

MANUFACTURING INDUSTRIES.
1949-50.

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No. 7. INDUSTRIAL METALS—FERROUS—
PART II.—PLANT, EQUIPMENT AND MACHINERY
(INCLUDING FOUNDRIES).



PREPARED UNDER INSTRUCTIONS FROM
THE RIGHT HONORABLE THE TREASURER

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OFFICIAL STATISTICS, COMMONWEALTH OF AUSTRALIA.

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by

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PREFACE.

GENERAL: The industries included in the series for 1949-50 are listed on the back of the cover, and are the same as those cover 1 by the 1948-49 series. The 1949-50 summaries published to date are indicated at the top of page 2.

CLASSIFICATION OF FACTORIES: For purposes of industry classification, a factory in Australia is classified according to the nature of the product. Where two or more distinct types of industrial activity are carried on in one establishment, a separate return is obtained, wherever practicable, for each activity in order to allow classification on this basis. In cases where this is not practicable, there is no alternative but to classify the factory according to its predominant activity. This difficulty is most acute in the Metal Trades industries, (e.g. Engineering firms also producing Agricultural Implements, Stoves and Ovens, and/or Brass and Copper products), but it is also to be found in factories concerned with the treatment or manufacture of Skins, Leather, Clothing, Food products and some other articles.

Each of the summaries in the series "Manufacturing Industries", relates as far as possible to the operations of factories classified to the industry specified. Sometimes articles applicable to this industry are also produced, as subsidiary production, in other industries, and, wherever possible, quantity tables have been extended to show details of production separately for the industry under review and the total in all industries.

BASIS OF THE STATISTICS: The scope of the factory statistics is fully explained in Part I of the annual Production Bulletin.

Briefly, a "factory" is taken to be a manufacturing establishment in which four or more hands are employed or in which power other than hand is used.

All persons employed in the manufacturing activities of the factory are counted as factory employees. The figures relating to employment, therefore, exclude all those engaged in selling and distribution, such as salesmen, travellers, collectors, carters engaged solely on outward delivery of manufactured goods, and retailing storemen. The figures do include, however, proprietors who work in their own factories as well as "out-workers".

The value of output is the wholesale selling value at the factory of goods made or processed during the year, including by-products. In addition it includes the value of other work done, such as repair work, assembling and making-up for customers.

The value of production is the value of output minus the cost of raw materials, containers, power, fuel, light, lubricants, water, tools replaced, and repairs to plant, and represents the value added in the process of manufacture within the factories. As full details of the cost of production are not collected, the amount of profit resulting from operations cannot be ascertained. The value of production, therefore, is the source from which such items as wages, interest, depreciation, profits, taxation, insurance, advertising and other sundry charges are met.

MANUFACTURING INDUSTRIES : AUSTRALIA, 1949-50.

Note: Summaries already published in this Series are - Nos. 1. Cement and Cement Goods; 2. Bricks, Tiles, Pottery and Earthenware; 4. White Lead, Paints and Varnish; 5. Chemical Fertilizers; 7. Industrial Metals-Ferrous-Parts I, III and IV; 8. Industrial Metals - Non-ferrous - Parts I and II; 9. Electrical Machinery and Equipment; 10. Motor Vehicles and Cycles; 11. Agricultural Implements; 12. Wireless Apparatus; 13. Stoves, Ovens and Ranges; 16. Tanneries; 27. Tobacco, Cigars and Cigarettes; 28. Sawmilling; 30. Rubber Works; 35. Pulp and Paper Making; and 37. Aerated Waters and Cordials.

INDUSTRIAL METALS - FERROUS

PART II - PLANT, EQUIPMENT AND MACHINERY (INCLUDING FOUNDRIES)

1. GENERAL: In 1945-46 and 1946-47, Manufacturing Industry Summary No. 7 was issued under the general heading of "Engineering", and included details of four industries, viz., Smelting, Converting, Refining and Rolling of Iron and Steel; Foundries (Ferrous); Plant, Equipment and Machinery; and Other Engineering.

