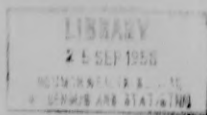


COMMONWEALTH BUREAU OF CENSUS AND STATISTICS, CANBERRA,
AUSTRALIA.

MANUFACTURING INDUSTRIES. 1955-56.



No. 30. BROOMS AND BRUSHES.



PREPARED UNDER INSTRUCTIONS FROM
THE RIGHT HONORABLE THE TREASURER.

BY

S. R. CARVER,
ACTING COMMONWEALTH STATISTICIAN.

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P R E F A C E

1. GENERAL: The Bulletins in the series for 1955-56 are listed on the back of the cover of this Bulletin and incorporate the same range of industries as the 1954-55 series.

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.

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ACTING COMMONWEALTH STATISTICIAN

CANBERRA, A.C.T.

MANUFACTURING INDUSTRIES, AUSTRALIA : 1955-56BROOMS AND BRUSHES

1. SUMMARY OF STATISTICS: The following table furnishes a summary of the principal statistics of the factories engaged in the manufacture of Brooms and Brushes in Australia for the years 1938-39, 1945-46 and 1953-54 to 1955-56.

TABLE 1 : BROOM AND BRUSH FACTORIES, 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
1938-39	70	1,587	221	6	440	354	800
1945-46	94	1,761	413	9	801	789	1,599
1953-54	106	1,881	1,169	27	2,262	2,004	4,293
1954-55	106	1,970	1,306	30	2,471	2,173	4,674
1955-56	103	1,943	1,362	30	2,538	2,269	4,837

(a) Average over whole year; includes Working Proprietors. (b) Excludes amounts drawn by Working Proprietors. (c) Includes Water and Lubricating Oils. (d) Includes value of containers, packing, etc., replacement 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.

In the following table particulars are given for each State during the year 1955-56.

TABLE 2 : BROOM AND BRUSH FACTORIES : STATES, 1955-56

Particulars	N.S.W.	VIC.	Q'LD.	S. A.	W. A.	TAS.	AUST.
	No.	No.	No.	No.	No.	No.	No.
Factories	54	25	10	9	3	2	103
Persons Employed -							
Males	399	378	111	256	(a)	(a)	1,260
Females	277	176	25	164	(a)	(a)	683
Total	676	554	136	420	(a)	(a)	1,943
	£'000	£'000	£'000	£'000	£'000	£'000	£'000
Salaries and Wages Paid	502	410	75	284	(a)	(a)	1,362
Value of -							
Power, Fuel and Light, etc. used	10	6	1	11	(a)	(a)	30
Materials, etc. used	1,099	806	80	488	(a)	(a)	2,538
Production	864	684	66	557	(a)	(a)	2,269
Output	1,973	1,496	147	1,056	(a)	(a)	4,837
Land and Buildings (b)	349	187	27	161	(a)	(a)	754
Plant and Machinery (b)	146	107	11	117	(a)	(a)	397
	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
H.P. of Engines ordinarily in use	828	631	69	938	(a)	(a)	2,739

(a) Not available for publication.

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

See also notes to Table No. 1 above.

2. 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 value of production are shown in the following table for the years 1938-39, 1945-46 and 1953-54 to 1955-56.

TABLE 3 : BROOM AND BRUSH FACTORIES :
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
	£	£	£	%
1938-39	143	504	223	62.47
1945-46	243	908	443	52.34
1953-54	646	2,282	1,065	58.32
1954-55	690	2,373	1,103	60.09
1955-56	725	2,489	1,168	60.00

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

3. PRINCIPAL MATERIALS USED AND ARTICLES PRODUCED. In the following table, details are given of the quantities and values of the principal materials used and articles produced for the years 1954-55 and 1955-56. While the figures in the table are generally confined to materials used and articles produced in Broom and Brush factories, in some cases the details include particulars of small quantities manufactured in other establishments.

