

COMMONWEALTH BUREAU OF CENSUS AND STATISTICS, CANBERRA,
AUSTRALIA.

MANUFACTURING INDUSTRIES. 1956-57.

No. 7. BASIC METAL INDUSTRIES.

PREPARED UNDER INSTRUCTIONS FROM
THE RIGHT HONORABLE THE TREASURER.

BY

S. R. CARVER,
COMMONWEALTH STATISTICIAN.

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P R E F A C E

1. GENERAL: The Bulletins in the series for 1956-57 are listed on the back of the cover of this Bulletin and include, for the first time, one - No. 34 - dealing with "Leather Goods (including Saddlery and Belting)".

Where a number of industries are combined in one Bulletin the introductory paragraph on Page 3 specifies the industries so included.

2. CLASSIFICATION OF FACTORIES: For purposes of industry classification, factories in Australia are classified according to the nature of their 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, factories are classified according to predominant activity and these cases are encountered most frequently in the Metal Trades, (e.g. General Engineering firms also producing Agricultural Implements or Stoves, etc.), and to a lesser degree in factories concerned with Skins, Leather, Clothing and Wood products.

Each of the summaries in the "Manufacturing Industries" series relates, generally, to the operations of factories classified to the industry specified. Figures shown in the quantity tables herein represent total recorded production of the articles listed and include quantities produced, as subsidiary production, in industries otherwise classified.

3. BASIS OF THE STATISTICS: The scope of the factory statistics is fully explained in the annual Secondary Industries Bulletin.

Briefly, a "factory" is defined as an establishment in which four or more persons are employed or where power (other than manual) is used in any manufacturing process. It should be noted that details relating to small establishments not classified for statistical purposes as factories are not included in the figures shown herein.

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, however, do include proprietors who work in their own businesses as well as "out-workers".

The value of materials used includes the value, in the usual sense, of the materials used, stores used, containers, tools replaced and materials used in repairs to plant. In general, it does not include the value of customers' articles or materials repaired, assembled or treated by the factory.

The value of output is the selling value, at the factory, (exclusive of all delivery costs and charges and excise duties, but inclusive of bounty and subsidy payments to the manufacturer of the finished article) of all goods made during the year. 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 added to raw materials by the process of manufacture. It is calculated by deducting from the value of factory output the value (at the factory) of the materials used, containers and packing, power, fuel and light used, tools replaced and materials used in repairs to plant (but not depreciation charges). The value of production is the source from which such items as wages, interest, depreciation, profits, taxation, advertising and other sundry charges are met. As full details of costs of production are not collected, the amount of profit resulting from factory operations cannot be ascertained from the figures contained herein.

S.R. CARVER
COMMONWEALTH STATISTICIAN

MANUFACTURING INDUSTRIES - AUSTRALIA, 1956-57BASIC METAL INDUSTRIES

This Bulletin relates to the operations of establishments classified to the following industries :-

- (a) Smelting, Converting, Refining, and Rolling of Iron and Steel (including Iron and Steel Sheets);
- (b) Non-ferrous Metals Extracting and Refining (see note (b) to Table No. 1 below); and
- (c) Non-ferrous Rolling and Extrusion only (excluding Fabricating, Founding, etc.).

A separate Bulletin - No. 8 - relates to the Metal Fabricating Industries.

1. Summary of Statistics. In the following table, details are given for each of the individual industries in the Basic Metals Group (as defined above), for Australia for the year 1956-57. These data are tabulated on a State basis, but because of the relatively few factories involved, it is not permissible to publish State details for each separate industry as this would contravene the confidential clause of the Census and Statistics Act under which the information is obtained.

TABLE 1 : BASIC METAL INDUSTRIES : AUSTRALIA, 1956-57

Particulars	Smelting, Converting, etc. of Iron and Steel (a)	Extracting and Refining of Other Metals; Alloys (b)	Rolling and Extrusion : Non-Ferrous Metals	Total (b)
	No.	No.	No.	No.
Factories	34	58	14	106
Persons Employed (c) -				
Males	25,360	6,896	4,303	36,559
Females	718	316	416	1,450
<u>TOTAL:</u>	26,078	7,212	4,719	38,009
	£'000	£'000	£'000	£'000
Salaries and Wages Paid (d)	28,636	8,720	5,219	42,575
Value of -				
Power, Fuel and Light etc. used (e)	20,538	4,282	998	25,818
Materials, etc. used (f)	136,483	68,426	27,900	232,809
Production (g)	66,385	19,773	9,346	95,504
Output (h)	223,406	92,481	38,244	354,131
Land and Buildings (i)	9,054	6,566	2,166	17,786
Plant and Machinery (i)	61,608	14,485	4,803	80,896
	H.P.	H.P.	H.P.	H.P.
H.P. of Engines ordinarily in use	45,541	76,212	43,650	577,403

(a) Includes production of Iron and Steel Sheets.