Since 1947-48, the Summary has been expanded to embrace details of three additional industries, viz., Iron and Steel Sheets; Sheet Metal Working, Pressing and Stamping; and Pipes, Tubes and Fittings. In addition the Summary has been retitled "Industrial Metals - Ferrous", and for clarity in presentation, has been issued in four separate parts as shown on the back of the cover. This Summary (No. 7 Part II) is entitled "Plant, Equipment and Machinery (including Foundries)", and embraces three separate industries, viz., Foundries (Ferrous); Plant, Equipment and Machinery (including Machine Tools); and Other Engineering. As a result of changes in classification, comparable details for these industries are not available prior to 1945-46.

2. SUMMARY OF STATISTICS: The following table gives a summary of the principal statistics for each industry separately and for the three combined for the years 1945-46 and 1947-48 to 1949-50. Details on a comparable basis are not available prior to 1945-46.

TABLE I : PLANT, EQUIPMENT AND MACHINERY (INCLUDING FOUNDRIES) : AUSTRALIA

Year	Number of Factories (1) No.	Persons Employed (2) No.	Salaries and Wages Paid (b) (3) £'000	Power Fuel and Light, etc. Used (4) £'000	Value of Materials etc. Used (5) (c) £'000	Value of Production (6) (d) £'000	Value of Output (7) £'000
FOUNDRIES (FERROUS)							
1945-46	312	5,344	1,612	161	1,210	2,341	3,712
1947-48	349	6,597	2,597	247	1,764	3,666	5,677
1948-49	374	6,910	2,986	295	2,142	4,041	6,476
1949-50	353	6,346	2,385	340	2,117	4,648	7,105
PLANT, EQUIPMENT AND MACHINERY, INCLUDING MACHINE TOOLS							
1945-46	1,038	46,123	14,259	605	16,454	21,044	38,103
1947-48	1,286	50,909	19,316	730	25,417	28,780	54,927
1948-49	1,423	54,268	23,096	906	30,109	34,624	65,639
1949-50	1,498	56,344	26,425	1,076	38,456	40,958	80,490
OTHER ENGINEERING							
1945-46	963	13,112	3,634	162	3,599	5,432	9,193
1947-48	1,267	14,232	4,803	171	4,567	7,425	12,163
1948-49	1,358	14,844	5,741	193	5,217	8,950	14,360
1949-50	1,495	16,798	6,977	241	6,637	11,086	17,964
TOTAL PLANT, EQUIPMENT AND MACHINERY (INCLUDING FOUNDRIES)							
1945-46	2,313	64,579	19,505	928	21,263	28,817	51,008
1947-48	2,902	71,738	26,716	1,148	31,748	39,871	72,767
1948-49	3,155	76,022	31,823	1,394	37,468	47,615	86,477
1949-50	3,346	79,488	36,457	1,657	47,210	56,692	105,579

(a) Includes Working Proprietors. (b) Excludes amounts drawn by Working Proprietors. (c) Includes also value of containers, packing, etc., replacements of tools and repairs to plant. (d) Value of Production equals column (7) less total of columns (4) and (5).

In the following table, particulars for each of the industries are given separately, by States, for the year 1949-50.

TABLE II : PLANT, EQUIPMENT AND MACHINERY (INCLUDING FOUNDRIES)

STATES, 1949-50.

