a)	2,776,884	(a)	38,247,098
Harness	425,189	614,604	611,335	65,884	55,510	..	1,772,522
Upholstery .. sq. ft.	(a)	(a)	..	(a)	..	..	6,531,840
Dressed and Upper from Hides—							
Sold by Measurement—							
Patent sq. ft.	(a)	(a)	..	..	..	..	2,121,093
All Other ..	11,275,304	13,776,866	4,500,385	1,335,919	(a)	(a)	33,736,667
Sold by Weight—							
Waxed Kip lb.	(a)	18,694	(a)	19,319	4,837	(a)	101,137
All Other .. lb.	937,866	478,808	(a)	90,229	22,440	(a)	1,556,027
Dressed from skins—							
Calf .. sq. ft.	4,753,241	4,309,003	1,385,997	(a)	(a)	..	10,450,672
Goat	3,616,426	(a)	(a)	..	..	..	4,184,778
Sheep	10,602,537	2,015,410	(a)	(a)	..	..	13,297,947
Marsupial	21,925	349,796	200,574	(a)	3,375	(a)	576,810

(a) Not available for publication.

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

19. *Tailoring and Ready-made Factories.*—(i) *Details for each State, 1941-42.* The importance of this industry in each State is shown in the following table :—

TAILORING AND READY-MADE FACTORIES, 1941-42.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories	486	357	109	108	69	20	1,149
Number of persons engaged	13,334	8,687	2,984	2,108	883	382	28,378
Value of land and buildings	£ 1,717,816	967,990	240,733	241,643	137,802	58,174	3,364,458
Value of plant and machinery	£ 219,042	176,009	33,910	21,159	12,637	5,896	468,653
Wages paid	£ 2,031,748	1,442,093	377,853	296,963	123,541	53,190	4,325,388
Value of fuel used	£ 37,163	33,383	7,513	6,448	2,541	751	87,804
Value of materials used	£ 4,014,754	3,497,142	801,668	269,410	175,026	46,550	8,804,550
Total value of output	£ 7,149,652	5,855,608	1,422,788	719,781	371,006	130,261	15,649,096
Value of production	£ 3,097,735	2,325,078	613,607	443,923	193,439	82,960	6,756,742

(ii) *Total for Australia, 1937-38 to 1941-42.* Details for the last five years are as follows:—

TAILORING AND READY-MADE FACTORIES : AUSTRALIA.

Items.	1937-38.	1938-39.	1939-40.	1940-41.	1941-42.
Number of factories	1,172	1,177	1,162	1,154	1,149
Number of persons engaged	26,765	26,499	27,391	28,205	28,378
Value of land and buildings	£ 3,100,309	3,175,748	3,201,962	3,264,561	3,364,458
Value of plant and machinery	£ 332,814	355,503	396,819	420,907	468,653
Wages paid	£ 3,094,693	3,168,472	3,385,866	3,736,938	4,325,388
Value of fuel used	£ 66,834	72,431	72,717	81,121	87,804
Value of materials used	£ 5,123,268	4,946,519	5,626,338	6,834,626	8,804,550
Total value of output	£ 9,801,313	9,830,646	10,708,233	12,470,248	15,649,096
Value of production	£ 4,611,211	4,811,696	5,009,178	5,554,501	6,756,742

20. Dressmaking and Millinery Establishments.—(i) *Details for each State, 1941-42.* Particulars of dressmaking and millinery establishments are given separately in the following tables:—

DRESSMAKING ESTABLISHMENTS, 1941-42.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas. (a)	Australia.
Number of factories	117	435	40	56	37	9	694
Number of persons engaged	1,535	8,215	919	818	666	74	12,227
Value of land and buildings	£ 200,597	1,207,703	75,481	71,419	74,957	7,200	1,637,357
Value of plant and machinery	£ 14,348	114,431	13,120	11,502	8,052	2,233	163,686
Wages paid	£ 174,470	1,114,935	91,255	82,876	64,079	4,750	1,532,395
Value of fuel used	£ 2,104	19,548	1,711	1,845	1,111	147	26,447
Value of materials used	£ 145,661	2,477,748	118,931	81,297	96,894	2,959	2,923,490
Total value of output	£ 392,349	4,465,372	262,942	223,640	211,641	11,538	5,567,482
Value of production	£ 244,584	1,968,076	142,300	140,498	113,629	8,432	2,617,519

(a) Includes Millinery.

MILLINERY ESTABLISHMENTS, 1941-42.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas. (a)	Australia.
Number of factories	54	57	15	12	5	..	143
Number of persons engaged	1,296	1,060	416	226	39	..	3,037
Value of land and buildings	£ 228,261	133,469	35,480	24,915	3,080	..	425,205
Value of plant and machinery	£ 14,122	14,901	6,298	1,728	212	..	37,261
Wages paid	£ 172,856	146,870	47,291	23,127	4,029	..	394,173
Value of fuel used	£ 5,221	3,666	974	934	73	..	10,868
Value of materials used	£ 262,648	210,416	69,203	38,402	6,611	..	587,280
Total value of output	£ 584,739	486,729	143,180	78,654	12,078	..	1,305,380
Value of production	£ 316,870	272,647	73,003	39,318	5,394	..	707,232

(a) Included in Dressmaking.

(ii) *Total for Australia, 1937-38 to 1941-42.* 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.	1937-38.	1938-39.	1939-40.	1940-41.	1941-42.
Number of factories	871	869	840	848	837
Number of persons engaged	16,426	16,398	15,950	16,087	15,264
Value of land and buildings	£ 2,023,371	2,051,611	2,043,726	2,125,668	2,062,562
Value of plant and machinery	£ 194,553	189,263	188,690	197,836	200,947
Wages paid	£ 1,588,231	1,652,808	1,649,017	1,817,518	1,926,568
Value of fuel used	£ 32,157	33,067	33,442	35,974	37,341
Value of materials used	£ 2,801,184	2,609,363	2,672,435	3,205,274	3,510,770
Total value of output	£ 5,302,983	5,234,727	5,271,713	6,149,593	6,872,862
Value of production	£ 2,469,642	2,592,297	2,565,866	2,908,315	3,324,751

21. Shirts, Collars and Underclothing.—(i) *Details for each State, 1941-42.* Particulars of this industry are shown in the following table :—