(b) Figures for "Extracting and Refining of Other Metals" are not comparable with those for 1951-52 and earlier years because "Ore Beneficiation and Concentration", formerly included as part of Manufacturing Industry, was transferred to Mining Industry in 1952-53.

(c) Average over whole year; includes Working Proprietors.

(d) Excludes amounts drawn by Working Proprietors.

(e) Includes Water and Lubricating Oil.

(f) Includes also value of containers, packing, etc., and replacement of tools and repairs to plant.

(g) Value added in process of manufacture.

(h) Value of goods produced.

(i) Depreciated or book values at end of year.

A summary of the principal statistics of factories in the combined group, "Basic Metal Products" is given in the following table for each of the years 1945-46 and 1954-55 to 1956-57.

TABLE 2 : BASIC METAL INDUSTRIES : AUSTRALIA

Year	Factories (1)	Persons Employed (a) (2)	Salaries and Wages Paid (b) (3)	Power, Fuel and Light etc. Used (c) (4)	Value of Materials, etc. Used (d) (5)	Value of Production (e) (6)	Value of Output (f) (7)
	Number	Number	£'000	£'000	£'000	£'000	£'000
1945-46	87	21,439	8,104	4,123	42,553	15,602	62,278
1954-55 (g)	109	32,209	32,513	20,481	200,350	60,732	281,563
1955-56 (g)	99	35,868	38,204	23,246	225,351	78,657	327,254
1956-57 (g)	106	38,009	42,575	25,818	232,809	95,504	354,131

(a) Average over whole year; includes Working Proprietors. (b) Excludes amounts drawn by Working Proprietors. (c) Includes Water and Lubricating Oil. (d) Includes also value of Containers, packing, etc., replacements of tools and repairs to plant. (e) Value of Production equals column (7) less total of columns (4) and (5). (f) Value of goods produced. (g) See note (b) to Table No. 1, page 3.

In the following table, particulars are given for each State for 1956-57.

TABLE 3 : BASIC METAL INDUSTRIES : STATES, 1956-57 (a)

Particulars	N.S.W.	VIC.	Q'LD.	S.A.	W.A.	TAS.	AUSTRALIA
	No.	No.	No.	No.	No.	No.	No.
Factories	50	38	5	6	3	4	106
Persons Employed -							
Males	28,251	2,159	645	2,192	123	3,189	36,559
Females	1,145	103	1	63	3	135	1,450
TOTAL:	29,396	2,262	646	2,255	126	3,324	38,009
	£'000	£'000	£'000	£'000	£'000	£'000	£'000
Salaries and Wages Paid	32,587	2,393	863	2,840	107	3,785	42,575
Value of -							
Power, Fuel and Light etc. used	19,311	500	799	3,509	200	1,499	25,816
Materials, etc. used	168,851	9,143	16,041	25,290	584	12,900	232,809
Production	73,490	4,528	2,303	6,534	512	8,137	95,504
Output	261,652	14,171	19,143	35,333	1,296	22,536	354,131
Land and Buildings (b)	11,057	999	992	677	87	4,019	17,786
Plant and Machinery (b)	63,952	835	1,356	3,676	2,843	8,234	80,896
	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
H.P. of Engines ordinarily in use	480,929	13,692	10,473	16,689	11,515	44,105	577,403

(a) See note (b) to Table No. 1, page 3. (b) Depreciated or book values at end of year. See also notes to Table 2 above.

2. AVERAGE SALARIES, OUTPUT AND PRODUCTION. In the next table, particulars of the average salary and wage paid, together with the average value of output and production per person engaged and the ratio of salaries and wages to the value of production, are shown for each of the years 1945-46, and 1954-55 to 1956-57.

TABLE 4 : BASIC METAL INDUSTRIES : 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 of Salaries and Wages to Value of Production
	£.	£.	£.	%
1945-46	378	2,905	728	51.94
1954-55	1,010	8,742	1,886	53.54
1955-56	1,066	9,124	2,193	48.57
1956-57	1,121	9,317	2,513	44.58

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

(b) Includes Working Proprietors.