Particulars	N.S.W.	VIC.	Q'LD.	S.A.	W.A.	TAS.	AUST.
FOUNDRIES (FERROUS)							
Factories employed (a)	93	201	23	19	17	-	353
Wages	2,515	2,148	134	418	418	-	6,063
Materials	135	100	16	17	15	-	283
Fuel, Light & used	2,650	2,248	550	435	463	-	6,346
Materials, etc.	£.	£.	£.	£.	£.	£.	£.
Wages & (b)	1,299,252	1,058,183	233,112	200,405	194,045	-	2,984,997
Fuel, Light & used	129,919	128,487	19,382	24,132	38,558	-	340,478
Materials, etc.	825,032	862,255	166,879	119,172	142,839	-	2,116,177
Construction (c)	2,105,550	1,634,828	353,757	275,713	278,059	-	4,647,907
Buildings	3,060,501	2,625,570	540,018	419,017	459,456	-	7,104,562
Machinery	490,446	521,987	77,698	37,311	79,655	-	1,207,097
Engines	424,828	423,710	82,145	59,223	72,758	-	1,062,664
Engines	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
Engines in use	7,333	6,634	1,754	1,490	2,095	-	19,306

PLANT, EQUIPMENT AND MACHINERY (INCLUDING MACHINE TOOLS)

Factories employed (a)	748	499	93	97	61	-	1,498
Wages	24,512	15,410	4,754	5,254	1,600	-	51,620
Materials	2,234	1,533	214	674	69	-	4,724
Fuel, Light & used	26,746	16,943	1,968	5,928	1,759	-	56,344
Materials, etc.	£.	£.	£.	£.	£.	£.	£.
Wages & (b)	12,655,899	8,213,668	2,036,878	2,863,590	724,740	-	26,494,775
Fuel, Light & used	475,770	331,576	81,622	145,143	41,394	-	1,075,505
Materials, etc.	18,353,274	12,490,654	2,260,988	4,498,247	844,490	-	38,456,653
Construction (c)	19,266,688	13,264,157	2,984,669	4,339,765	1,100,481	-	40,957,760
Buildings	38,095,732	26,086,387	5,338,279	8,983,155	1,986,365	-	80,489,918
Machinery	6,239,583	4,335,911	653,642	1,035,926	414,703	-	12,679,765
Engines	6,056,165	4,105,708	709,610	1,210,678	428,758	-	12,510,919
Engines	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
Engines in use	71,414	51,291	12,360	16,810	6,527	-	158,402

OTHER ENGINEERING

Factories employed (a)	566	530	98	125	100	76	1,495
Wages	4,077	6,494	1,381	2,319	516	1,007	15,794
Materials	322	419	40	122	18	83	1,004
Fuel, Light & used	4,399	6,913	1,421	2,441	534	1,090	16,798
Materials, etc.	£.	£.	£.	£.	£.	£.	£.
Wages & (b)	1,665,317	3,119,632	547,843	982,579	176,111	455,845	6,977,327
Fuel, Light & used	65,841	98,410	15,070	33,335	10,349	17,517	240,522
Materials, etc.	1,695,868	2,835,334	533,421	946,693	266,772	358,510	6,636,598
Construction (c)	2,998,081	4,835,148	781,733	1,480,160	317,038	674,320	11,086,480
Buildings	4,759,790	7,768,892	1,330,224	2,460,188	594,159	1,050,347	17,963,600
Machinery	2,092,757	1,843,029	272,927	380,639	144,520	267,095	5,100,967
Engines	935,881	1,561,140	225,428	429,296	94,065	269,541	3,515,351
Engines	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
Engines in use	9,916	18,333	2,954	6,235	1,258	2,972	41,668

Includes Working Proprietors. (b) Excludes amounts drawn by Working Proprietors.

3. **AVERAGE SALARIES, OUTPUT AND PRODUCTION:** Particulars of the average salary and wage paid, together with the average values of output and production per person engaged and the ratio of salaries and wages to the value of production, are shown in the following table for the three industries combined for the years 1945-46 and 1947-48 to 1949-50.

TABLE III : AVERAGE SALARIES AND WAGES PAID, OUTPUT, ETC.

PER EMPLOYEE : AUSTRALIA.

Year	Salaries and Wages per Employee (a)	Value of Output Per Person Engaged (b)	Value of Production per Person Engaged (b)	Ratio per cent. of Salaries and Wages to Value of Production
	£.	£.	£.	%
1945-46	311	700	446	67.69
1947-48	386	1,014	556	67.01
1948-49	434	1,138	626	66.83
1949-50	476	1,328	713	64.31

(a) Excludes Working Proprietors and amounts drawn by them. (b) Includes working Proprietors.

