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CANBERRA.

OFFICIAL STATISTICS, COMMONWEALTH OF AUSTRALIA.

MANUFACTURING INDUSTRIES,
1938-39.

NO. 31 BROOMS AND BRUSHES

PREPARED UNDER INSTRUCTIONS FROM
THE HONORABLE THE TREASURER.

BY

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P R E F A C E

1. Industries included in the Series: A complete list of the industries for which summaries in this series are being issued is given on the back of the cover page. They will be published as the material becomes available, and not necessarily in the order shown in the list. The following summaries have already been published: Nos. 1 - 17, 19 - 30.

2. Classification of Factories: The classification of factories in Australia is based on the nature of the product. Where two or more distinct types of industrial activity are carried on in one establishment, factory proprietors are requested to furnish separate returns for each activity. In some instances, however, this is not practicable, and in such cases 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, Wood products and some other articles. In consequence, and to an extent which will vary with individual industries, the figures may include the subsidiary but extraneous activities of those establishments included in the industry, while they will exclude relevant activities which are subsidiary to the predominant activity of establishments classified to some other industry. This qualification is not important in the case of Brooms and Brushes, the industry with which this summary is concerned.

3. 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 an industrial 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, and retailing storemen. The figures do include, however, proprietors who work in their own business and "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.

ROLAND WILSON
Commonwealth Statistician

Canberra, A.C.T.
19th June, 1940.

BROOMS AND BRUSHES.

The following table furnishes a summary of the principal statistics of the factories engaged in the manufacture of Brooms and Brushes.

1. BROOM AND BRUSH FACTORIES: AUSTRALIA, 1908 TO 1938-39.

Year	Number of Factories	Persons Employed (a)	Salaries and Wages Paid (b)	Power, Fuel and Light Used	Value of Other Materials Used	Value of Production	Value of Output
	No.	No.	£'000	£'000	£'000	£'000	£'000
1908	52	(c) 694	43	1	96	72	169
1913	55	(c) 857	67	1	150	103	254
1920-21	65	(c) 1,179	158	3	351	227	581
1928-29	62	(d) 1,211	188	5	370	296	671
1929-30	63	1,253	188	5	363	317	675
1930-31	64	1,157	159	5	292	259	556
1931-32	54	1,077	139	5	272	246	523
1932-33	61	1,163	139	4	295	251	550
1933-34	65	1,195	146	5	304	260	569
1934-35	67	1,161	168	5	338	292	635
1935-36	63	1,270	157	5	357	289	651
1936-37	67	1,443	189	5	393	321	719
1937-38	67	1,475	206	6	448	354	806
1938-39	70	1,587	221	6	470	324	800

(a) Including Working Proprietors. (b) Exclusive of amounts drawn by Working Proprietors. (c) Average over period worked by factory. (d) For 1928-29 and succeeding years, the employment figures have been averaged over the whole year.

In the following table particulars of the Industry are given for each State during the year 1938-39.

2. BROOM AND BRUSH FACTORIES: STATES, 1938-39.

Particulars	New South Wales	Vic-toria	Queens-land	South Aus-tralia	Western Aus-tralia	Tas-mania	AUSTRALIA
	No.	No.	No.	No.	No.	No.	No.
Number of Factories	34	16	10	6	2	2	70
Number Employed(a)-							
Males ..	310	278	137	149	104	38	1,016
Females ..	296	155	32	43	40	5	571
Total ..	606	433	169	192	144	43	1,587
	£	£	£	£	£	£	£
Value of -							
Salaries and Wages Paid (b)	91,852	65,563	22,190	23,110	(c)	(c)	221,249
Fuel used	2,144	2,221	252	1,192	(c)	(c)	6,271
Materials used	187,849	163,044	22,608	74,380	(c)	(c)	470,033
Production	164,261	101,525	24,154	12,500	(c)	(c)	324,161
Output ..	354,254	266,790	47,014	86,072	(c)	(c)	800,485
Land and Buildings	110,941	52,217	14,526	31,266	(c)	(c)	231,560
Plant and Machinery	26,267	29,279	5,701	12,029	(c)	(c)	80,508
	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
H.P. of Engines Ordinarily in use ..	265	360	35	303	(c)	(c)	1,130

(a) Includes Working Proprietors. (b) Exclusive of amounts drawn by Working Proprietors. (c) Not available for publication. These figures are included in the total for Australia.