SHIRTS, COLLARS AND UNDERCLOTHING, 1941-42.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories ..	136	92	17	30	13	..	288
Number of persons engaged ..	4,789	3,684	1,028	623	616	..	10,740
Value of land and buildings £	480,273	404,963	55,186	34,339	34,953	..	1,009,714
Value of plant and machinery £	99,542	102,463	15,356	14,066	13,303	..	244,730
Wages paid ..	£ 643,384	£ 527,749	£ 120,097	£ 73,370	£ 68,392	..	£ 1,432,992
Value of fuel used ..	£ 10,844	£ 11,139	£ 1,965	£ 1,694	£ 984	..	£ 26,626
Value of materials used ..	£ 2,190,803	£ 1,597,851	£ 222,966	£ 75,915	£ 117,898	..	£ 4,205,433
Total value of output ..	£ 3,301,019	£ 2,533,147	£ 403,043	£ 176,251	£ 209,541	..	£ 6,623,001
Value of production ..	£ 1,099,372	£ 924,157	£ 178,112	£ 98,642	£ 90,659	..	£ 2,390,942

(ii) *Total for Australia, 1937-38 to 1941-42.* The following table shows the progress of the industry since 1937-38 :—

SHIRTS, COLLARS AND UNDERCLOTHING : AUSTRALIA.

Items.	1937-38.	1938-39.	1939-40.	1940-41.	1941-42.
Number of factories ..	289	283	279	282	288
Number of persons engaged ..	11,134	11,081	11,444	11,078	10,740
Value of land and buildings £	910,595	945,972	929,306	962,681	1,009,714
Value of plant and machinery £	229,797	230,579	231,109	244,640	244,730
Wages paid ..	£ 1,096,013	£ 1,142,855	£ 1,216,483	£ 1,264,067	£ 1,432,992
Value of fuel used ..	£ 23,845	£ 23,639	£ 25,599	£ 25,611	£ 26,626
Value of materials used ..	£ 2,788,667	£ 2,650,779	£ 3,032,966	£ 3,497,898	£ 4,205,433
Total value of output ..	£ 4,522,879	£ 4,435,209	£ 4,979,989	£ 5,559,702	£ 6,623,001
Value of production ..	£ 1,710,367	£ 1,760,791	£ 1,921,420	£ 2,036,193	£ 2,390,942

22. Boot Factories.—(i) *Boot and Shoe Factories, 1941-42.* 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, 1941-42.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories ..	105	164	21	15	10	3	318
Number of persons engaged ..	6,244	9,814	958	984	453	75	18,528
Value of land and buildings £	528,457	649,575	34,824	58,807	47,541	5,020	1,324,224
Value of plant and machinery £	276,634	438,753	68,560	97,376	51,646	1,959	934,928
Wages paid ..	£ 1,281,105	£ 2,123,570	£ 183,210	£ 181,485	£ 89,698	£ 15,212	£ 3,874,280
Value of fuel used ..	£ 19,419	£ 38,382	£ 2,541	£ 3,462	£ 2,204	£ 239	£ 66,247
Value of materials used ..	£ 2,510,712	£ 4,264,292	£ 392,520	£ 455,302	£ 258,860	£ 34,771	£ 7,916,457
Total value of output ..	£ 4,353,381	£ 7,672,775	£ 650,141	£ 737,102	£ 374,908	£ 54,079	£ 13,842,386
Value of production ..	£ 1,823,250	£ 3,370,101	£ 255,080	£ 278,338	£ 113,844	£ 19,069	£ 5,859,682

(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 1941-42 the number amounted to 1,279 in which 2,356 persons were engaged in the industry. The sum of £209,984 was distributed in salaries and wages, and the output was valued at £1,084,303.

(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, 1941-42.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
QUANTITY.							
Boots and shoes	pairs 6,300,940	8,862,141	881,797	1,077,333	476,907	70,803	17,669,921
Slippers	" 3,313,771	3,869,409	557,078	22,644	436,747	..	8,199,049
Uppers (c)	" 16,462	4,251	(a)	(a)	148	..	(b) 89,433
VALUE.							
Boots and shoes	£ 3,839,096	6,005,405	561,262	716,260	318,797	53,954	11,494,774
Slippers	£ 443,818	600,010	77,870	2,460	54,507	..	1,178,665
Uppers (c)	£ 7,340	5,054	(a)	(a)	79	..	(b) 22,627

(a) Not available for publication. (b) Includes particulars for States marked (a). (c) Made for other than factory use.

23. **Grain-milling.**—(i) *Details for States, 1941-42.* The following table shows the position of the grain-milling industry in each State :—

GRAIN-MILLING, 1941-42.

Item .	N.S.W.	Victoria.	Q'land.	S. Aust. (a)	W. Aust.	Tas. (a)	Australia.
Number of factories ..	53	36	9	37	18	10	163
Number of persons engaged ..	1,226	961	338	409	451	128	3,513
Value of land and buildings	£ 818,741	656,432	185,709	167,814	254,766	70,782	2,154,244
Value of plant and machinery	£ 686,559	508,082	136,017	223,898	180,334	24,465	1,759,355
Wages paid ..	£ 366,835	271,217	94,582	110,987	120,028	30,042	937,691
Value of fuel used ..	£ 80,710	62,196	19,690	32,603	38,220	4,904	238,323
Value of materials used	£ 4,681,341	3,291,324	1,079,327	1,218,657	1,379,698	312,618	11,962,965
Total value of output	£ 5,636,031	3,859,135	1,314,567	1,450,028	1,657,325	377,598	14,294,684
Value of production ..	£ 873,980	505,615	215,550	198,768	239,407	60,076	2,093,396

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

(ii) *Production of Flour and By-products, 1937-38 to 1941-42.* 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)
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
1940-41 ..	577,759	452,812	88,851	131,325	149,925	17,057	1,417,729
1941-42 ..	448,529	312,147	92,609	117,842	135,338	20,735	1,127,200

(a) Tons of 2,000 lb.

The production of flour in Australia for 1941-42, 1,127,200 tons, was valued at £10,676,482. In addition, 470,824 tons of bran and pollard, valued at £2,721,474, were made. The quantity of wheat ground was 56,513,878 bushels.