4. **ARTICLES PRODUCED:** Particulars of total Australian output of marine engines (petrol and light oils) and other internal combustion engines (excluding engines for motor-cars, motor cycles, tractors and aeroplanes) are shown in part (i) of the following table for the years 1938-39, 1945-46 and 1947-48 to 1949-50. Part (ii) of the table shows the output of refrigerators for the same years.

TABLE IV (i) : OUTPUT OF INTERNAL COMBUSTION ENGINES : AUSTRALIA. (a)

Year	Marine Engines (Petrol and Light Oils)		Other Internal Combustion Engines (b)			
			Crude Oil		Petrol	
	No.	Value (£)	No.	Value (£)	No.	Value (£)
1938-39	2,957	81,039	1,003	64,493	1,886	75,934
1945-46	1,054	47,357	4,216	119,933	11,372	456,527
1947-48	3,358	275,512	4,119	82,093	17,871	615,746
1948-49	3,014	266,375	4,425	551,385	21,666	1,475,612
1949-50	2,487	176,719	4,508	660,400	22,639	882,084

(a) Total production in all factories. (b) Excludes engines for motor cars, motor cycles, tractors and aeroplanes.

TABLE IV (ii) : OUTPUT OF REFRIGERATORS : AUSTRALIA. (a)

Year	Refrigerators							
	Household						Commercial - Electric	
	Electric		Gas		Kerosene		Quantity	Value (£)
	Quantity	Value (£)	Quantity	Value (£)	Quantity	Value (£)		
1938-39	(b) 29,499	(b) 1,055,633	(c)	(c)	(c)	(c)	(d)	(d)
1945-46	17,325	712,453	13,006	508,099	13,280	651,977	3,967	449,169
1947-48	53,332	3,564,172	30,322	1,288,289	28,482	1,389,589	5,223	623,295
1948-49	87,100	5,834,249	26,266	1,162,810	32,708	1,656,023	3,619	698,630
1949-50	94,058	6,951,175	12,427	541,172	41,126	2,313,864	5,153	1,179,446

(a) Total production in all factories. (b) Includes Gas and Kerosene. (c) Not available separately. Included under Electric. (d) Details not available.

In Table V following, full details of total Australian production are given for items produced principally in these three industries.

TABLE V : TOTAL AUSTRALIAN PRODUCTION OF ARTICLES PRINCIPALLY PRODUCED IN PLANT,
EQUIPMENT AND MACHINERY WORKS (INCL. FOUNDRIES) : 1949-50.