TABLE 4 : PRINCIPAL MATERIALS USED AND ARTICLES PRODUCED IN BROOM AND BRUSH FACTORIES : AUSTRALIA

Particulars	1954-55		1955-56	
	Quantity	Value (£)	Quantity	Value (£)
	lb.		lb.	
MATERIALS USED: -				
Bristles - Natural ..	(a) 352,576	(a) 580,412	(a) 368,742	(a) 641,828
Synthetic ..	(a) 31,347	(a) 84,790	(a) 67,710	(a) 64,279
Hair ..	(a) 238,914	(a) 183,435	(a) 238,728	(a) 186,649
Millet ..	2,258,865	192,593	2,036,518	205,235
Bassine and Bass ..	729,272	91,639	797,541	104,663
Coir ..	270,148	20,070	248,605	18,443
Fibres n.e.i. ..	631,333	109,594	710,516	120,540
ARTICLES PRODUCED:-				
<u>Gross</u>				
Brushes -				
Hair and Cloth ..	(a) 6,288	(a) 148,857	(a) 4,050	(a) 106,181
Nail ..	(a) 9,738	(a) 83,190	(a) 9,603	(a) 62,892
Tooth ..	(b)	(b)	(b)	(b)
Scrubbing ..	(a) 11,903	(a) 170,227	(a) 11,548	(a) 159,651
Shaving ..	1,126	21,963	1,532	30,078
Paint and Varnish ..	43,165	1,470,824	44,075	1,541,886
Other (Artists, Cosmetic, etc.)	14,311	194,704	16,786	256,025
Industrial - Metal ..	(c)	122,835	(c)	138,241
Bristle ..	(c)	132,515	(c)	95,132
Mops - Floor ..	(a) 13,914	(a) 399,512	(a) 13,768	(a) 411,405
Dish ..	5,068	41,823	5,364	31,444
Dust ..	140	6,721	188	12,083
Brooms - Millet ..	10,069	474,071	9,555	487,473
Bassine ..	3,862	153,228	4,428	176,535
Hair and Bristle ..	5,784	353,213	5,879	374,109
<u>Number</u>				
Coir Mats ..	(a) 11,707	(a) 30,123	(a) 11,228	(a) 25,048
Carpet Sweepers (Non-Electric) ..	(a) 19,419	(a) 51,580	(a) 21,286	(a) 58,666
<u>Sq. Yds.</u>				
Coir Matting ..	28,256	17,242	(a) 32,891	(a) 17,165

(a) Includes materials used and articles produced in other establishments, details of which are not available for separate publication. (b) Not available for publication. (c) Quantity not available.

4. **EMPLOYMENT:** The numbers of employees shown in Tables 1, 2 and 6 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 for the years 1938-39, 1945-46 and 1953-54 to 1955-56 according to the average number employed during the actual period worked.

TABLE 5 : BROOM AND BRUSH FACTORIES
CLASSIFIED ACCORDING TO PERSONS EMPLOYED : AUSTRALIA

Number of Persons Employed in each Factory	1938-39		1945-46		1953-54		1954-55		1955-56	
	No. of Facto- ries	No. Em- ployed	No. of Facto- ries	No. Em- ployed	No. of Facto- ries	No. Em- ployed	No. of Facto- ries	No. Em- ployed	No. of Facto- ries	No. Em- ployed
Under 4	11	23	21	44	36	74	34	64	32	61
4	9	36	9	36	3	12	8	32	8	32
5 to 10	18	116	23	151	29	215	24	174	23	176
11 to 20	10	152	17	247	20	305	17	239	14	181
21 to 50	11	355	15	459	9	308	14	442	18	566
Over 50	11	212	9	850	9	977	9	1,023	8	939
TOTAL:	70	1,594	94	1,787	106	1,891	106	1,974	103	1,955
Average No. Employed Per Factory	23		19		18		19		19	

Further details of employment are furnished in the two tables following. In Table 6 the number of males and females employed are shown for the years 1938-39, 1954-55 and 1955-56 according to the nature of their employment, but because of the change in classification of occupational status adopted in 1945-46, group comparison between 1938-39 and the later years shown is not possible.