24. Bakeries.—Information regarding establishments in which the manufacture of bread, cakes, etc., was carried on in the year 1941-42 is given in the table below. It should be noted, however, that, as explained in § 1 par 2 p. 647 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), 1941-42.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.(a)	Australia.
Number of factories ..	808	592	257	154	143	81	2,035
Number of persons engaged ..	4,462	3,346	1,446	1,043	559	1,234	12,090
Value of land and buildings £	2,506,818	1,249,467	462,109	305,317	209,300	348,327	5,081,368
Value of plant and machinery £	630,144	442,782	153,672	138,355	61,618	132,516	1,559,087
Wages paid ..	£ 924,341	667,975	242,658	195,398	103,407	205,114	2,338,893
Value of fuel used ..	£ 169,774	109,454	36,469	31,976	18,124	26,514	392,311
Value of materials used	£ 3,019,067	2,420,181	931,446	658,891	398,286	577,376	8,005,247
Total value of output	£ 5,092,152	4,141,700	1,547,899	1,113,169	652,149	950,539	13,497,668
Value of production ..	£ 1,903,311	1,612,065	579,984	422,302	236,129	346,259	5,100,050

(a) Includes Confectionery.

25. Sugar-mills.—(i) *Details for 1941-42.*—The following table shows the position of the cane-crushing branch of the sugar-making industry in New South Wales and Queensland in 1941-42. Sugar-cane is not grown in the other States. Details regarding the area, yield, etc., of sugar-cane will be found in Chapter XXII. "Agricultural Production".

SUGAR-MILLS, 1941-42.

Items.	N.S.W.	Queensland.	Australia.
Number of factories ..	3	33	36
Number of persons engaged ..	260	4,100	4,360
Value of land and buildings ..	£ 260,271	1,137,238	1,397,509
Value of plant and machinery ..	£ 991,577	7,171,668	8,163,245
Wages paid ..	£ 116,067	1,282,334	1,398,401
Value of fuel used ..	£ 25,951	132,975	158,926
Value of materials used ..	£ 535,052	9,458,615	9,993,667
Total value of output ..	£ 833,127	12,338,307	13,171,434
Value of production ..	£ 272,124	2,746,717	3,018,841

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.	1938-39.	1939-40.	1940-41.	1941-42.
Number of factories ..	4	3	3	3	3
Number of employees ..	469	212	209	306	260
Cane crushed .. tons	147,799	337,038	274,548	343,171	359,433
Sugar produced ..	17,299	45,106	36,938	47,041	48,336
Molasses produced .. gals.	796,440	1,489,090	1,338,802	1,317,280	1,771,200

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 XXII. "Agricultural Production" has resulted in considerable progress in the cultivation of sugar-cane and increased activity in milling. Particulars regarding cane crushed and sugar produced embodied in these tables refer to the quantities treated during the years ended 30th June 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 XXII. "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.	1938-39.	1939-40.	1940-41.	1941-42.
Number of factories ..	49	33	33	33	33
Number of persons engaged ..	4,295	4,419	4,519	4,506	4,100
Cane crushed .. tons	1,534,451	5,432,193	6,038,821	5,180,868	4,794,178
Sugar produced .. "	173,296	775,064	891,738	759,416	697,644
Molasses—					
Sold to distillers and others .. gals.	2,393,669	8,275,887	9,581,241	11,531,396	9,996,390
Used as fodder .. "	789,564	4,237,196	4,727,170	5,380,242	2,827,350
Used as manure .. "	223,000	3,293,543	4,295,289	3,334,372	1,499,250
Run to waste .. "		498,926	457,541	47,069	10,310
Burnt as fuel .. "	1,847,333	3,748,590	3,834,653	1,781,425	1,152,134
Sold or used for other purposes .. "		232,049	188,889	228,450	106,720
In stock .. "	1,197,626				
Total molasses .. "	6,451,192	20,286,191	23,084,783	22,302,954	15,592,154

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 1941-42 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 428,858 tons, for a yield of 414,859 tons of refined sugar, valued at £13,233,059.

27. *Confectionery Factories.*—(i) *Details for each State, 1941-42.* 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 following figures for 1941-42 show the remarkable development since 1900:—

SUGAR CONFECTIONERY FACTORIES, (a) 1941-42.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas. (b)	Australia.
Number of factories ..	70	71	19	17	8	1	186
Number of persons engaged ..	3,711	2,488	554	338	385	5	7,481
Value of land and buildings .. £	1,002,502	613,591	214,060	80,766	(c)	(c)	(d) 1,991,097
Value of plant and machinery .. £	865,196	556,497	107,809	53,368	(c)	(c)	(d) 1,653,210
Wages paid ..	717,103	499,924	86,062	43,414	(c)	(c)	(d) 1,403,263
Value of fuel used ..	69,943	57,364	12,612	10,323	(c)	(c)	(d) 157,975
Value of materials used ..	2,205,264	1,352,580	255,633	164,192	(c)	(c)	(d) 4,165,368
Total value of output ..	4,139,832	2,697,809	515,053	254,004	(c)	(c)	(d) 7,962,482
Value of production ..	1,914,625	1,287,865	246,808	79,489	(c)	(c)	(d) 3,639,139

(a) Includes Chocolate and Ice Cream.

(b) Ice Cream factories—Other Confectionery included in Bakeries.

(c) Not available for publication.

(d) Includes particulars of States marked (c).

(ii) *Total for Australia, 1937-38 to 1941-42.*—Particulars of the confectionery industry during the last five years are shown in the following table :—

SUGAR CONFECTIONERY FACTORIES(a) : AUSTRALIA.