Particulars of the average salary and wage paid together with the average values per employee of output and production are shown in the following table for each of the years indicated:-

/3. AVERAGE

3. AVERAGE SALARIES AND WAGES PAID, OUTPUT, ETC. PER EMPLOYEE:
AUSTRALIA, 1908 TO 1938-39.

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
	£	£	£	%
1908	67	243	103	60.58
1913	83	296	120	64.97
1920-21	141	493	192	69.83
1928-29	163	554	244	63.64
1929-30	157	539	253	59.38
1930-31	144	480	224	61.43
1931-32	135	486	228	56.44
1932-33	125	473	216	55.46
1933-34	129	476	218	56.28
1934-35	129	466	215	57.64
1935-36	129	512	227	54.30
1936-37	135	497	222	58.92
1937-38	144	548	240	58.16
1938-39	143	504	204	68.25

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

In the following table details are given of the quantities and values of materials used and articles produced in Broom and Brush Factories in Australia for the years 1937-38 and 1938-39.

4. BROOMS AND BRUSHES: AUSTRALIA, 1937-38 AND 1938-39.

Particulars	1937-38		1938-39	
	Quantity	Value	Quantity	Value
	lb.	£	lb.	£
Materials Used:				
Bristles	218,565	135,630	218,015	127,768
Hair	191,796	40,702	226,932	42,671
Millet	2,156,674	55,531	2,184,787	51,481
Bassine, including base	416,463	14,040	481,826	14,685
Coir	53,244	994	177,037	3,188
Other Materials	-	185,491	-	213,843
Total Materials Used:	-	432,368	-	453,636
	Gross	£.	Gross	£.
Articles Produced:				
Brushes -				
Hair and Cloth.. ..	3,370	35,255	3,229	30,962
Nail	8,756	16,894	7,555	14,747
Tooth	32,564	106,796	34,296	108,748
Scrubbing	3,433	32,077	10,686	38,920
Shaving	1,418	10,998	1,149	9,109
Paint and Varnish	21,314	173,028	20,399	155,892
Other	9,127	53,659	10,653	63,233
Mops -				
Floor	2,188	20,944	2,556	20,014
Dish	963	2,935	1,297	2,543
Dust	648	6,454	710	6,205
Brooms -				
Millet	11,243	152,900	11,494	141,613
Bassine	2,093	28,575	2,339	29,316
Hair	4,177	65,897	3,392	60,196
Value of Unrecorded Production including Other Work done	-	101,212	-	98,807
Total Value of Output:	-	807,622	-	800,485

The number of employees in Table 2 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 according to the average number employed during the actual period worked.

5. FACTORIES CLASSIFIED ACCORDING TO HANDS EMPLOYED: AUSTRALIA, 1908 TO 1937-38.

Number of Persons Employed in each Factory	1908		1913		1920-21		1928-29		1937-38(a)	
	Number of Factories	Number Employed	Number of Factories	Number Employed	Number of Factories	Number Employed	Number of Factories	Number Employed	Number of Factories	Number Employed
Under 4	5	11	5	9	8	17	12	23	13	29
4	6	24	4	16	4	16	8	32	6	32
5 to 10	21	144	23	158	20	135	13	94	14	92
11 to 20	10	150	8	122	14	196	8	133	9	129
21 to 50	9	285	12	340	15	448	14	435	13	409
51 to 100	1	80	3	212	3	255	6	406	8	568
Over 100	-	-	-	-	1	112	1	102	2	227
TOTAL:	52	694	55	857	65	1,179	62	1,225	67	1,486
Average number employed per Factory:	19		16		18		20		22	

(a) 1938-39 not yet available.

Further details of employment in the industrial group - Brooms and Brushes, are furnished in the next three tables. In the first the employees have been classified according to the nature of their employment.

6. PERSONS EMPLOYED CLASSIFIED ACCORDING TO GRADE OF OCCUPATION: AUSTRALIA, 1908 TO 1938-39.

Grade of Occupation	1908	1913	1920-21	1928-29	1938-39
	No.	No.	No.	No.	No.
Working Proprietors ..	49	55	59	56	45
Managers and Overseers ..	25	31	51	52	72
Clerical Staff ..	2F	21	41	43	86
Engine Drivers and Firemen	-	-	1	1	3
Workers, Skilled and Unskilled	578	724	1,002	1,032	1,357
Other (Carters and Messengers)	17	26	25	27	24
TOTAL:	694	857	1,179	1,211	1,587

The next table shows the actual number of persons employed (excluding Working Proprietors) on the pay-day nearest to the 15th of each month for the years 1937-38 and 1938-39.