TABLE 6 : BROOM AND BRUSH FACTORIES :
PERSONS EMPLOYED CLASSIFIED ACCORDING TO OCCUPATIONAL STATUS : AUSTRALIA

Occupational Status	Males			Females		
	1938-39	1954-55	1955-56	1938-39	1954-55	1955-56
Working Proprietors	42	70	60	3	7	6
Managerial and Clerical Staff, including Salaried Managers and Working Directors	956	100	100	565	92	87
Chemists, Draftsmen and Other Laboratory and Research Staff		1	6		-	2
Foremen and Overseers		90	87		6	4
Workers in factory (Skilled and Unskilled)		1,036	1,002		563	576
Others, (Carters, Messengers, etc.)	18	4	5	3	1	8
TOTAL:	1,016	1,301	1,260	571	669	683

In the following table the number of persons employed in June for the years 1939, 1946 and 1954 to 1956 are shown according to age and sex distribution.

TABLE 7 : BROOM AND BRUSH FACTORIES
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									
1939 (a)	74	(b)	(b)	(b)	(b)	(b)	159	744	977
1946 (a)	46	63	45	60	35	25	228	988	1,262
1954 (c)	46	37	35	29	20	27	148	1,030	1,233
1955 (c)	42	45	26	26	22	25	144	1,059	1,245
1956 (c)	32	35	43	26	19	19	142	1,016	1,190
FEMALES									
1939 (a)	75	(b)	(b)	(b)	(b)	(b)	246	261	582
1946 (a)	20	26	31	47	35	36	175	419	614
1954 (c)	22	14	33	21	30	12	110	477	609
1955 (c)	24	34	28	40	18	29	149	529	702
1956 (c)	18	21	23	22	19	17	102	530	650

(a) Pay day nearest 15th of June. (b) Details not collected. (c) Last pay day in June.

5. **POWER EQUIPMENT:** Statistics of the power equipment installed are given in the next table. The details include the rated horsepower of engines ordinarily in use together with those in reserve or idle for the years 1938-39, 1954-55 and 1955-56.

TABLE 8 : BROOM AND BRUSH FACTORIES
TYPES AND RATED HORSEPOWER OF ENGINES, AUSTRALIA

Class of Engine	Rated Horsepower of Engines					
	Ordinarily in Use			In Reserve or Idle		
	1938-39	1954-55	1955-56	1938-39	1954-55	1955-56
Steam - Reciprocating ..	-	-	-	-	-	-
Turbine ..	-	-	-	-	-	-
Internal Combustion -						
Gas ..	-	-	-	25	-	-
Petrol or Other Light Oils ..	6	22	19	-	57	32
Heavy Oils ..	-	-	-	-	-	6
Total Prime Movers:	6	22	19	25	57	38
Motors Driven by Electricity -						
Purchased ..	1,124	2,685	2,720	89	135	154
Own Generation ..	-	-	-	-	-	-
Total Electricity:	1,124	2,685	2,720	89	135	154
TOTAL POWER EMPLOYED:	1,130	2,707	2,739	114	192	192

6. CONSUMPTION OF POWER, FUEL AND LIGHT. Details of the quantities and values of the various items of power, fuel and light etc., used are shown in the following table for the years 1938-39, 1954-55 and 1955-56.