Particulars	All Australian Factories	
	Quantity No.	Value £.
Steam Engine Boilers - Water Tube	224	164,450
Other	244	211,027
<u>Engines</u> - Internal Combustion (excluding Motor Car, Motor Cycle and Tractor) -		
Diesel - Marine - 2 H.P. and under 6 H.P.	-	-
Other H.P.	(b)	(b)
Other - 2 H.P. and under 6 H.P.	2,979	237,119
Other H.P.	1,619	373,371
Petrol - Marine - 2 H.P. and under 6 H.P.	2,049	127,807
Other H.P.	438	48,912
Other - 2 H.P. and under 6 H.P.	16,830	656,424
Other H.P.	6,081	225,660
<u>Agricultural Implements and Machines (a) -</u>		
Tillage - Ploughs made (all types)	12,563	390,293
Windmills, complete (including heads)	14,711	601,779
Wool Presses	2,291	81,109
Saw Benches - Stationary	3,026	89,118
Portable	1,073	108,314
Parts - Tillage	(a)	499,754
Milking Machine	(a)	247,708
Windmills (Other than towers and Engines)	(a)	107,739
(a)	(a)	665,503
<u>Machinery - Harvesting</u>		
Household - Washing - Electric	31,638	1,338,519
Non-Electric	13,867	65,529
Refrigeration - Household - Electric - Absorption	13,179	635,915
Compression	80,879	6,315,260
Gas	12,427	541,472
Kerosene and Oil	41,126	2,313,864
Commercial - Electric - Absorption	692	80,531
Compression	4,461	1,098,215
Lawnmowers - With Electric Motor	23,461	345,254
With Engine - Petrol	1,186	51,436
Hand	88,425	344,728
<u>Construction and Earth Moving Equipment -</u>		
Power Shovels - under 2½ Cub. yds.	63	292,162
- 2½ Cub. yds. and over	(b)	(b)
Tractor Mounted Loaders	376	371,820
Dozers	731	537,734
Graders - Self Propelled	507	1,085,091
Tractor Drawn	557	58,485
Scrapers - Tractor Drawn	170	223,394
Scoops	869	52,438
Rippers and Rooters	507	133,010
Road Ploughs	(b)	(b)
Road Rollers	44	38,085
Sheeps Foot Rollers	8	4,688
Rock Buggies	(b)	(b)
Concrete Mixers - Hand Driven	194	2,600
Power Driven	7,529	346,408
Concrete Mixing Machinery	(a)	13,312

See footnotes on page 6.

Particulars	All Australian Factories	
	Quantity No.	Value £.
<u>Construction and Earth Moving Equipment - (Cont'd)</u>		
Bitumen Mixers, Sprayers and Heaters	(a)	(b)
Conveyors and Appliances	(a)	361,532
Holsts, Cranes, Lifting Machinery	(a)	1,110,201
Stone Crushing Machinery	(a)	165,703
Earthmoving and Roadmaking Equipment, n.e.i.	(a)	916,986
<u>Miscellaneous -</u>		
	ton	
Fabricated Structural Steel	74,889	5,020,888
Railway and Dock Spikes	1,233	48,131
	No.	
Clothes Wringers	46,833	178,934
<u>Machinery Industrial -</u>		
Air Conditioning	(a)	754,451
Bakery	(a)	419,386
Boot and Shoe	(a)	174,771
Brick and Pottery	(a)	188,021
Butchery	(a)	153,280
Confectionery	(a)	71,953
Dairy and Butter - making	(a)	711,606
Flour-Milling	(a)	130,865
Food Processing and Canning	(a)	1,027,328
Laundry (including Commercial Ironing and Washing)	(a)	521,816
Mechanical Stokers	(a)	61,698
Metal Working - Machine Tools - Lathes	(a)	659,452
Other	(a)	1,571,670
Other	(a)	1,292,429
Mining	(a)	1,407,730
Printing	(a)	319,806
Pumping (including Pumps)	(a)	2,170,717
Refrigerating (not household)	(a)	1,346,312
Sugar	(a)	447,244
Textile	(a)	775,429
Weighing Appliances	(a)	276,332
Woodworking and Sawmilling	(a)	893,018
<u>Miscellaneous -</u>		
Furniture of Iron and Steel	(a)	2,249,484
Metal Window Frames	(a)	1,391,733
Bolts and Nuts	(a)	1,418,273
Rivets	(a)	18,326
Washers	(a)	167,860
Screws	(a)	601,469
Steam, Gas, Water Fittings, Non-Ferrous (including valves and parts)	(a)	3,067,020
Window and Door Fittings, Non-Ferrous	(a)	214,347

(a) Value only collected

(b) Not available for publication

(c) See also Manufacturing Industries No. 11 - Agricultural Implements for more detailed statistics of the production of agricultural implements and machines.

EMPLOYMENT: The numbers of persons employed shown in Tables I, II, VII and VIII have been adjusted to represent the average employment over the whole year in those where short time was worked. In the following table, the factories in the industrial group - Plant, Equipment and Machinery (including Foundries) - have been classified according to the average number employed during the actual period worked during the years 1945-46, 1948-49 and 1949-50.