3. MATERIALS USED AND ARTICLES PRODUCED. In the next four tables details of materials used and articles produced are shown separately in their respective industry groupings. As there are few establishments engaged in the Rolling and Extrusion of Non-Ferrous Metals and the production of Iron and Steel Sheets, details of the output of individual products are not available for publication and are omitted from this group of tables.

The following table shows the quantities of the principal materials used and articles produced in Australia during 1956-57. Part (i) refers to the operations of Blast Furnaces, Part (ii) to Steel Furnaces and Part (iii) to Rolling Mills.

TABLE 5 : MATERIALS USED AND ARTICLES PRODUCED IN SMELTING, CONVERTING, REFINING AND ROLLING OF IRON AND STEEL : AUSTRALIA, 1956-57

Particulars		Unit of Quantity	Quantity
<u>PART (i) : BLAST FURNACE OPERATIONS</u>			
<u>Materials Used -</u>			
Ores-Iron	..	Ton	3,289,655
Scrap Iron	..	"	35,982
Coke used in Blast Furnaces (a)	..	"	1,900,810
Limestone	..	"	581,251
<u>Articles Produced -</u>			
Pig-Iron - Basic	..	Ton	1,924,745
Foundry	..	"	173,607
Blast Furnace Gas Produced	..	mill. cub. ft.	288,705
Slag	..	Ton	484,040
<u>PART (ii) : STEEL FURNACE OPERATIONS</u>			
<u>Materials Used -</u>			
Pig Iron	..	Ton	1,894,929
Ferro-alloys	..	"	33,275
Metals (other than Ferro-alloys) for making alloy steels, etc.	..	"	1,328
Scrap Iron or Steel	..	"	1,002,147
Ores-Iron	..	"	327,906
Limestone	..	"	144,688
Dolomite	..	"	102,191
Magnesite	..	"	6,532
Coke (used in Steel Furnaces) (b)	..	"	3,301
<u>Articles Produced -</u>			
Steel Ingots - Open Hearth..	..	Ton	2,696,264
Electric	..	"	77,731
Direct Steel Castings	..	"	29,800
<u>PART (iii) : STEEL ROLLING MILL PRODUCTS</u>			
<u>Articles Produced -</u>			
Blooms and Slabs for re-rolling	..	Ton	2,287,970
Sheet Bar	..	"	200,464
Steel Plates and Sheets - $\frac{3}{8}$ " thick and over	..	"	351,499
Structural Sections (Rolled or Forged)	..	"	249,661
Rails, Sleepers and Fastenings	..	"	94,109
Bars and Rods (Wire Rods and Merchant Shafting)	..	"	548,986
Bright Steel Bars and Rods drawn from Black Steel	..	"	34,308
Hoop, Band and Strip Steel (Hot Rolled and Other) (c)	..	"	554,045
Finished Axles (Rolled or Forged) - Other than Automobile	..	"	2,888
Tyres and Wheels	..	"	10,440
Rolled Products, n.e.i.(d) ..	..	"	157,321
Forgings of Iron and Steel n.e.i.	..	"	10,670

(a) Included as Fuel in Table 14.

(b) Not included as Fuel in Table 14.

(c) Including Strip for Tubes.

(d) Not comparable with 1955-56 and earlier years.

In the next table, details of the output of Pig-Iron, Steel Ingots, Direct Steel Castings and Blooms and Billets in Iron and Steel Works are shown for each of the years 1938-39, 1945-46 and 1954-55 to 1957-58.

TABLE 6 : IRON AND STEEL WORKS : OUTPUT OF PIG IRON, STEEL INGOTS AND CASTINGS AND BLOOMS AND BILLETS : AUSTRALIA
(Tons)

Year	Pig-Iron	Steel Ingots	Direct Steel Castings (a)	Blooms and Slabs
1938-39	1,104,605	1,169,989	13,210	1,120,142
1945-46	906,283	1,061,918	24,616	1,036,501
1954-55	1,868,841	2,208,708	31,147	1,952,730
1955-56	1,910,521	2,320,289	31,800	2,110,639
1956-57	2,098,352	2,773,995	29,800	2,287,970
1957-58 (b)	2,283,817	3,105,586	(c)	2,632,071

(a) Made in establishments classified as Iron and Steel Works. (b) Subject to revision. (c) Not yet available.

