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MANUFACTURING INDUSTRIES,
1949 - 50.

NO. 31. BROOMS AND BRUSHES

Prepared Under Instructions from
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MANUFACTURING INDUSTRIES : AUSTRALIA, 1949-50

PREFACE

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

3. SCOPE 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.

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MANUFACTURING INDUSTRIES, AUSTRALIA : 1949-50.

Note: Summaries already published in this Series are:- 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, Industrial Metals-Ferrous-Parts I to 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; 15, Hosiery and Other Knitted Goods; 16, Tanneries; 17, Boots and Shoes; 18, Clothing; 19, Flour and Other Grain Mills; 20, Biscuits; 21, Confectionery; 22, Jam, Fruit and Vegetable Canning; 23, Pickles, Sauces, Condiments, Coffee, Spices, etc.; 25, Butter, Cheese, and Condensed, Concentrated, etc., Milk; 26, Breweries; 27, Tobacco, Cigars and Cigarettes; 28, Sawmilling; 29, Rope and Cordage; 30, Rubber Works; 32, Electric Light and Power Works; 33, Gas Works; 34, Cotton Mills; 35, Paper Mills; 36, Wineries and Distilleries; 37, Aerated Waters and Cordials; 38, Meat and Fish Preserving; and 39, Wire and Wire Working (including Nails).

BROOMS 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 1947-48 to 1949-50.

TABLE I : BROOM AND BRUSH FACTORIES, AUSTRALIA.

Year	Number of Factories	Persons Employed	Salaries & Wages Paid (b)	Power, Fuel and Light, etc. Used (c)	Value of Materials, etc. Used (c)	Value of Production (d)	Value of Output (e)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	No.	No.	£'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
1947-48	98	2,058	601	14	1,345	1,088	2,448
1948-49	100	2,109	695	16	1,630	1,140	2,786
1949-50	103	2,125	768	20	1,883	1,342	3,245

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

In the following table particulars of the industry are given for each State during the year 1949-50.

TABLE II : BROOM AND BRUSH FACTORIES : STATES, 1949-50

Particulars	N.S.W.	VIC.	Q'LD.	S.A.	W.A.	T.S.	AUSTRALIA
Number of Factories	52	28	8	9	3	3	103
Number Employed (a) -							
Males	420	428	98	336	124	38	1,444
Females	291	206	20	118	43	3	681
Total	711	634	118	454	167	41	2,125
Value of -	£.	£.	£.	£.	£.	£.	£.
Salaries and Wages Paid (b)	258,386	254,037	38,563	161,096	45,252	10,659	767,993
Power, Fuel & Light etc. used	5,513	7,344	466	5,926	709	168	20,126
Materials, etc. used	612,989	569,805	55,243	593,116	39,606	12,683	1,883,442
Production (a)	479,564	458,407	50,146	295,748	51,958	8,982	1,341,825
Output	1,098,566	1,032,356	105,875	894,790	92,273	21,833	3,245,393
Land and Buildings	177,692	139,973	16,092	123,340	19,123	3,475	499,695
Plant & Machinery	97,833	101,751	7,770	78,360	7,467	3,334	296,515
H.P. of Engines	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
Ordinarily in use	741	1,436	51	795	206	53	3,282

(a) Includes Working Proprietors. (b) Excludes amounts drawn by Working Proprietors. (c) See note (d) to Table I.

2. AVERAGE SALARIES, OUTPUT AND PRODUCTION: Particulars of the average salary and wage paid in Broom and Brush factories, 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 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
	£.	£.	£.	%
1938-39	143	504	223	62.47
1945-46	243	908	443	52.34
1947-48	301	1,190	529	55.25
1948-49	340	1,321	540	60.99
1949-50	374	1,527	612	57.23

(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 in Broom and Brush Factories in Australia for the years 1948-49 and 1949-50. While the figures in the table are generally confined to materials used and articles produced in Broom and Brush Factories, in a few cases the details include particulars of small quantities produced in other works as indicated in footnote (a).