TABLE 9 : BROOM AND BRUSH FACTORIES
POWER, FUEL AND LIGHT, ETC. USED, AUSTRALIA

Particulars	Unit of Quantity	Quantity			Value (£)		
		1938-39	1954-55	1955-56	1938-39	1954-55	1955-56
Power, Fuel and Light -							
Coal - Black ..	ton	77	-	-	134	-	-
Brown ..	"	-	-	-	-	-	-
Coke ..	"	48	67	71	75	388	431
Wood ..	"	53	188	322	49	786	1,336
Fuel Oil ..	gallon	1,051	2,771	3,731	35	298	474
Electricity ..	-	(a)	(a)	(a)	4,268	22,715	21,775
Gas ..	-	(a)	(a)	(a)	937	2,550	2,524
Other (Charcoal, etc.)	-	(a)	(a)	(a)	2	22	-
Water and Lubricating Oil Used ..	-	(a)	(a)	(a)	771	2,940	3,044
<u>Total:</u>		(a)	(a)	(a)	6,271	29,699	29,584

(a) Value only available.

7. VALUE OF LAND AND BUILDINGS, PLANT AND MACHINERY. Particulars of the book values of premises occupied and plant installed at the 30th June, for the years 1938-39, 1945-46 and 1953-54 to 1955-56 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 10 : BROOM AND BRUSH FACTORIES
VALUE OF LAND, BUILDINGS, PLANT AND MACHINERY, ETC. AUSTRALIA
(£)

Year	Book Values 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
1938-39	231,560	80,508	3,013	10,613	1,479	9,906
1945-46	313,676	112,863	13,993	40,758	1,821	20,143
1953-54	562,175	330,654	8,041	46,529	434	33,766
1954-55	629,146	355,253	29,229	58,317	434	34,848
1955-56	753,629	397,215	102,386	82,385	1,634	35,183

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

8. INTERNAL TRADE: The values of imports of Brooms and Brushware are given in the following table for the years 1938-39, and 1952-53 to 1955-56.

TABLE 11 : IMPORTS OF BRUSHWARE : AUSTRALIA

(£A. f.o.b. port of shipment)

Year	Brooms, Whisks, Mops, Carpet Sweepers and Scrubbing Brushes	Hair, Nail, Cloth, and Shaving Brushes	Paint and Varnish Brushes	Tooth Brushes	Brushes N.E.I.(a)	Total Brooms and Brushware
1938-39	30,033	30,400	4,477	4,527	32,395	101,832
1952-53	8,997	14,707	1,533	1,465	51,471	78,173
1953-54	47,151	65,340	4,025	5,673	165,531	287,720
1954-55	78,825	92,392	8,206	7,028	174,824	361,275
1955-56	70,057	74,690	7,476	4,933	161,360	318,516

(a) Includes Artists Brushes and Brushes with Bristles of metal and metal admixtures.

Particulars of the imports of relevant materials are shown in the following table for the years 1938-39, and 1952-53 to 1955-56.

TABLE 12 : BROOMS AND BRUSHES : IMPORTS OF CERTAIN BASIC MATERIALS (a)

Year	Bristles of Animal Origin		Hair, not Human		Vegetable Fibres			
					Bass		Cair	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
	Cwt.	£	Cwt.	£	Cwt.	£	Cwt.	£
1938-39	(b) 1,766	(b) 85,700	8,551	27,467	3,141	8,078	42,841	10,235
1952-53	1,422	344,162	1,515	38,441	2,543	25,954	162,748	242,936
1953-54	2,883	475,696	12,594	251,775	3,265	34,722	192,515	302,888
1954-55	5,226	505,680	5,345	90,783	3,901	42,222	184,466	271,221
1955-56	4,011	609,631	16,098	367,439	4,166	42,952	161,180	220,859

(a) Imports of Synthetic monofilaments suitable for use as bristles amounted to 156,519 lb. valued at £A195,055 in 1955/56. Separate details are not available for earlier years.

(b) Includes imports of Horse Hair subsequently shown with "Hair, not human".

NOTE : - Values are expressed in £A. f.o.b. port of shipment.

S. R. CARVER
ACTING COMMONWEALTH STATISTICIAN

COMMONWEALTH BUREAU OF CENSUS AND STATISTICS

CANBERRA, A.C.T.

5TH AUGUST, 1957.

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.