Details of the output of Pig-Iron, Steel Ingots, Blooms and Billets and Tinplate during each month of the year ended May, 1958, are shown in the following table :-

TABLE 7 : MONTHLY OUTPUT OF PIG IRON, STEEL INGOTS, BLOOMS AND SLABS AND TINPLATE : AUSTRALIA, 1957-58
(Tons)
(Subject to revision)

Month	Pig-Iron	Steel Ingots	Blooms and Slabs	Tinplate
1957 - June	161,745	246,763	206,338	-
July	198,804	264,162	238,535	-
August	196,290	271,678	233,504	(a) 1,466
September	182,151	261,501	222,471	2,615
October	188,005	263,878	220,406	3,391
November	182,009	246,411	222,357	3,041
December	202,129	250,693	212,473	4,306
1958 - January	197,544	269,940	203,334	4,565
February	172,584	232,635	197,237	2,701
March	196,561	265,913	223,606	5,448
April	186,535	254,245	210,970	5,833
May	199,460	277,567	240,840	5,745
Total, 12 Months Ended May, 1958	2,283,817	3,105,586	2,632,071	39,111

(a) Production commenced in August, 1957.

Particulars of the primary extraction of the principal non-ferrous metals in Australia are shown in the following table for the years 1938-39, 1945-46 and 1954-55 to 1957-58. Monthly details of production during 1957-58 are also shown.

TABLE 8 : PRIMARY EXTRACTION OF PRINCIPAL NON-FERROUS METALS : AUSTRALIA

Period	Gold (a)	Lead (Incl. Bullion) (b)	Zinc (b)	Silver (b)	Copper (b)	Tin (b)	Aluminum (b)
	'000 Fine oz.	Tons	Tons	'000 Fine oz.	Tons	Tons	Tons
1938-39	(c) 1,637	232,988	69,825	9,455	17,483	3,262	-
1945-46	717	151,081	80,458	6,824	21,283	2,292	-
1954-55	1,082	235,353	100,459	7,627	30,400	2,032	-
1955-56	1,036	220,790	103,904	8,136	24,472	1,908	(d) 5,519
1956-57	1,060	239,788	106,544	8,725	32,534	1,776	9,999
1957-58 (e)	1,106	257,243	115,107	8,422	(f)	2,067	10,712
1957 - July	128	19,988	10,919	522	2,666	124	989
August	88	21,839	9,532	494	1,864	204	915
September	84	20,313	9,196	456	2,521	181	940
October	82	21,732	9,669	559	2,774	95	950
November	89	21,926	9,394	751	3,105	187	853
December	97	20,895	9,706	732	2,820	226	850
1958 - January	83	21,050	9,657	828	1,340	138	885
February	88	18,865	8,609	776	2,694	191	840
March	76	22,901	9,560	798	3,134	207	848
April	81	22,985	9,306	711	3,430	149	837
May	87	22,598	9,748	915	3,188	186	935
June	123	22,151	9,811	878	(f)	179	870

(a) Newly-won gold of Australian origin. (b) Source : Bureau of Mineral Resources.
(c) Year 1940; earlier periods not available. (d) Production commenced in September.

4. **EMPLOYMENT.** The numbers of persons employed as shown in Tables 1, 2, 3, 10 and 11 have been adjusted to represent the average employment over the whole year in those cases where short time was worked. In the following table, the factories have been classified according to the average number employed during the actual period worked.

TABLE 9 : BASIC METAL INDUSTRIES : FACTORIES CLASSIFIED ACCORDING TO PERSONS EMPLOYED : AUSTRALIA

Number of Persons Employed in each Factory	1945-46		1954-55 (a)		1955-56 (a)		1956-57(a)	
	No. of Factories	Number Employed	No. of Factories	Number Employed	No. of Factories	Number Employed	No. of Factories	Number Employed
Under 4	11	25	8	17	4	10	10	24
4	3	12	7	28	3	12	1	4
5 to 10	12	97	14	100	17	117	17	119
11 to 20	7	111	9	150	10	165	11	166
21 to 50	11	353	24	703	21	659	21	684
51 to 100	11	907	9	692	10	782	9	714
101 to 200	8	1,192	8	1,131	6	912	8	1,016
201 to 300	4	1,061	7	1,667	10	2,651	10	2,505
301 to 500	4	1,644	6	2,005	5	1,781	6	2,335
501 to 750	8	4,911	3	1,829	4	2,657	3	2,127
751 and over	8	11,687	14	23,907	9	26,265	10	28,404
TOTAL:	87	22,000	109	32,229	99	36,011	106	38,098
Average Number Employed per Factory	253		296		364		359	

(a) See note (b) to Table No. 1, Page 3.