Items.	1937-38.	1938-39.	1939-40.	1940-41.	1941-42.
Number of factories	204	209	211	202	186
Number of persons engaged	8,235	8,276	8,205	8,193	7,481
Value of land and buildings	£ 2,042,198	2,079,601	2,067,466	2,172,872	1,991,097
Value of plant and machinery	£ 1,830,166	1,854,398	1,828,060	1,828,898	1,653,210
Wages paid	£ 1,179,223	1,231,375	1,264,929	1,360,498	1,403,263
Value of fuel used	£ 141,459	144,349	147,086	157,744	157,975
Value of materials used	£ 3,555,710	3,704,774	3,837,190	4,341,473	4,165,368
Total value of output	£ 6,660,655	7,107,045	7,457,814	8,100,217	7,962,482
Value of production	£ 2,963,486	3,257,922	3,473,538	3,601,000	3,639,139

(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, 1941-42.* The following table gives particulars of factories included in this class for 1941-42 :—

JAM AND FRUIT PRESERVING, PICKLES, ETC., FACTORIES, 1941-42.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories	41	49	14	16	9	10	139
Number of persons engaged	2,644	3,967	555	544	94	957	8,761
Value of land and buildings	£ 494,499	745,373	58,054	115,671	23,562	147,432	1,584,591
Value of plant and machinery	£ 277,979	395,078	63,101	38,404	8,093	37,534	820,189
Wages paid	£ 555,968	847,893	105,986	89,692	14,772	207,709	1,822,020
Value of fuel used	£ 44,196	74,799	8,458	8,640	1,648	18,746	156,487
Value of materials used	£ 2,033,987	3,882,183	697,235	313,710	57,149	883,679	7,867,943
Total value of output	£ 3,442,711	5,807,778	941,090	475,112	92,210	1,251,793	12,010,694
Value of production	£ 1,364,528	1,850,796	235,397	152,762	33,413	349,368	3,986,264

(ii) *Total for Australia, 1937-38 to 1941-42.* 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.	1937-38.	1938-39.	1939-40.	1940-41.	1941-42.
Number of factories	121	123	128	138	139
Number of persons engaged	6,596	6,476	7,249	7,699	8,761
Value of land and buildings	£ 1,309,014	1,382,150	1,502,256	1,546,101	1,584,591
Value of plant and machinery	£ 665,863	720,639	767,923	814,470	820,189
Wages paid	£ 1,143,190	1,148,991	1,300,929	1,483,118	1,822,020
Value of fuel used	£ 93,055	97,521	108,609	129,969	156,487
Value of materials used	£ 4,571,219	4,799,515	5,871,887	6,660,681	7,867,943
Total value of output	£ 6,974,291	7,230,914	8,947,287	10,303,543	12,010,694
Value of production	£ 2,310,017	2,333,878	2,966,701	3,512,893	3,986,264

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 150,652,649 lb. in 1941-42. The output of preserved fruit reached the record dimensions of 157,761,000 lb. in 1937-38. Production in 1941-42 was slightly lower at 131,821,958 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 1941-42 :—

JAMS, PRESERVED FRUIT, PICKLES AND SAUCES : OUTPUT, 1941-42.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
QUANTITY.							
Jams and Jellies .. '000 lb.	37,193	64,393	10,662	8,634	1,347	28,424	150,653
Fruit Pulp—							
Consumed in own works .. cwt.	20,819	47,207	7,108	9,374	3,189	1,317	89,014
For sale or addition to stock .. cwt.	73,062	92,608	4,029	2,925	1,665	120,798	295,087
Tomato Pulp—							
Consumed in own works .. cwt.	27,889	74,013	469	4,660	5,891	..	112,922
For sale or addition to stock .. cwt.	10,836	155,504	(a)	6,098	6,388	(a)	1184,754
Fruit, preserved .. '000 lb.	23,310	73,923	26,742	2,988	4	4,855	131,822
Pickles .. '000 pints	3,059	3,737	500	2,177	209	30	9,712
Sauces	8,623	11,790	833	1,933	877	138	24,194

VALUE.

Jams and Jellies ..	£ 1,022,259	1,610,774	310,834	185,731	34,288	711,549	3,875,435
Fruit, preserved ..	£ 587,752	1,513,998	474,732	61,885	78	89,789	2,728,234
Pickles	£ 147,340	130,800	24,446	86,494	6,977	1,125	397,182
Sauces	£ 460,343	439,804	35,332	65,558	25,153	2,529	1,028,719

(a) Not available for publication.

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

29. *Bacon-curing Factories.*—(i) *Details for each State, 1941-42.* The table hereunder gives particulars of factories engaged in bacon-curing in each State for 1941-42 :—

BACON-CURING FACTORIES, 1941-42.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	27	16	8	9	7	11	78
Number of persons engaged ..	494	568	768	281	174	66	2,351
Value of land and buildings ..	£ 211,385	220,133	203,613	94,677	36,096	22,622	788,526
Value of plant and machinery ..	£ 66,446	106,997	124,047	34,177	21,199	9,161	362,027
Wages paid	£ 147,715	151,523	204,845	67,283	47,437	12,688	631,491
Value of fuel used	£ 17,263	21,807	27,938	14,450	10,287	1,638	93,383
Value of materials used	£ 1,315,878	1,060,084	1,565,533	441,566	576,983	124,293	5,084,337
Total value of output	£ 1,637,085	1,330,184	1,968,632	556,741	655,976	153,915	6,303,433
Value of production	£ 304,844	248,293	375,161	100,725	68,706	27,984	1,125,713

(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 1941-42 are given in the following table:—

BACON-CURING FACTORIES : PIGS CURED AND PRODUCTION, 1941-42.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
PIGS CURED.							
Pigs cured on own account No.	290,053	187,424	289,933	90,486	77,341	24,650	959,887
Pigs cured on commission ..	22,328	2,190	1,475	563	839	538	27,933
Total	312,381	189,614	291,408	91,049	78,180	25,188	987,820
PRODUCTS.							
Bacon and ham .. '000 lb.	33,752	18,740	24,383	8,145	6,112	1,780	92,912
Lard "	922	1,294	1,311	248	356	52	4,183
VALUE.							
Bacon and ham (a) £	1,968,089	1,006,806	1,286,299	392,823	284,937	86,887	5,025,841
Lard £	19,512	33,210	27,792	5,481	6,549	1,326	93,870

(a) Partly estimated.