TABLE VI : FACTORIES CLASSIFIED ACCORDING TO PERSONS EMPLOYED : AUSTRALIA

Number of Persons Employed in each Factory	1945-46		1948-49		1949-50	
	No. of Factories	No. Employed	No. of Factories	No. Employed	No. of Factories	No. Employed
Under 4	600	1,237	947	1,959	1,003	2,103
4 to 10	161	644	241	964	247	988
11 to 20	572	4,081	343	5,890	892	6,260
21 to 30	360	5,180	441	6,489	494	7,263
31 to 50	331	10,676	375	11,681	401	12,876
51 to 100	146	10,569	158	11,034	157	11,343
101 to 200	80	11,321	83	11,527	84	11,634
201 to 300	30	7,335	29	6,970	29	6,957
301 to 400	11	3,677	12	4,096	13	4,425
401 to 500	9	3,990	9	3,908	7	2,997
501 and over	10	6,262	17	11,990	19	13,172
TOTAL	2,313	64,972	3,155	76,420	3,346	80,018
Average Number Employed per Factory	28		24		24	

Further details of employment in each of the Industries - Foundries (Ferrous), Plant, Equipment and Machinery and Other Engineering are furnished in the next three tables. In Table VII and VIII, the numbers of males employed are shown in accordance to the nature of their employment in the above mentioned industries for the years shown:-

TABLE VII : MALES EMPLOYED ACCORDING TO OCCUPATIONAL STATUS : AUSTRALIA, 1948-50.

Occupational Status	Foundries (Ferrous)	Plant, Equipment and Machinery.	Other Engineering	Total
Males				
Working Proprietors ..	322	993	1,497	2,812
Managerial and Clerical Staff, Incl. Salaried Managers and Working Directors ..	395	4,838	1,121	6,354
Painters, Draftsmen and Other Laboratory and Research Staff ..	69	1,431	223	1,723
Women and Overseers ..	242	2,529	689	3,460
Workers in Factory (Skilled and Unskilled) ..	5,014	41,675	12,188	58,877
Workers (exc. Delivery only), Messengers and Persons Working Regularly at Home ..	21	154	76	251
(Males)	6,063	51,620	15,794	73,477
TOTAL (Females (a))	283	4,724	1,004	6,011
Persons	6,346	56,344	16,798	79,488

(a) Mainly clerical staff.

TABLE VIII : MALES EMPLOYED CLASSIFIED ACCORDING TO OCCUPATIONAL STATUS,

AUSTRALIA

Occupational Status	1947-48	1948-49	1949-50
Males			
Working Proprietors	2,491	2,681	2,812
Managerial and Clerical Staff, incl. Salaried Managers and Working Directors ..	5,300	5,950	6,354
Chemists, Draftsmen and other Laboratory and Research Staff	1,547	1,612	1,723
Foremen and Overseers	2,967	3,146	3,460
Workers in Factory (Skilled or Unskilled)	54,172	56,915	58,877
Carters (excl. Delivery only), Messengers and Persons Working regularly at Home ..	187	207	251
TOTAL	Males	66,664	70,541
	Females	5,074	5,481
	Persons	71,738	76,022

The numbers of persons employed on or about 15th June for the years 1946 and 1948 to 1950 in the three industries combined are shown distributed according to age and sex in Table IX.