Further details of employment are furnished in the following three tables. In table 10 the numbers of males employed are shown according to the nature of their employment in each of the individual industries for the year 1956-57.

TABLE 10 : BASIC METAL INDUSTRIES : PERSONS EMPLOYED - MALES CLASSIFIED ACCORDING TO OCCUPATIONAL STATUS : AUSTRALIA, 1956-57

Occupational Status	Smelting, Converting etc. of Iron and Steel (a)	Extracting and Refining of Other Metals; Alloys (b)	Rolling and Extrusion; Non-Ferrous Metals	Total (b)
Males				
Working Proprietors	4	18	-	22
Managerial and Clerical Staff, incl. Salaried Managers and Working Directors	1,676	563	413	2,652
Chemists, Draftsmen and Other Laboratory and Research Staff	675	304	164	1,143
Foremen and Overseers	961	493	172	1,626
Workers in Factory (Skilled and Unskilled)	22,034	5,486	3,551	31,071
Carters (excluding delivery only), Messengers, etc.	10	32	3	45
Total (Males :	25,360	6,896	4,203	36,599
Females : (c)	718	316	416	1,450
Persons :	26,078	7,212	4,719	38,009

(a) Includes figures for Iron and Steel Sheets.

(b) See note (b) to Table No. 1 Page 3.

(c) Mainly Clerical Staff.

In Table 11 the numbers of males employed are shown for the years 1945-46 and 1954-55 to 1956-57 according to the nature of their employment.

**TABLE 11 : BASIC METAL INDUSTRIES : PERSONS EMPLOYED - MALES CLASSIFIED
ACCORDING TO OCCUPATIONAL STATUS : AUSTRALIA**

Occupational Status	1945-46	1954-55(a)	1955-56(a)	1956-57(a)
Males				
Working Proprietors	22	27	21	22
Managerial and Clerical Staff, including Salaried Managers and Working Directors	1,900	2,407	2,420	2,652
Chemists, Draftsmen and Other Laboratory and Research Staff	673	948	1,047	1,143
Foremen and Overseers	793	1,100	1,502	1,626
Workers in Factory (Skilled & Unskilled)	16,942	26,372	29,455	31,071
Other (Carters, Messengers, etc.)	94	49	59	45
(Males :	20,424	30,903	34,504	36,559
Total (Females : (b)	1,015	1,306	1,364	1,450
(Persons :	21,439	32,209	35,868	38,009

(a) See note (b) to Table No. 1, Page 3. (b) Mainly clerical staff.

In the following table the number of persons employed in June in each of the years 1946 and 1955 to 1957 are shown according to age and sex distribution.

**TABLE 12 : BASIC METAL INDUSTRIES : DISTRIBUTION OF EMPLOYEES ACCORDING
TO AGE AND SEX : AUSTRALIA
(Excluding Working Proprietors)**

June	Under 16 Years	16 Years	17 Years	18 Years	19 Years	20 Years	Total 16 to 20 Years	21 Years and Over	Total all Ages
MALES									
1946 (a)	93	221	275	624	365	393	1,878	21,412	23,383
1955 (b) (c)	123	327	403	443	444	389	2,006	29,310	31,439
1956 (b) (c)	156	510	555	606	652	511	2,834	32,660	35,650
1957 (b) (c)	131	578	585	614	679	581	3,037	34,728	37,896
FEMALES									
1946 (a)	9	40	70	128	88	93	419	557	985
1955 (b) (c)	32	50	88	95	90	74	397	864	1,293
1956 (b) (c)	28	78	89	101	93	75	436	935	1,399
1957 (b) (c)	25	66	112	91	112	90	471	994	1,490

(a) Pay-day nearest 15th June. (b) Last pay-day in June. (c) See note (b) to Table No. 1, Page 3.

5. **POWER EQUIPMENT.** Statistics of the power equipment installed are shown in the next table. The details given include the rated horsepower of engines ordinarily in use, together with those in reserve or idle.