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

30. *Butter, Cheese and Condensed Milk Factories.*—(i) *Details for each State, 1941-42.* The following table gives particulars of butter, cheese and condensed milk factories in each State:—

BUTTER, CHEESE AND CONDENSED MILK FACTORIES, 1941-42.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.A.	Tas.	Australia.
Number of factories ..	121	165	98	51	21	43	499
Number of persons engaged ..	1,764	3,899	1,384	708	260	219	8,234
Value of land and buildings £	738,509	1,406,777	738,138	231,286	83,347	60,172	3,258,229
Value of plant and machinery £	884,657	1,460,847	841,622	174,765	84,513	73,908	3,520,312
Wages paid ..	451,940	1,080,111	336,865	160,576	65,783	40,538	2,135,819
Value of fuel used ..	139,796	299,853	81,095	35,330	19,100	7,033	582,207
Value of materials used ..	6,360,436	12,428,944	6,751,161	1,748,494	1,150,454	549,516	28,989,005
Total value of output ..	7,255,373	15,001,698	7,548,217	2,073,337	1,361,140	660,484	33,900,249
Value of production ..	755,141	2,272,901	715,961	289,513	191,586	103,935	4,329,037

(ii) *Total for Australia, 1937-38 to 1941-42.* 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.	1937-38.	1938-39.	1939-40.	1940-41.	1941-42.
Number of factories ..	520	523	520	518	499
Number of persons engaged ..	6,655	6,851	7,259	7,686	8,234
Value of land and buildings ..	£ 2,779,663	2,880,323	3,013,955	3,143,908	3,258,229
Value of plant and machinery ..	£ 2,977,640	3,066,840	3,216,389	3,388,674	3,520,312
Wages paid ..	£ 1,486,780	1,569,531	1,727,665	1,871,871	2,135,819
Value of fuel used ..	£ 362,217	389,501	433,868	474,110	582,207
Value of materials used ..	£ 27,187,350	29,761,983	31,654,320	30,153,314	28,989,005
Total value of output ..	£ 31,656,156	33,094,851	36,343,543	34,804,895	33,900,249
Value of production ..	£ 4,106,580	3,543,367	4,255,355	4,177,471	4,329,037

(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 1941-42 :—

BUTTER, CHEESE AND CONDENSED MILK FACTORIES : PRODUCTION, 1941-42.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Australia.
MILK USED (,000 OMITTED).							
For the manufacture of—							
Butter .. gals.	168,915	303,832	195,402	34,250	32,501	16,565	751,465
Cheese .. "	5,371	22,958	15,408	18,116	1,182	2,948	65,983
Condensed, &c., Milk .. "	15,376	44,500	..	(a)	(a)	..	(b)63,070
PRODUCTS (,000 OMITTED).							
Butter .. lb.	85,116	137,890	95,673	17,722	15,659	8,059	360,121
Cheese .. "	5,225	22,484	(c) 16,334	18,903	1,299	3,069	67,314
Condensed and concentrated milk .. lb.	26,068	79,385	..	(a)	(a)	..	b)117,505
Powdered milk .. "	6,631	33,479	..	..	..	..	40,110
VALUE (,000 OMITTED).							
Butter .. £	5,509	8,913	6,138	1,131	1,091	516	23,298
Cheese .. £	222	814	(c) 607	721	57	113	2,534
Condensed and concentrated milk .. £	471	2,127	..	(a)	(a)	..	(b) 2,955
Powdered milk .. £	328	1,305	..	..	..	..	1,633

(a) Not available for publication. (b) Includes particulars for States marked (a). (c) Includes 1,417,653 lb. of cheese, valued at £55,871, made in establishments not classified as factories.

The butter, cheese and condensed milk industries are dealt with more fully in Chapter XXIII. "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 XXI. "Pastoral Production".

MEAT AND FISH PRESERVING WORKS,(a) 1941-42.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	8	11	13	3	5	3	43
Number of persons engaged ..	920	1,039	5,139	80	106	43	7,327
Value of land and buildings £	93,239	108,101	1,616,049	7,973	399,013	21,810	2,246,176
Value of plant and machinery £	94,143	74,100	955,477	8,553	401,177	20,405	1,553,855
Wages paid .. £	197,931	254,393	1,594,686	18,251	68,748	9,777	2,140,786
Value of fuel used .. £	19,379	17,436	199,427	1,046	8,612	1,015	246,915
Value of materials used £	1,018,547	1,721,924	7,988,333	141,467	166,194	13,724	11,049,189
Total value of output £	1,360,510	2,240,701	10,386,759	178,469	276,556	33,892	14,476,887
Value of production .. £	322,584	501,341	2,198,999	35,956	101,750	20,153	3,180,783

(a) Includes meat extracts.

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

32. Breweries.—(i) *Details for each State, 1941-42.* The following table gives particulars relating to breweries in each State :—

BREWERIES, 1941-42.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	6	8	6	5	6	2	33
Number of persons engaged ..	1,125	1,726	439	292	514	83	4,179
Value of land and buildings ..	£ 1,165,111	772,397	490,303	(a)	295,326	(a)	b 3,199,623
Value of plant and machinery ..	£ 808,842	899,401	384,714	(a)	334,729	(a)	b 2,856,982
Wages paid ..	£ 368,867	634,350	145,237	(a)	174,776	(a)	b 1,462,743
Value of fuel used ..	£ 98,024	101,549	39,096	(a)	33,937	(a)	b 310,574
Value of materials used ..	£ 1,508,752	1,954,969	494,584	(a)	416,495	(a)	b 4,821,610
Total value of output ..	£ 4,492,784	3,504,521	1,114,091	(a)	1,077,147	(a)	b 11,212,151
Value of production ..	£ 2,886,008	1,448,003	580,411	(a)	626,715	(a)	b 6,079,967

(a) Not available for publication.

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

(ii) *Total for Australia, 1937-38 to 1941-42.* The next table shows the extent of this industry for the last five years :—

BREWERIES : AUSTRALIA.

Items.	1937-38.	1938-39.	1939-40.	1940-41.	1941-42.
Number of factories ..	35	34	34	33	33
Number of persons engaged ..	3,532	3,698	3,848	4,107	4,179
Value of land and buildings ..	£ 2,678,983	2,801,147	2,851,337	3,048,505	3,199,623
Value of plant and machinery ..	£ 2,642,636	2,737,042	2,778,290	2,881,920	2,856,982
Wages paid ..	£ 1,148,487	1,215,473	1,270,295	1,317,754	1,462,743
Value of fuel used ..	£ 234,023	251,286	272,821	283,288	310,574
Value of materials used ..	£ 3,217,511	3,406,572	3,566,390	4,347,747	4,821,610
Total value of output ..	£ 8,507,086	9,030,309	9,509,295	10,786,546	11,212,151
Value of production ..	£ 5,054,652	5,372,451	5,670,084	6,155,511	6,079,967

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 109,155,107 gallons in 1941-42. For a number of years prior to the depression the consumption of ale, stout and beer exceeded 11 gallons per head of the population ; it dropped to 7.32 gallons in 1931-32, but has since risen to 13.76 gallons in 1941-42 and declined to 12.58 gallons in 1942-43.

