

COMMONWEALTH BUREAU OF CENSUS AND STATISTICS

CANBERRA, AUSTRALIA

MANUFACTURING INDUSTRIES

1961 - 62

NO. 10. BROOMS AND BRUSHES

Prepared Under Instructions from
THE RIGHT HONORABLE THE TREASURER,

by

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EXPLANATORY NOTES

GENERAL: The range of bulletins in this series for 1961-62 is the same as for 1960-61, and a complete list is shown inside the back cover of this bulletin.

Where a number of industries are combined in one bulletin, the introductory paragraph on page 3 specifies the industries so included.

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. 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. However, figures in the tables showing details of articles produced represent total recorded production of the articles listed, and include quantities produced, as subsidiary production, in industries otherwise classified.

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. The figures do not include details relating to small establishments not classified for statistical purposes as factories.

All persons employed in the manufacturing activities of the factory are counted as factory employees. The figures relating to employment, therefore, include working proprietors as well as "out-workers", but 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 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 power fuel etc. used includes the cost of light, lubricants and water used.

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, in addition to wages and salaries, such items as interest, depreciation, profits, taxation, advertising and other sundry charges are met. As details of these other costs of production are not collected, the amounts of profit resulting from factory operations cannot be ascertained from the figures contained herein.

MANUFACTURING INDUSTRIES, AUSTRALIA : 1961-62BROOMS 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 1957-58 to 1961-62.

TABLE 1 : BROOM AND BRUSH FACTORIES, AUSTRALIA

Year	Factories	Persons Employed	Salaries and Wages Paid	Power, Fuel and Light etc. Used	Value of Materials, etc. Used	Value of Production	Value of Output
	(1)	(a)(2)	(b)(3)	(c)(4)	(d)(5)	(e)(6)	(f)(7)
	Number	Number	£'000	£'000	£'000	£'000	£'000
1957-58	106	1,910	1,436	41	2,463	2,538	5,042
1958-59	102	1,841	1,363	44	2,548	2,496	5,088
1959-60	100	1,859	1,475	46	2,873	2,792	5,711
1960-61	101	1,892	1,543	51	2,927	2,936	5,914
1961-62	99	1,873	1,578	52	3,231	2,917	6,200

(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 column (4) and (5). (f) Value of goods produced.

In the following table particulars are given for each State during the year 1961-62.

TABLE 2 : BROOM AND BRUSH FACTORIES : STATES, 1961-62

Particulars	N.S.W.	VIC.	Q'LD.	S.A.	W.A.	TAS.	AUSTRALIA
	No.	No.	No.	No.	No.	No.	No.
Factories	51	25	10	9	2	2	99
Persons Employed -							
Males	379	344	121	229	(a)	(a)	1,192
Females	269	188	26	167	(a)	(a)	681
<u>TOTAL:</u>	648	532	147	396	(a)	(a)	1,873
	£'000	£'000	£'000	£'000	£'000	£'000	£'000
Salaries and Wages Paid	589	457	95	323	(a)	(a)	1,578
Value of -							
Power, Fuel and Light, etc. used	17	11	1	20	(a)	(a)	52
Materials, etc. used	1,280	1,225	92	563	(a)	(a)	3,231
Production	1,037	887	96	771	(a)	(a)	2,917
Output	2,334	2,123	189	1,354	(a)	(a)	6,200
Land and Buildings (b)	529	491	41	378	(a)	(a)	1,542
Plant and Machinery (b)	204	199	15	223	(a)	(a)	656
	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
H.P. of Engines ordinarily in use	1,139	996	118	1,228	(a)	(a)	3,791

(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 1957-58 to 1961-62.

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 (a)	Value of Production per Person Engaged (b)	Ratio of Salaries and Wages to Value of Production
	£.	£.	£.	£.
1957-58	780	2,640	1,329	56.56
1958-59	765	2,764	1,356	54.62
1959-60	819	3,072	1,502	52.84
1960-61	844	3,072	1,502	52.56
1961-62	869	3,310	1,557	54.10

(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 1960-61 and 1961-62. In addition to production in factories classified for statistical purposes to the Brooms and Brushes industry, the details shown in the following table include relevant production in factories otherwise classified.