TABLE 13 : BASIC METAL INDUSTRIES : TYPES AND RATED HORSEPOWER OF ENGINES : AUSTRALIA

Class of Engine	Rated Horsepower of Engines					
	Ordinarily in Use			In Reserve or Idle		
	1954-55(a)	1955-56(a)	1956-57(a)	1954-55(a)	1955-56(a)	1956-57(a)
Steam - Reciprocating	35,427	35,427	33,529	12,478	11,878	14,069
Turbine	45,741	45,223	50,281	4,660	9,685	2,000
Internal Combustion - Gas	-	-	-	-	-	-
Petrol or Other	-	-	-	-	-	-
Light Oils	974	13	864	542	515	3,379
Heavy Oils	245	1,065	245	289	365	-
Water	-	-	-	-	-	-
Total, Prime Movers:	82,387	81,728	84,919	17,969	22,443	19,448
Motors driven by Electricity - Purchased	380,346	453,285	492,484	46,659	48,974	54,245
Own Generation	(b) 2,000	(b) 1,200	(b) 400	107	275	117
Total, Electricity:	382,346	454,485	492,884	46,766	49,249	54,362
TOTAL POWER EMPLOYED:	462,733	535,013	577,403	64,735	71,692	73,810

(a) See note (b) to Table No. 1, Page 3. (b) These motors are driven by electricity generated by Prime Movers and, to avoid duplication, are excluded from statistics of

6. POWER, FUEL AND LIGHT, ETC. USED: Details of the quantities and values of the various items of power, fuel and light used are shown in the following table for the years 1954-55 to 1956-57.

TABLE 14 : BASIC METAL INDUSTRIES
POWER, FUEL AND LIGHT, ETC., USED
AUSTRALIA

Particulars	Unit of Qty.	Quantity			Value (£)		
		1954-55(a)	1955-56(a)	1956-57(a)	1954-55(a)	1955-56(a)	1956-57(a)
Power, Fuel and Light -							
Coal -							
Black	Ton	402,053	239,032	197,744	1,683,862	1,106,543	922,000
Brown	"	1,225	1,296	653	3,684	3,307	1,414
Coke (b)	"	1,929,475	1,954,340	2,037,606	11,898,047	12,915,707	13,335,857
Wood	"	3,606	4,520	5,395	14,404	18,270	22,106
Fuel Oil	Gal.	15,616,213	26,854,216	39,916,409	935,806	1,572,968	2,598,741
Tar (Fuel)	"	21,624,127	19,381,291	21,085,463	433,338	367,337	430,930
Electricity	-	(c)	(c)	(c)	3,868,552	4,711,454	5,672,388
Gas	-	(c)	(c)	(c)	863,274	818,177	924,814
Other (Charcoal, etc.)	-	(c)	(c)	(c)	236,603	1,093,758	1,174,816
Water and Lubricating Oil used	-	(c)	(c)	(c)	543,305	638,808	734,488
TOTAL:		(c)	(c)	(c)	20,480,875	23,246,329	25,817,554

(a) See note (b) to Table No. 1, Page 3.

(b) Includes Coke used as feed in blast furnaces as shown in Table 5.

(c) Value only available.

7. VALUE OF LAND AND BUILDINGS, PLANT AND MACHINERY: Particulars of the book values of premises occupied and plant installed for factory purposes as at 30th June for each of the years 1945-46, and 1954-55 to 1956-57 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 15 : BASIC METAL INDUSTRIES : VALUE OF LAND AND BUILDINGS,
PLANT AND MACHINERY, ETC. : AUSTRALIA
(£)

Year	Book Value as at 30th June (a)		Additions and 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
1945-46	4,641,459	11,288,723	190,374	702,792	256,489	1,288,678
1954-55 (b)	12,276,905	40,206,579	1,442,056	10,016,418	560,928	3,098,246
1955-56 (b)	16,006,546	52,365,861	2,517,267	10,661,654	727,908	4,669,624
1956-57 (b)	17,786,155	80,896,273	2,242,937	35,037,359	679,330	5,966,482

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

(b) See note (b) to Table No. 1, Page 3.

8. **EXTERNAL TRADE:** The quantities of basic metal products imported and exported during the years 1938-39, 1945-46 and 1954-55 to 1956-57 are given in the following tables. Imports and exports of items for which no unit of quantity is recorded are excluded from these tables.