7. PERSONS EMPLOYED ON PAY-DAY NEAREST TO THE 15TH OF EACH MONTH: AUSTRALIA, 1937-38 AND 1938-39.
(Working Proprietors Excluded)

Month	1937-38			1938-39		
	Males	Females	Total	Males	Females	Total
	No.	No.	No.	No.	No.	No.
July ..	948	481	1,429	980	566	1,546
August ..	939	484	1,423	981	527	1,508
September	945	481	1,426	987	566	1,553
October..	948	488	1,436	955	560	1,515
November	937	498	1,435	978	569	1,547
December	946	504	1,450	980	567	1,547
January..	922	470	1,392	948	546	1,494
February	943	514	1,457	978	560	1,538
March ..	948	516	1,464	982	564	1,546
April ..	952	525	1,477	982	581	1,563
May ..	955	516	1,471	981	588	1,569
June ..	943	520	1,463	977	582	1,559
AVERAGE:	944	500	1,444	974	565	1,539

A classification of the number of employees according to age on or about the 15th June, 1939 is shown in the next table:-

8. PERSONS EMPLOYED CLASSIFIED ACCORDING TO AGE, JUNE, 1939.

Sex	Under 16 years	16 and under 21 years	Adults	Total
	No.	No.	No.	No.
Males	74	159	744	977
Per Cent of Total	8%	16%	76%	100%
Females	75	246	261	582
Per Cent of Total	13%	42%	45%	100%
Persons	149	405	1,005	1,559
Per Cent of Total	10%	26%	64%	100%

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 1937-38 and 1938-39.

9. POWER EMPLOYED TO DRIVE MACHINERY: AUSTRALIA.

Class of Engine	Rated H.P. of Engines			
	Ordinarily in Use		In Reserve or Idle	
	1937-38	1938-39	1937-38	1938-39
Steam - Reciprocating	-	-	-	-
Turbine	-	-	-	-
Internal Combustion -				
Gas	-	-	25	25
Petrol or Other Light Oils ..	6	6	-	-
Heavy Oils.. ..	-	-	-	-
Water	6	6	25	25
Total Prime Movers:				
Motors driven by electricity -				
Purchased	1,001	1,124	65	89
Own Generation	-	-	-	-
Total Electricity:	1,001	1,124	65	89
TOTAL POWER USED(a):	1,007	1,130	90	114

(a) Without Duplication.

Details of the quantities and values of the various items of Power, fuel and light used in Broom and Brush Factories, are shown in the following table:-

10. POWER, FUEL AND LIGHT, ETC. USED: AUSTRALIA, 1938-39.

Particulars	Unit of Quantity	Quantity	Value £
Coal - Black	ton	77	134
Brown	"	-	-
Coke	"	48	75
Wood	"	53	49
Fuel Oil	gallon	1,051	35
Electricity	-	-	4,268
Gas	-	-	937
Other (Charcoal, etc.)	-	-	2
Water used	-	-	598
Lubricating Oil	-	-	173
TOTAL:		Value only	6,271

(a) Value only available.

Particulars of the book values of premises occupied and plant used in Broom and Brush Factories at the 30th June for each of the five years ended 1939 are shown in the next table. In addition, details of the values of additions and replacements made and depreciation allowed during the year 1938-39 are also shown.

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It should be noted that the amounts expended in Additions and Replacements refer to expenditure incurred by existing factories and do not include the cost of erecting and equipping new factories; these latter items, however, are included with the book values shown at 30th June. The amounts shown for Depreciation are those returned by factories. Changes in the number of factories operating and other factors affect comparison from year to year.

11. VALUE OF LAND AND BUILDINGS, PLANT AND MACHINERY: AUSTRALIA, 1938-39.

Particulars		Land and Buildings	Plant and Machinery
		£	£
Additions and Replacements made during year (a)	..	3,013	10,613
Depreciation allowed during year (a)	..	1,479	9,906
Book Value (a) as at 30th June -			
1939	..	231,560	80,508
1938	..	202,277	69,274
1937	..	176,028	67,667
1936	..	152,615	61,149
1935	..	155,689	66,874

(a) See Note above.

The values of imports of Brushware are given in the following table:-

12. IMPORTS OF BRUSHWARE: AUSTRALIA, 1928-29 TO 1938-39.

Year	Brooms, Whisks, Mops, Carpet Sweepers	Hair, Nail and Scrubbing Brushes etc.	Painters' Brushes	Tooth Brushes	Vacuum Cleaners for Household Use	N.E.I.	Total Brush-ware
	£A.	£A.	£A.	£A.	£A.	£A.	£A.
1928-29	35,718	64,376	6,404	62,224	168,621	57,606	394,949
1929-30	35,444	57,774	7,163	47,821	117,617	52,229	318,048
1930-31	10,336	23,699	911	8,893	79,558	18,458	141,855
1931-32	6,767	5,264	350	731	39,956	13,159	66,237
1934-35	20,893	21,510	893	1,791	119,819	28,761	193,667
1935-36	25,060	23,447	1,286	2,639	227,364	31,209	311,005
1936-37	25,928	27,775	5,455	4,448	188,927	31,603	284,136
1937-38	33,771	37,388	8,959	12,206	267,484	40,285	400,093
1938-39	32,997	33,400	4,919	4,974	290,714	35,591	402,595

Particulars of the imports of materials used in the Broom and Brush industry are shown in the following table.