(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 1941-42.

BREWERIES : MATERIALS USED AND PRODUCTION, 1941-42.

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

Malt .. bushels	1,293,395	1,226,263	307,112	(b)	284,630	(b)	(c) 3,501,114
Hops .. lb.	976,871	964,736	243,679	(b)	185,603	(b)	(c) 2,676,502
Sugar .. cwt.	175,400	152,480	33,680	(b)	21,440	(b)	(c) 426,000

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

Malt .. bushels	30.01	32.39	33.01	35.74	33.95	41.76	32.10
Hops .. lb.	22.67	23.49	26.20	30.34	22.14	24.31	24.54
Sugar .. cwt.	4.07	4.03	3.62	4.47	2.56	2.69	3.91

ALE, STOUT AND BEER BREWED.

Quantity gallons	43,093,051	37,853,034	9,301,652	(b)	8,384,387	(b)	c109,155,107
Value (a) £	4,438,736	3,477,000	1,112,101	(b)	1,044,783	(b)	c11,090,144

(a) Excludes Excise duty.

(b) Not available for publication.

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

33. **Distilleries.**—Distilleries are located in all the States except Western Australia and Tasmania. The following 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 1941-42:—Materials used; barley, 77,694 bushels; barley malt, 192,979 bushels; molasses, 1,620,391 cwt.; wine, 10,464,798 gallons; raisins and currants, 28,935 cwt.; grapes, 75,169 cwt. The quantity of spirits distilled, in terms of proof gallons, was, from barley, malt and grain, 958,009 gallons; from molasses, 17,056,871 gallons; from wine, 2,170,582 gallons; and from other materials, 76,260 gallons or a total of 20,261,719 proof gallons. The quantity of spirits denatured during the year was 14,758,311 proof gallons.

34. **Tobacco, etc., Factories.**—(i) *Details for each State, 1941-42.* During 1941-42 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, 1941-42.

Items.	N.S.W.	Victoria.	Q'land.	S Aust.	W. Aust.	Australia.
Number of factories	7	11	4	1	1	24
Number of persons engaged	3,074	2,278	31	11	177	5,571
Value of land and buildings	£ 619,785	346,510	(a)	(a)	(a)	(b) 992,218
Value of plant and machinery	£ 548,111	300,954	(a)	(a)	(a)	(b) 868,050
Wages paid	£ 678,328	520,393	(a)	(a)	(a)	(b) 1,227,592
Value of fuel used	£ 27,104	11,747	(a)	(a)	(a)	(b) 39,743
Value of materials used	£ 5,594,405	2,849,519	(a)	(a)	(a)	(b) 8,516,671
Total value of output	£ 7,423,873	4,495,754	(a)	(a)	(a)	(b) 12,062,052
Value of production	£ 1,802,364	1,634,488	(a)	(a)	(a)	(b) 3,505,638

(a) Not available for publication.

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

(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 1941-42 comprised—manufactured tobacco 384,267 lb., cigars 396 lb., and cigarettes 128,684 lb., and the quantities manufactured in Australian factories were respectively 17,682,957 lb., 233,658 lb., and 8,712,827 lb. The following tables show the extent of the industry in Australia for the last five years:—

TOBACCO, CIGAR AND CIGARETTE FACTORIES: AUSTRALIA.

Items.	1937-38.	1938-39.	1939-40.	1940-41.	1941-42.
Number of factories	32	30	24	25	24
Number of employees	5,644	5,544	5,473	5,509	5,571
Value of land and buildings	£ 1,030,344	1,041,798	1,019,160	1,002,483	992,218
Value of plant and machinery	£ 932,827	942,644	910,204	895,125	868,050
Wages paid	£ 1,074,196	1,095,912	1,085,548	1,098,773	1,227,592
Value of fuel used	£ 34,344	34,483	36,203	36,683	39,743
Value of materials used	£ 6,861,305	7,080,574	7,194,063	7,787,045	8,516,671
Total value of output	£ 9,510,121	9,800,413	10,239,867	10,994,180	12,062,052
Value of production	£ 2,614,472	2,685,356	3,009,601	3,170,452	3,505,638

LEAF USED AND PRODUCTION.

Leaf used	Australian (Stemmed)	Imported (")	'000 lb.	4,231	4,489	4,730	4,889	4,925
Tobacco made	15,993	16,011	16,521	16,813	18,239
Cigars made	16,259	16,305	16,570	16,372	17,683
Cigarettes made	256	238	208	224	234
	6,325	6,731	7,282	7,806	8,713

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 4.9 million lb. in 1941-42. In this connexion, see Chapter XXII. "Agricultural Production".

35. Sawmills, etc.—(i) *Details for States, 1941-42.* 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, 1941-42.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	572	301	367	49	127	211	1,627
Number of persons engaged ..	6,009	4,102	5,973	1,148	2,044	1,770	21,046
Value of land and buildings £	763,348	405,507	388,878	218,541	202,001	104,978	2,083,313
Value of plant and machinery ..	£ 738,744	£ 674,860	£ 685,951	£ 200,709	£ 405,412	£ 269,808	£ 2,975,484
Wages paid ..	£ 1,331,567	£ 1,019,826	£ 1,226,153	£ 280,706	£ 493,347	£ 350,310	£ 4,701,909
Value of fuel used ..	£ 78,670	£ 70,380	£ 65,058	£ 14,411	£ 38,305	£ 25,200	£ 292,024
Value of materials used ..	£ 3,259,784	£ 2,074,480	£ 2,386,389	£ 911,886	£ 729,873	£ 534,189	£ 9,946,601
Total value of output ..	£ 5,494,954	£ 3,860,471	£ 4,381,328	£ 1,406,918	£ 1,525,609	£ 1,155,197	£ 17,824,477
Value of production ..	£ 2,156,500	£ 1,715,611	£ 1,929,881	£ 480,621	£ 757,431	£ 545,808	£ 7,585,852

(ii) *Total for Australia, 1937-38 to 1941-42.* The development of forest and other sawmills, etc., since 1937-38 is shown in the following table:—