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

Particulars	1948-49		1949-50	
	Quantity lb.	Value £.	Quantity lb.	Value £.
<u>MATERIALS USED:-</u>				
Bristles - Natural	272,000	472,987	224,763	495,515
Synthetic	33,871	68,798	46,677	84,629
Hair	235,942	107,787	260,776	128,334
Millet	2,569,251	111,274	2,848,632	129,835
Bassine, including Pass	528,366	51,488	590,825	62,124
	Gross		Gross	
<u>ARTICLES PRODUCED:-</u>				
Brushes -				
Hair and Cloth	6,693	188,731	8,621	246,954
Hail	7,401	37,227	8,862	54,425
Tooth	47,680	210,476	47,542	273,965
Scrubbing	10,466	87,887	10,510	100,645
Shaving	1,884	34,835	2,322	38,440
Paint and Varnish	27,096	741,017	29,164	732,809
Other	(a)23,511	(a)209,373	15,544	196,684
Mops -				
Floor	(a)7,850	(a)139,899	(a)9,750	(a)183,899
Dish	(a)2,906	(a) 8,964	2,824	11,054
Dunt	374	3,985	384	6,364
Brooms -				
Millet	10,392	263,037	11,464	330,917
Bassine	3,093	89,465	3,365	96,037
Hair and Bristle	(b)3,883	(b)164,079	(b)4,250	(b)203,498
	No.		No.	
Coir Mats	6,509	6,130	6,704	8,179
	sq. yds.		sq. yds.	
Coir Matting	41,013	14,028	(c)	(c)

(a) Includes production in other works details of which are not available for separate publication.

(b) Includes small quantity of Hair and Fibre.

(c) Not available for publication.

4. **EMPLOYMENT:** The numbers of employees in Broom and Brush factories, shown in Tables I, II and VI 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 1947-48 to 1949-50 according to the average number employed during the actual period worked.

TABLE V FACTORIES CLASSIFIED ACCORDING TO PERSONS EMPLOYED : AUSTRALIA

No. of Persons Employed in each Factory	1938-39		1945-46		1947-48		1948-49		1949-50	
	No. of Fact-ories	No. Em-plied	No. of Fact-ories	No. Em-plied	No. of Fact-ories	No. Em-plied	No. of Fact-ories	No. Em-plied	No. of Fact-ories	No. Em-plied
Under 4	11	23	21	44	19	40	22	46	22	43
4	9	36	9	36	11	44	5	20	7	28
5 to 10	18	116	23	151	20	149	29	206	30	217
11 to 20	10	152	17	247	22	319	21	301	21	305
21 to 50	11	355	15	459	15	483	13	422	12	395
51 to 100	9	684	7	528	7	462	5	333	8	594
Over 100	2	228	2	322	4	566	5	788	3	549
TOTAL:	70	1,594	94	1,727	98	2,063	100	2,116	103	2,131
Average No. Employed Per Factory	23		19		21		21		21	

Further details of employment in the Brooms and Brushes Industry are furnished in the two tables following. In Table VI the number of males and females employed are shown for the years 1938-39, 1948-49 and 1949-50 according to the nature of their employment, but because of the change in classification which operated from 1945-46, comparison between 1938-39 and later years shown is not wholly effective.

TABLE VI. PERSONS EMPLOYED CLASSIFIED ACCORDING TO OCCUPATIONAL STATUS : AUSTRALIA

Occupational Status	Males			Females		
	1938-39	1948-49	1949-50	1938-39	1948-49	1949-50
Working Proprietors	42	64	65	3	2	6
Managerial & Clerical Staff, incl. Managers & Working Directors	(	110	113	(	94	88
Chemists, Draftsmen & Other Laboratory & Research Staff	956	6	8	565	-	-
Foremen and Overseers	(	84	79	(	5	9
Workers in Factory (Skilled and unskilled)	(	1,200	1,175	(	526	575
Other (Carters, Messengers, Etc.)	18	4	4	3	14	3
TOTAL:	1,016	1,468	1,444	571	641	681

The number of persons employed in Broom and Brush factories, on or about the 15th June for the years 1939, 1946 and 1948 to 1950 are distributed according to age and sex in Table VII.

TABLE VII. 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
<u>MALES</u>									
1939	74	(a)	(a)	(a)	(a)	(a)	159	744	977
1946	46	63	45	60	35	25	228	988	1,262
1948	25	31	43	45	28	35	182	1,158	1,365
1949	31	23	42	37	46	34	182	1,206	1,419
1950	34	35	32	49	41	49	206	1,174	1,414
<u>FEMALES</u>									
1939	75	(a)	(a)	(a)	(a)	(a)	246	261	582
1946	20	26	31	47	35	36	175	419	614
1948	6	14	32	28	27	39	140	455	601
1949	11	19	24	30	33	31	137	485	633
1950	12	12	20	26	33	22	113	618	743

(a) Details not collected.

5. **POWER EQUIPMENT:** Statistics of the power equipment of the factories included in this group are given in the next table. The details given include the rated horse-power of engines ordinarily in use together with those in reserve or idle for the years 1938-39, 1948-49 and 1949-50.