TABLE 16 : IMPORTS OF BASIC METAL PRODUCTS : AUSTRALIA

Particulars	Unit	1938-39	1945-46	1954-55	1955-56	1956-57
Iron and Steel -						
Pig iron	Ton	51	-	-	-	-
Ingots, blooms, slabs, etc.	"	186	29	516	738	418
Angles, tees, bars, rods	"	6,983	1,458	119,822	151,685	44,450
Hoop	"	9,674	1,383	44,340	48,723	14,015
Strip	"	(a)	364	2,197	5,110	3,279
Plate and sheet -						
Plain	"	28,542	3,751	116,444	72,314	19,256
Galvanised	"	8,703	(a)	60,227	25,134	968
Tinned	"	69,982	72,620	155,410	123,949	140,225
Other	"	-	105	1,459	2,130	1,127
Pipes and tubes	"	6,836	1,052	33,233	13,268	12,926
Structural	"	258	164	65,278	72,466	26,714
Railway and tramway materials	"	877	172	14,055	26,310	1,091
Ferro alloys	"	6,335	697	10,778	16,551	12,474
Other	"	730	209	1,402	1,596	1,987
Non Ferrous Metals -						
Aluminium -						
Pigs, ingots, blocks, etc.	Ton	568	593	12,763	12,033	10,396
Bars, rods, angles, pipes, tubes, etc.	"	6	148	497	528	803
Plates and sheets	"	714	147	2,651	2,511	2,021
Other	"	-	-	418	492	460
Antimony and compounds (b)	"	178	6	290	189	126
Bismuth	"	(c)	1	16	16	19
Brazing and soldering alloys	"	28	8	43	73	19
Cobalt	"	(c)	(c)	21	34	43
Copper -						
Pigs, ingots, blocks, etc.	"					
- Refined	"	}(d)300	150	(28,069	4,691	3,251
- Blister	"			500	-	-
Bars, rods, angles, pipes, tubes, etc.	"	250	132	3,606	1,485	699
Plates, sheets and strips	"	555	631	1,298	990	773
Other (including scrap)	"	(e)	5	71	63	60
Copper-base alloys	"	373	172	553	556	407
Gold - Bar, ingot, sheet, etc.	f.oz.	376,417	109,287	175,166	175,649	143,852
Lead	Ton	110	-	6	8	11
Magnesium	"	(c)	2	53	20	25
Manganese	"	(c)	(c)	72	37	82
Mercury	"	(c)	6	31	29	28
Nickel	"	228	57	530	760	958
Nickel-base alloys	"	(c)	150	228	458	222
Platinum group metals	oz.	1,358	27,743	4,446	3,400	2,558
Silver - Bar, ingot, sheet, etc.	f.oz.	200,568	9,119	93,472	86,304	73,190
Tin	Ton	39	2,103	579	518	830
Tin - base alloys	"	(c)	-	112	125	135
Tungsten	"	(c)	(c)	2	6	7
Zinc	"	1,426	48	131	154	132
Non Ferrous alloys, n.e.i.	"	587	11	247	127	155
Non Ferrous metals, n.e.i.	"	592	6	74	241	199

(a) Included with "Plate and sheet - Plain".

(b) Excludes antimonial lead.

(c) Not recorded separately.

(d) Includes scrap.

(e) Included with "Pigs, ingots, blocks, etc.".