TABLE 4 : PRINCIPAL MATERIALS USED AND ARTICLES PRODUCED

AUSTRALIA

Particulars	1960-61		1961-62	
	Quantity	Value (£)	Quantity	Value (£)
	cwt.		cwt.	
MATERIALS USED:-				
Bristles - Natural	2,711	707,758	2,237	693,260
Synthetic	2,779	234,945	3,351	268,960
Hair	999	89,018	931	87,581
Vegetable Fibres -				
Coir (Coconut)	1,074	18,522	1,032	21,306
Millet	19,710	212,389	17,284	217,868
Plassava - Bassa	2,918	35,887	3,090	40,278
Bassine	2,775	25,895	1,641	25,328
Palmyra	3,664	26,369	2,374	26,594
Other	3,895	70,192	5,718	94,669
Yarn - Coir	1,979	16,723	1,864	16,947
	gross		gross	
ARTICLES PRODUCED:-				
Brushes -				
Hair and Cloth	7,318	118,732	7,211	139,963
Nail	9,089	67,288	7,431	70,535
Tooth	79,154	336,146	80,466	353,722
Scrubbing	9,207	180,139	9,104	191,976
Shaving	407	9,819	194	4,778
Paint and Varnish	43,542	1,788,290	39,951	1,788,781
Other (Artists, Cosmetic, etc.)	38,416	394,482	31,155	330,416
Industrial - Metal	(a)	299,718	(a)	298,099
Bristle	(a)	127,723	(a)	96,744
Mops - Floor	16,116	559,249	17,449	652,059
Brooms - Millet	9,618	528,001	10,374	556,964
Bass and Bassine	5,059	235,095	5,462	268,588
Hair and Bristle	6,383	469,129	7,575	540,643
	number		number	
Coir Mats	16,211	50,797	14,482	40,376
Carpet Sweepers (Non-Electric)	29,834	67,702	32,279	67,235
	sq.yd.		sq.yd.	
Coir Matting	34,233	19,325	31,680	17,593

(a) Quantity not collected.

4. **EMPLOYMENT:** The number of employees shown in Tables 1, 2 and 6 has 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 1957-58 to 1961-62 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	1957-58		1958-59		1959-60		1960-61		1961-62	
	No. of Fac- tories	Number Em- ployed	No. of Fac- tories	Number Em- ployed	No. of Fac- tories	Number Em- ployed	No. of Fac- tories	Number Em- ployed	No. of Fac- tories	Number Em- ployed
Under 4	36	65	35	66	31	56	31	60	30	60
4	7	28	4	16	7	28	9	36	4	16
5 to 10	23	182	25	182	25	183	20	148	26	185
11 to 20	17	245	17	253	15	229	21	307	19	279
21 to 50	15	519	12	412	13	445	11	404	10	351
Over 50	8	873	9	921	9	919	9	943	10	988
Total	106	1,912	102	1,850	100	1,860	101	1,898	99	1,879
Average Number Employed per Factory	18		18		19		19		19	

Further details of employment are furnished in the two tables which follow. In Table 6 the numbers of males and females employed are shown for the years 1959-60 to 1961-62 according to the nature of their employment.

TABLE 6 : BROOM AND BRUSH FACTORIES :

PERSONS EMPLOYED CLASSIFIED ACCORDING TO OCCUPATIONAL STATUS :

AUSTRALIA

Occupational Status	Males			Females		
	1959-60	1960-61	1961-62	1959-60	1960-61	1961-62
Working Proprietors	50	54	48	9	10	9
Managerial and Clerical Staff, including Salaried Managers and Working Directors	105	106	112	85	86	100
Chemists, Draftsmen and Other Laboratory and Research Staff	7	5	5	1	1	1
Foremen and Overseers	86	1,032(a)	1,027(a)	9	598(a)	571(a)
Workers in Factory (Skilled and Unskilled)	949			557		
Others, (Carters, Messengers, etc.)	1			-		
Total	1,198	1,197	1,192	661	695	681

(a) Separate details no longer collected.

In the following table the number of persons employed in June in each of the years 1958 to 1962 is 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)

Last Pay Day in 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									
1958	38	23	24	33	36	26	142	1,018	1,198
1959	34	36	27	31	26	24	144	990	1,168
1960	36	33	36	25	31	22	147	976	1,159
1961	33	(a)	(a)	(a)	(a)	(a)	136	952	1,121
1962	41	(a)	(a)	(a)	(a)	(a)	163	967	1,171
FEMALES									
1958	29	30	22	24	26	11	113	522	664
1959	17	29	20	31	28	13	121	503	641
1960	24	18	33	24	27	34	136	525	685
1961	15	(a)	(a)	(a)	(a)	(a)	126	473	614
1962	20	(a)	(a)	(a)	(a)	(a)	149	518	687

(a) Separate details not now collected.

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 1959-60 to 1961-62.