TABLE VIII. TYPES AND RATED HORSE-POWER OF ENGINES, AUSTRALIA

Class of Engine	Rated Horse-Power of Engines					
	Ordinarily in Use			In Reserve or Idle		
	1938-39	1948-49	1949-50	1938-39	1948-49	1949-50
Steam - Reciprocating	-	10	-	-	-	-
Internal Combustion -						
Gas	-	6	-	25	-	-
Petrol or Other Light Oils	6	69	86	-	27	31
Heavy Oils	-	6	-	-	-	-
<u>Total Prime Movers:</u>	6	91	86	25	27	31
Motors Driven by Electricity -						
Purchased	1,124	3,135	3,196	89	91	111
Own Generation	-	-	-	-	25	-
<u>Total Electricity:</u>	1,124	3,135	3,196	89	116	111
<u>TOTAL POWER USED:</u>	1,130	3,226	3,282	114	143	142

6. CONSUMPTION OF POWER, FUEL AND LIGHT: Details of the quantities and value of the various items of power, fuel and light etc., used in Broom and Brush Factories, are shown in the following table for the years 1938-39, 1948-49 and 1949-50.

TABLE IX. POWER, FUEL AND LIGHT, ETC. USED, AUSTRALIA

Particulars	Unit of Quantity	Quantity			Value (£)		
		1938-39	1948-49	1949-50	1938-39	1948-49	1949-50
Power, Fuel and Light -							
Coal - Black	ton	77	58	99	134	159	115
Brown	"	-	97	166	-	234	196
Coke	"	48	137	52	75	353	190
Wood	"	53	415	409	49	1,134	1,158
Fuel Oil	gal.	1,051	1,469	7,861	35	212	832
Electricity	-	(a)	(a)	(a)	4,268	10,470	12,959
Gas	-	(a)	(a)	(a)	937	1,564	1,632
Other (Charcoal, etc.)	-	(a)	(a)	(a)	2	-	1
Water and Lubricating Oil Used.	-	(a)	(a)	(a)	771	2,076	3,043
TOTAL:		(a)	(a)	(a)	6,271	16,202	20,126

(a) Value only available.

7. VALUE OF LAND AND BUILDINGS, PLANT AND MACHINERY: Particulars of the book values of premises occupied and plant used in Broom and Brush Factories at the 30th June for the years 1938-39, 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 X. VALUE OF LAND BUILDINGS, PLANT & MACHINERY, ETC.
AUSTRALIA

(£)

Year	Book Value as at 30th June (a)		Additions and Replacement 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
1947-48	377,014	191,248	35,700	73,929	1,180	28,795
1948-49	472,016	266,958	30,652	100,014	1,744	43,733
1949-50	499,695	296,515	21,802	65,066	1,955	36,933

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

8. EXTERNAL TRADE: The values of imports of Brushware are given in the following table for the years 1938-39, and 1946-47 to 1949-50.

TABLE XI. IMPORTS OF BRUSHWARE : AUSTRALIA

(£A.f.o.b.)

Year	Brooms, Whisks, Mops, Carpet Sweepers	Hair, Nail, Clothes, Scrubbing and Shaving Brushes	Painters' Brushes	Tooth Brushes	N.E.I.	Total Brushware
1938-39	30,033	30,400	6,477	4,527	32,395	101,832
1946-47	27,666	95,995	9,298	9,790	140,633	283,382
1947-48	52,078	148,358	18,178	2,989	151,424	373,027
1948-49	28,131	111,246	11,571	3,583	105,771	260,362
1949-50	44,882	107,940	26,547	5,148	104,963	289,480

Particulars of the imports of materials used in the Broom and Brush industry are shown in the following table for the years 1938-39, and 1946-47 to 1949-50.

TABLE XII. BROOM AND BRUSH FACTORIES : IMPORTS OF MATERIALS USED

Year	Bristles, Horse- hair, Drafts		Hair, not Human		Hass		Coir	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
	cwt	£A.f.o.b.	cwt	£A.f.o.b.	cwt	£A.f.o.b.	cwt	£A.f.o.b.
1938-39	1,766	85,700	8,651	27,467	3,141	8,078	42,841	10,235
1946-47	2,711	421,689	1,480	10,441	2,308	21,019	97,678	194,303
1947-48	3,418	428,237	2,573	8,675	1,377	13,312	84,420	106,405
1948-49	2,452	446,076	6,972	37,976	814	7,083	122,252	146,321
1949-50	2,550	460,026	4,207	29,167	1,209	10,047	168,836	264,032

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