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

Items.	1937-38.	1938-39.	1939-40.	1940-41.	1941-42.
Number of establishments ..	1,659	1,660	1,621	1,594	1,627
Number of persons engaged ..	19,565	19,104	19,742	20,607	21,046
Value of land and buildings ..	£ 2,025,857	£ 2,054,611	£ 2,047,363	£ 2,001,873	£ 2,083,313
Value of plant and machinery ..	£ 2,807,747	£ 2,785,716	£ 2,818,503	£ 2,892,865	£ 2,975,484
Wages paid ..	£ 3,601,453	£ 3,634,627	£ 3,872,262	£ 4,214,338	£ 4,701,909
Value of fuel used ..	£ 225,537	£ 225,782	£ 244,530	£ 260,661	£ 292,024
Value of materials used ..	£ 8,975,242	£ 8,522,895	£ 9,356,918	£ 9,550,006	£ 9,946,601
Total value of output ..	£ 15,092,088	£ 14,537,888	£ 15,816,593	£ 16,573,182	£ 17,824,477
Value of production ..	£ 5,891,309	£ 5,789,211	£ 6,215,145	£ 6,763,115	£ 7,585,852

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 914 million super. feet in 1941-42. Further reference is made to the sawmilling industry in Chapter XXIV. "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 1941-42:—

FURNITURE, CABINET-MAKING AND UPHOLSTERY FACTORIES, 1941-42.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W.Aust.	Tas.	Australia.
Number of factories ..	217	272	94	71	78	34	766
Number of persons engaged ..	3,719	2,846	1,302	947	513	311	9,638
Value of land and buildings £	£ 707,171	£ 638,705	£ 223,448	£ 122,883	£ 112,521	£ 42,687	£ 1,847,415
Value of plant and machinery ..	£ 196,651	£ 134,057	£ 63,453	£ 52,284	£ 27,458	£ 13,617	£ 487,520
Wages paid ..	£ 957,857	£ 628,912	£ 287,099	£ 191,334	£ 101,955	£ 54,064	£ 2,221,221
Value of fuel used ..	£ 26,848	£ 18,245	£ 7,347	£ 6,858	£ 2,726	£ 1,314	£ 63,338
Value of materials used ..	£ 1,611,957	£ 1,143,989	£ 445,707	£ 333,630	£ 181,666	£ 68,073	£ 3,785,022
Total value of output ..	£ 3,086,038	£ 2,296,287	£ 870,245	£ 641,702	£ 358,189	£ 148,639	£ 7,401,100
Value of production ..	£ 1,447,233	£ 1,134,053	£ 417,191	£ 301,214	£ 173,797	£ 79,252	£ 3,552,740

37. **Printing Works.**—Printing and bookbinding works rank high in importance among the industries of Australia, and in 1941-42 afforded employment for about 24,700 employees, and paid nearly £5,900,000 in salaries and wages, while the value of output amounted to £17,941,000. The following table gives particulars of establishments engaged in general printing in each State for 1941-42. 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 following table :—

GOVERNMENT AND GENERAL PRINTING WORKS, 1941-42.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	335	392	86	64	71	19	967
Number of persons engaged ..	6,354	6,146	1,543	1,023	753	416	16,235
Value of land and buildings ..	£ 1,495,157	£ 1,731,456	£ 347,973	£ 218,980	£ 211,878	£ 79,623	£ 4,085,067
Value of plant and machinery ..	£ 1,266,804	£ 1,106,389	£ 181,979	£ 210,276	£ 151,799	£ 77,979	£ 2,995,726
Wages paid ..	£ 1,396,929	£ 1,330,816	£ 297,389	£ 199,076	£ 151,871	£ 88,602	£ 3,464,683
Value of fuel used ..	£ 39,806	£ 45,449	£ 10,399	£ 7,990	£ 5,179	£ 2,377	£ 111,200
Value of materials used ..	£ 2,014,637	£ 1,965,893	£ 337,706	£ 225,400	£ 192,644	£ 75,800	£ 4,812,080
Total value of output ..	£ 4,577,751	£ 4,384,922	£ 850,391	£ 550,115	£ 509,104	£ 231,873	£ 11,104,156
Value of production ..	£ 2,523,308	£ 2,373,580	£ 502,286	£ 315,725	£ 311,281	£ 153,696	£ 6,180,876

ESTABLISHMENTS PRODUCING NEWSPAPERS (INCLUDING WEEKLY PUBLICATIONS), 1941-42.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories ..	197	114	55	35	32	6	439
Number of persons engaged ..	3,920	1,941	1,271	573	452	286	8,443
Value of land and buildings ..	£ 1,764,309	£ 789,822	£ 524,098	£ 355,592	£ 274,983	£ 40,216	£ 3,749,020
Value of plant and machinery ..	£ 1,603,036	£ 555,861	£ 358,794	£ 205,579	£ 106,716	£ 39,785	£ 2,869,771
Wages paid ..	£ 1,188,151	£ 559,891	£ 323,781	£ 159,895	£ 136,981	£ 54,790	£ 2,423,489
Value of fuel used ..	£ 52,869	£ 28,500	£ 19,397	£ 8,000	£ 7,920	£ 2,805	£ 119,491
Value of materials used ..	£ 1,310,137	£ 674,991	£ 265,844	£ 157,431	£ 111,336	£ 35,332	£ 2,555,071
Total value of output ..	£ 3,461,664	£ 1,590,387	£ 812,367	£ 499,135	£ 344,019	£ 219,305	£ 6,836,877
Value of production ..	£ 2,098,658	£ 886,896	£ 527,126	£ 243,704	£ 224,763	£ 181,168	£ 4,162,315

38. **Tyres, Motor and Cycle.**—(i) *Details for each State, 1941-42.* 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 1941-42 are shown hereunder :—

TYRES, MOTOR AND CYCLE, 1941-42.