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		
	1959-60	1960-61	1961-62	1959-60	1960-61	1961-62
Steam - Reciprocating	..	..	..	..	..	..
Turbine	..	..	..	..	..	..
Internal Combustion -						
Gas	..	..	..	..	..	..
Petrol or Other Light Oils	13	27	13	15	15	18
Heavy Oils	6	..	..	..	..	..
Total Prime Movers:	19	27	13	15	15	18
Motors Driven by Electricity -						
Purchased	3,460	3,795	3,778	127	138	259
Own Generation	..	..	..	..	..	..
Total Electricity	3,460	3,795	3,778	127	138	259
TOTAL POWER EMPLOYED	3,479	3,822	3,791	142	153	277

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 1959-60 to 1961-62.

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

Particulars	Unit of Quantity	Quantity			Value (£)		
		1959-60	1960-61	1961-62	1959-60	1960-61	1961-62
Power, Fuel and Light -							
Coke	ton.	48	61	53	413	426	416
Wood	"	57	53	54	260	212	212
Fuel Oil	gal.	4,518	2,870	2,804	480	261	299
Electricity	-	(a)	(a)	(a)	35,156	37,372	38,422
Gas	-	(a)	(a)	(a)	4,479	4,763	5,015
Other (Charcoal, etc.)	-	(a)	(a)	(a)	..	15	..
Water and Lubricating Oil used	-	(a)	(a)	(a)	5,304	7,887	7,739
Total		(a)	(a)	(a)	46,092	50,936	52,103

(a) Value only available.

7. VALUE OF LAND AND BUILDINGS, PLANT AND MACHINERY: Particulars of the book values of premises occupied and plant installed as at 30th June, for the years 1958 to 1962 are shown in the next table. Details of the values of additions and replacements made and depreciation allowed during the years 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
1957-58	1,189,860	517,369	18,808	73,866	856	51,806
1958-59	1,150,949	518,136	37,615	76,959	1,028	55,926
1959-60	1,375,184	513,704	88,796	62,373	399	57,558
1960-61	1,496,653	622,474	100,864	152,627	1,157	57,886
1961-62	1,542,072	655,724	47,855	116,577	1,124	65,608

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

8. **EXTERNAL TRADE:** The values of imports of Brooms and Brushware are given in the following table for the years 1957-58 to 1961-62.

TABLE 11 : IMPORTS OF BRUSHWARE : AUSTRALIA
(£A. f.o.b. Port of Shipment)

Year	Brooms, Whisks, Mops, Carpet Sweepers and Scrubbing Brushes	Hair, Cloth and Shaving Brushes	Paint and Varnish Brushes	Tooth Brushes	Brushes n.e.i. (a)	Total Brooms and Brushware
1957-58	67,874	58,739	3,240	7,134	156,274	293,261
1958-59	80,357	69,694	4,424	5,904	155,299	316,678
1959-60	92,601	93,442	7,948	12,379	195,689	402,059
1960-61	105,923	134,073	(b)	(b)	289,798	529,794
1961-62	133,476	156,469	(b)	(b)	249,999	539,944

(a) Includes Artists Brushes and Brushes with bristles of metal and metal admixtures.
(b) Not recorded separately; included in "Brushes n.e.i."

Particulars of the imports of relevant materials are shown in the following table for the years 1957-58 to 1961-62.

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

Year	Bristles of Animal Origin		Hair, not Human		Vegetable Fibres			
					Basa		Coir	
	Quantity cwt.	Value £	quantity cwt.	Value £	Quantity cwt.	Value £	Quantity cwt.	Value £
1957-58	3,143	486,109	14,267	360,556	3,886	38,196	155,041	248,160
1958-59	3,549	480,623	24,700	536,563	3,502	34,629	143,930	228,937
1959-60	3,690	608,025	32,656	739,817	3,928	38,042	150,254	294,796
1960-61	3,055	695,373	39,862	728,813	3,425	33,063	138,049	321,251
1961-62	2,080	558,823	13,112	290,203	4,378	41,850	134,777	187,883

(a) Imports of synthetic monofilaments suitable for use as bristles amounted to 172,862 lb. valued at £194,876 in 1957-58, 285,684 lb. valued at £207,174 in 1958-59, 435,702 lb. valued at £302,165 in 1959-60, 378,174 lb. valued at £278,845 in 1960-61 and 405,960 lb. valued at £282,259 in 1961-62.

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

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COMMONWEALTH BUREAU OF CENSUS AND STATISTICS
CANBERRA, A.C.T. 30TH AUGUST, 1963

NOTE: Inquiries concerning these statistics may be made in Canberra by telephoning UO41; Extension 301 or, in each State Capital, by telephoning the office of the Bureau of Census and Statistics.