TABLE IX : DISTRIBUTION OF EMPLOYEES ACCORDING TO AGE AND SEX :

AUSTRALIA

(Excluding Working Proprietors)

June	Under 16 yrs.	16 yrs.	17 yrs.	18 yrs.	19 yrs.	20 yrs.	Total 16 to 20 years	21 yrs. and over	Total All ages
Males									
1946	892	1,514	1,884	2,187	2,095	1,972	9,652	48,267	58,811
1948	693	1,184	1,486	1,693	1,833	1,924	8,120	56,811	65,624
1949	663	1,082	1,348	1,549	1,691	1,831	7,501	59,860	68,024
1950	688	1,015	1,274	1,483	1,559	1,700	7,031	66,522	74,244
Females									
1946	97	181	285	337	295	271	1,369	3,183	4,649
1948	99	168	217	248	310	310	1,253	3,748	5,100
1949	103	160	200	251	227	324	1,162	4,217	5,482
1950	107	159	200	230	246	269	1,104	5,267	6,458

6. **POWER EQUIPMENT:** Statistics of the power equipment of the factories included in the individual industries - Foundries (Ferrous); Plant, Equipment and Machinery; and Other Engineering, - are given in the next table for the year 1949-50. The details include the rated horse-power of engines ordinarily in use together with those in reserve or idle.

TABLE X : TYPES AND RATED HORSE-POWER OF ENGINES

AUSTRALIA : 1949-50.

Type of Engine	Rated Horse-power of Engines							
	Ordinarily in Use				In Reserve or Idle			
	Foundries (Ferrous)	Plant Equipmt. & Machinery	Other Engineering	Total	Foundries (Ferrous)	Plant Equipmt. & Machinery	Other Engineering	Total
Reciprocating	30	2,013	290	2,333	25	280	46	351
Turbine	-	-	-	-	-	8	-	8
Internal Combustion	20	337	122	479	35	115	122	272
Steam or other	362	3,329	2,100	5,791	689	3,846	1,137	5,672
Light Oils	383	2,955	177	3,515	100	1,908	68	2,076
Heavy Oils	-	-	-	-	-	-	-	-
or	-	-	-	-	-	-	-	-
Prime Movers:	795	8,634	2,689	12,118	849	6,157	1,373	8,379
Electricity driven by	-	-	-	-	-	-	-	-
Electricity	18,511	149,768	38,979	207,258	1,329	6,522	1,051	8,902
Phased	(a) 15	(a) 4,258	(a) 409	(a) 4,682	-	341	248	589
Generation	18,526	154,026	39,388	211,940	1,329	6,863	1,299	9,491
Electricity:	-	-	-	-	-	-	-	-
Power Used:	19,306	158,402	41,668	219,376	2,178	13,020	2,672	17,870

These motors are driven by electricity generated by Prime Movers shown above, and are excluded from statistics of total power used to avoid duplication.

POWER, FUEL AND LIGHT, ETC., USED: Details of the quantities of the various items of power, fuel and light used in the industries, Foundries (Ferrous); Plant, Equipment and Machinery; and Other Engineering are shown in the following table for year 1949-50.

TABLE XI : POWER, FUEL, LIGHT, ETC., USED : AUSTRALIA, 1949-50.

Particulars	Quantity				Value (£)			
	Foundries (Ferrous)	Plant, Equipmt. & Machinery	Other Engineering	Total	Foundries (Ferrous)	Plant Equipmt. & Mach.inery	Other Engineering	Total
	ton	ton	ton	ton				
Power, Fuel								
Light -								
Black	2,918	11,788	1,576	16,282	2,665	32,233	4,050	44,948
Brown	5	126	282	413	8	284	435	727
Coal								
Quettes	831	32	-	863	1,692	97	-	1,789
	27,297	17,454	5,465	50,216	165,294	67,307	29,766	262,367
	5,870	19,690	6,996	32,556	14,170	20,657	6,045	40,872
	gals.	gals.	gals.	gals.				
Oil	846,967	3,226,779	286,112	4,359,858	47,927	187,282	22,930	258,139
(Fuel)	27,762	488,584	1,000	517,346	675	14,816	29	15,520
Electricity	(a)	(a)	(a)	(a)	32,248	527,164	130,533	739,945
	(a)	(a)	(a)	(a)	6,362	87,687	11,280	105,329
(Char-	(a)	(a)	(a)	(a)	1,977	5,128	4,668	11,773
etc.)	(a)	(a)	(a)	(a)				
Lub-	(a)	(a)	(a)	(a)	11,460	132,850	30,786	175,096
ing	(a)	(a)	(a)	(a)	340,478	1,075,505	240,522	1,656,505
ed	(a)	(a)	(a)	(a)				

(a) Value only available.