Items.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas. (a)	Australia.
Number of factories ..	84	59	29	23	17	14	226
Number of persons engaged ..	3,333	3,086	138	104	71	61	6,793
Value of land and buildings ..	£ 679,397	£ 609,742	£ 68,443	£ 48,512	£ 37,699	£ 29,926	£ 1,473,719
Value of plant and machinery ..	£ 421,289	£ 766,575	£ 19,940	£ 13,117	£ 8,959	£ 7,044	£ 1,236,924
Wages paid ..	£ 926,288	£ 879,756	£ 20,320	£ 17,616	£ 10,689	£ 7,817	£ 1,862,486
Value of fuel used ..	£ 99,466	£ 154,545	£ 3,638	£ 2,595	£ 1,205	£ 1,146	£ 262,595
Value of materials used ..	£ 2,463,504	£ 3,258,291	£ 61,923	£ 39,415	£ 25,699	£ 16,337	£ 5,865,169
Total value of output ..	£ 3,820,290	£ 5,088,293	£ 122,673	£ 86,005	£ 58,689	£ 41,409	£ 9,217,359
Value of production ..	£ 1,257,320	£ 1,675,457	£ 57,112	£ 43,995	£ 31,785	£ 23,926	£ 3,089,595

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

(ii) *Total for Australia, 1937-38 to 1941-42.* 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 1941-42 :—

TYRES, MOTOR AND CYCLE(a) : AUSTRALIA.

Items.	1937-38.	1938-39.	1939-40.	1940-41.	1941-42.
Number of factories	267	262	259	242	226
Number of persons engaged	5,847	5,723	5,894	6,411	6,793
Value of land and buildings	£ 1,587,808	1,441,131	1,456,250	1,446,074	1,473,719
Value of plant and machinery	£ 1,296,315	1,174,012	1,186,291	1,261,985	1,236,924
Wages paid	£ 1,187,061	1,196,897	1,256,712	1,441,930	1,862,486
Value of fuel used	£ 212,533	210,920	218,236	223,498	262,595
Value of materials used	£ 4,533,656	3,645,799	4,484,377	4,894,576	5,865,160
Total value of output	£ 6,849,686	6,186,688	7,283,453	7,583,359	9,217,359
Value of production	£ 2,103,497	2,329,969	2,580,840	2,467,285	3,089,595

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

39. *Electric Light and Power Works.*—(i) *Details for each State, 1941-42.* 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 6,281 million British units, or by 151 per cent. Particulars for the year 1941-42 are as follows :—

ELECTRIC LIGHT AND POWER WORKS, 1941-42.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
Number of factories	96	71	48	44	109	4	372
Number of persons engaged	2,315	1,418	627	618	593	106	5,677
Value of land and buildings	£ 4,498,738	2,059,536	553,558	614,592	457,033	439,975	8,623,432
Value of plant and machinery	£ 12,246,865	8,119,400	1,776,611	2,090,377	2,225,250	3,058,582	29,517,085
Wages paid	£ 811,518	485,283	197,559	178,152	194,380	32,066	1,898,958
Value of fuel used	£ 2,027,890	852,843	539,318	522,096	758,483	..	4,700,630
Value of materials used	£ 309,834	76,636	56,446	56,776	39,671	10,250	549,613
Total value of output	£ 7,379,960	3,415,892	1,250,201	1,329,798	1,365,737	117,271	14,858,859
Value of production	£ 5,042,236	2,486,413	654,437	750,926	567,583	107,021	9,608,616

Particulars of the types of engines and generators installed in Electric Light and Power Works and their rated horse-power are given on p. 652.

(ii) *Production, 1937-38 to 1941-42.* 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.
1937-38	1,816,814	1,128,216	352,258	249,902	272,512	542,767	4,353,469
1938-39	1,948,490	1,222,505	387,368	256,283	307,002	566,691	4,688,339
1939-40	2,145,447	1,389,783	421,662	370,414	336,805	615,448	5,179,559
1940-41	2,405,118	1,550,169	456,715	304,372	353,369	669,970	5,739,713
1941-42	2,656,244	1,684,562	481,189	385,041	347,009	726,475	6,280,520

40. Gas-works.—(i) *Details for each State, 1941-42.* Gas-works are in operation in the majority of important towns in Australia. New South Wales returned eight ooke factories and Queensland two, working as separate industries, but under the present classification these are included in Class I.—Treatment of Non-metalliferous Mine and Quarry Products. The following table gives particulars of gas-works in each State for the year 1941-42 :—

GAS-WORKS, 1941-42.

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 ..	1,160	960	243	301	122	53	2,839
Value of land and buildings ..	£ 711,889	£ 431,306	£ 185,428	£ 25,009	(a)	(a)	£ 1,553,485
Value of plant and machinery ..	£ 2,965,682	£ 2,512,110	£ 554,022	£ 1,126,427	(a)	(a)	£ 7,533,499
Wages paid ..	£ 348,186	£ 290,597	£ 72,777	£ 89,300	(a)	(a)	£ 849,985
Value of fuel used ..	£ 240,343	£ 30,809	£ 5,495	£ 1,660	(a)	(a)	£ 302,025
Value of materials used ..	£ 1,101,326	£ 1,149,831	£ 191,883	£ 248,495	(a)	(a)	£ 2,859,389
Total value of output ..	£ 3,085,279	£ 1,872,474	£ 423,586	£ 396,846	(a)	(a)	£ 6,062,579
Value of production ..	£ 1,743,610	£ 691,834	£ 226,208	£ 146,691	(a)	(a)	£ 2,901,165

(a) Not available for publication.

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

(ii) *Coal Used and Production, 1941-42.* The following table gives details for 1941-42 :—

GAS-WORKS : COAL USED AND PRODUCTION, 1941-42.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
COAL USED.							
Coal tons	689,458	522,067	101,381	101,116	(a)	(a)	1,415,033
PRODUCTS.							
Gas produced ,000 cubic ft.	12,290,166	9,289,804	1,641,118	1,496,373	(a)	(a)	25,744,301
Gas sold ,000 cubic ft.	10,316,665	8,486,844	1,447,773	1,272,367	(a)	(a)	22,408,593
Coke produced .. tons	427,673	295,821	56,835	64,745	(a)	(a)	866,800
Coke for sale .. tons	279,550	183,997	29,354	43,141	(a)	(a)	543,654
VALUE.							
Gas sold £	2,434,612	2,392,273	583,536	565,005	(a)	(a)	£ 6,312,402
Coke for sale £	326,568	332,846	36,797	103,251	(a)	(a)	£ 818,398

(a) Not available for publication.

(b) Includes particulars for 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 1933-34, but has since risen each year to a new high level of 25,744,301 thousand cubic feet in 1941-42.