TABLE 17: EXPORTS OF BASIC METAL PRODUCTS: AUSTRALIA

Particulars	Unit	1938-39	1945-46	1954-55	1955-56	1956-57
Iron and Steel -						
Pig iron	Ton	52,321	5,850	60,278	14,583	17,486
Ingots, blooms, slabs, etc.	"	17,655	106,104	7,807	41	1,737
Scrap - Tinplate	"	"	"	11,642	9,709	10,104
Other	"	72,923	588	49,862	60,048	170,673
Bar and rod	"	"	(9,141	13,446	7,174	27,552
Angles and tees	"	104,714	(1,094	2,587	2,297	4,899
Hoop, strip, etc.	"	20	43	77	272	549
Plate and sheet - Plain	"	11,310	15,241	13,266	12,216	157,583
- Galvanised	"	1,605	2,132	9,690	12,839	65,912
- Tinned, plated, etc.	"	166	41	31	28	44
Pipes and tubes	"	(a)	7,259	11,351	24,035	46,748
Structural	"	9,653	11,571	23,270	3,718	7,205
Railway and tramway materials	"	(a)	12,167	2,746	1,417	2,761
Ferro Alloys	"	(a)	56	18	1	23
Other	"	(a)	756	523	344	691
Non Ferrous Metals -						
Aluminium -						
Pigs, ingots, blocks, etc.	Ton	(a)	15	-	1	764
Other	"	(a)	-	194	100	143
Antimony and compounds (b)	"	(a)	973	334	436	359
Brazing and soldering alloys	"	(a)	109	46	25	54
Cadmium	"	152	206	162	161	182
Copper -						
Pigs, ingots, blocks, etc.	"	"	"	"	"	"
- Blister	"	1,078	6,839	5,123	14,559	15,596
- Other	"	"	"	"	553	2
Rolled, drawn and extruded shapes	"	142	92	550	1,465	1,440
Other (including scrap)	"	8	219	60	15	3
Copper-base alloys -						
Rolled, drawn and extruded shapes	"	46	864	707	1,448	2,499
Other	"	174	3,366	1,503	133	298
Gold - Bar, dust, ingot and sheet	f.oz.	1,970,240	2,515,354	864,391	531,664	903,266
Lead -						
Pig	Ton	204,996	104,515	140,256	146,144	167,390
Bullion	"	-	-	40,818	29,812	53,531
Scrap	"	(a)	4,813	13,551	10,975	9,758
Rolled and extruded shapes	"	620	897	2,802	65	205
Antimonial	"	(a)	(a)	128	180	378
Nickel and nickel-base alloys	"	-	17	38	66	45
Platinum Group metals	oz.	229	-	478	770	701
Silver - Bar, ingot and sheet	f.oz.	9,46,099	109,909	6,14,155	6,48,336	16,57,049
Tin	Ton	1,472	251	295	51	50
Tin-base alloys	"	(a)	99	1	1	14
Zinc -						
Pigs, ingots, blocks, etc.	"	44,617	48,190	32,709	33,715	39,676
Plate, sheet, circles, segments, etc.	"	20	667	3,117	2,570	1,941
Other	"	22	296	1,195	1,029	309
Non-ferrous alloys, n.e.i.	"	(a)	55	36	77	120

(a) Not recorded separately.

(b) Excludes antimonial lead.

S. R. CARVER
COMMONWEALTH STATISTICIAN

COMMONWEALTH BUREAU OF CENSUS AND STATISTICS

CANBERRA. A.C.T. 14TH OCTOBER, 1958

LIST OF INDUSTRIES INCLUDED IN THE SERIES.

- No. 1. CEMENT AND CEMENT GOODS.
" 2. BRICKS, TILES, POTTERY AND EARTHENWARE.
" 3. CHEMICALS, DRUGS AND MEDICINES.
" 4. WHITE LEAD, PAINTS AND VARNISH.
" 5. CHEMICAL FERTILIZERS.
" 6. SOAP AND CANDLES.
" 7. BASIC METAL INDUSTRIES.
" 8. METAL FABRICATING INDUSTRIES.
" 9. MOTOR VEHICLES AND CYCLES.
" 10. COTTON MILLS.
" 11. WOOLLEN MILLS.
" 12. ROPE AND CORDAGE.
" 13. TANNERIES.
" 14. BOOTS AND SHOES.
" 15. CLOTHING (INCLUDING HOSIERY AND KNITTED GOODS).
" 16. FLOUR AND OTHER GRAIN MILLS.
" 17. BISCUITS.
" 18. CONFECTIONERY.
" 19. JAM, FRUIT, VEGETABLES, PICKLES, SAUCES, CONDIMENTS, ETC.
" 20. BACON CURING.
" 21. BUTTER, CHEESE AND CONDENSED, CONCENTRATED, ETC., MILK.
" 22. AERATED WATERS AND CORDIALS.
" 23. MEAT AND FISH PRESERVING.
" 24. BREWERIES.
" 25. WINERIES AND DISTILLERIES.
" 26. TOBACCO, CIGARS AND CIGARETTES.
" 27. SAWMILLING.
" 28. PULP AND PAPER MAKING.
" 29. RUBBER WORKS.
" 30. BROOMS AND BRUSHES.
" 31. ELECTRIC LIGHT AND POWER WORKS.
" 32. GAS WORKS.
" 33. PLASTIC MOULDING AND PRODUCTS.
" 34. LEATHER GOODS (INCLUDING SADDLERY AND BELTING).