8. VALUE OF LAND AND BUILDINGS, PLANT AND MACHINERY: Particulars of the book value of premises occupied and plant used in factories in the industries, Foundries (Ferrous); Plant, Equipment and Machinery; and Other Engineering, at 30th June of the years 1945-46 and 1947-48 to 1949-50 are shown in the next table. Details of the values of additions and replacements made and depreciation allowed during the same period are also shown. It should be noted that the amounts shown are those recorded by factories which were operating during each year and that changes in their number, as well as other factors, affect comparison from year to year.

TABLE XII : VALUE OF LAND AND BUILDINGS, PLANT AND MACHINERY, ETC. : AUSTRALIA

Year	Book Values as at 30th June (a)		Additions & Replacements made during year		Depreciation allowed during year	
	Land and Buildings	Plant and Machinery	Land and Buildings	Plant and Machinery	Land and Buildings	Plant and Machinery
1946	10,584,258	9,755,254	504,767	1,854,778	157,990	960,863
1948	13,922,217	12,419,197	856,244	2,649,324	107,630	1,250,979
1949	16,793,073	14,728,258	1,073,732	2,953,263	205,416	1,802,718
1950	18,987,829	17,088,934	1,853,344	3,948,650	151,772	1,962,430

(a) Includes estimated value of rented premises and machinery

9. OVERSEA TRADE: The values of imports and exports of a number of miscellaneous items of Plant, Machinery and Equipment are given for the years 1938-39, 1945-46 and 1947-48 to 1949-50 in the following table:-

TABLE XIII : IMPORTS AND EXPORTS OF MISCELLANEOUS ITEMS OF PLANT, EQUIPMENT AND MACHINERY : AUSTRALIA
(£.s.f.o.b.)

Particulars	1938-39	1945-46	1947-48	1948-49	1949-50
IMPORTS					
Boilers, including Parts	138,916	132,037	380,705	270,013	476,942
Engines -					
Diesel	361,369	708,708	1,111,240	1,670,313	2,612,392
Steam, including Parts	280,862	506,149	316,481	1,151,723	932,238
Traction, including Road					
Rollers and Parts	232,430	3,652,880	4,231,781	8,708,471	18,331,365
All Other, except Motor	412,764	2,469,343	1,445,316	1,628,527	2,872,800
Machines -					
Adding and Computing	179,203	242,576	355,809	526,963	1,056,662
Lawn Mowers (Garden)	25,306	25,392	537,479	341,206	457,765
Machinery -					
Printing	361,804	112,347	795,644	1,627,050	2,072,196
Textile-working	451,259	613,336	1,769,166	5,120,101	5,459,883
Typewriters, including Parts	255,539	114,320	349,029	429,515	558,622
Weighing Machines, Weighbridges, Scales and Balances, etc.	83,517	67,703	125,680	142,883	172,340
Woodworking Machinery, n.e.c.	66,568	86,030	241,665	355,670	476,173
Metal-working	1,508,118	751,767	4,252,510	3,315,959	4,016,409
Mining	313,184	159,570	425,219	631,236	945,376
Refrigerators and Parts	326,294	88,908	192,923	788,601	1,750,772
Paper-working	23,909	64,123	418,253	794,183	908,156
EXPORTS					
Engines	45,725	91,241	965,249	1,071,177	998,163
Mining Machinery	57,696	61,827	278,929	213,899	236,614
Machine Tools	8,566	38,800	170,092	108,584	72,974
Sewing, Stitching, etc., Machines	22,830	37,878	108,238	125,775	106,413
Typewriters and Parts	6,197	7,257	9,973	9,150	22,205
Other Machinery	399,899	217,695	1,966,773	3,097,580	2,774,579

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