13. BROOM AND BRUSH FACTORIES: IMPORTS OF MATERIALS USED.

Year	Bristles, Horsehair Drafts		Hair, Not Human		Broom Corn Millst and Rice Straw		Bass		Coir	
	Q'ty	Value	Q'ty	Value	Q'ty	Value	Qty	Value	Qty	Value
	cwt.	£A.	cwt.	£A.	Cental	£A.	cwt.	£A.	cwt.	£A.
1928-29	(a)	71,219	2,140	6,318	48	55	2,403	6,995	18,441	10,454
1931-32	1,038	41,617	426	1,165	-	-	2,728	8,969	16,737	4,347
1936-37	1,574	107,844	11,070	41,370	256	190	3,473	8,954	35,764	11,242
1937-38	1,894	142,690	17,062	68,782	2,860	2,863	3,762	10,728	47,012	15,859
1938-39	1,766	94,157	8,651	30,178	-	-	3,141	8,875	42,841	11,245

(a) Not available.

The following table shows the weekly minimum rates of wage and hours of labour operating as at 30th June, 1939 as prescribed by State Industrial Tribunals. Where no rate is shown it indicates that the particular occupation is not specifically provided for in the award or determination.

/13. BROOMS

13. BROOMS AND BRUSHES - STATE AWARDS (CAPITAL CITY)

Minimum Weekly Rates of Wage and Hours of Labour as at 30th June, 1939.

Occupation	New South Wales		Victoria		Queensland		South Australia		Western Australia		Tasmania	
	Hrs	Weekly Wage	Hrs	Weekly Wage	Hrs	Weekly Wage	Hrs	Weekly Wage	Hrs	Weekly Wage	Hrs	Weekly Wage
Brooms -												
Head sorter ..	44	105/-	44	105/-	44	101/-	..	..	..	..	..	..
Second sorter ..	44	92/-	44	95/-	44	88/6	..	..	..	..	..	..
		and 97/-										
Maker or sewer..	44	85/- to 105/-	44	105/-	44	95/-	..	..	..	..	..	..
Cutter off ..	..	..	44	92/6	..	..	..	..	..	..	..	..
Apprentices or Juniors -		(b)										
1st six months..	..	..	44	16/-	44	16/6	..	..	..	..	..	..
2nd " "	..	..	44	16/-	44	19/6	..	..	..	..	..	..
2nd year ..	..	..	44	19/-	44	22/-	..	..	..	..	..	..
3rd " ..	..	..	44	25/-	44	35/6	..	..	..	..	..	..
4th " ..	..	..	44	35/-	44	47/6	..	..	..	..	..	..
5th " ..	..	..	44	45/-	44	62/-	..	..	..	..	..	..
6th " ..	..	..	44	55/-	..	..	..	..	..	..	..	..
Brushes - Males					(a)							
Paint brush maker	44	109/-	48	100/-			48	97/-	..	..	..	..
Hair pan work ..	44	104/6	48	95/-			48	93/-	..	..	..	..
Bass pan work ..	44	104/6	48	95/-			48	93/-	..	..	..	..
Hair dressing and mixing ..	44	104/6	48	95/-			48	93/-	..	..	..	..
Twisted brush maker ..	44	104/6	48	95/-			48	93/-	..	..	..	..
Wire brush maker	44	104/6	48	95/-			48	93/-	..	..	..	..
Bass broom drawer	44	104/6	48	95/-			48	93/-	..	..	..	..
Finishing ..	44	104/6	48	95/-			48	93/-	..	..	..	..
Boring ..	44	104/6	48	95/-			48	93/-	..	..	..	..
Brushes - Females	44	52/6	48	44/-	44	45/-	48	41/6 and 44/6	..	..	..	..
Apprentices or Improvers -												
Males -												
1st year ..	44	19/8	48	15/-	44	15/9	48	19/9	..	..	..	..
2nd " ..	44	29/4	48	20/-	44	25/10	48	24/3	..	..	..	..
3rd " ..	44	44/-	48	25/-	44	35/6	48	30/3	..	..	..	..
4th " ..	44	69/8	48	47/6	44	65/8	48	38/3	..	..	..	..
5th " ..	44	76/5	48	63/4	44	73/10	48	47/9	..	..	..	..
6th " ..	..	..	48	71/3	..	..	48	56/6	..	..	..	..
Females -												
1st year ..	44	22/9 to 36/9	48	15/-	44	13/-	48	18/6	..	..	..	..
2nd " ..	44	38/11 to 46/6	48	20/-	44	18/-	48	23/9	..	..	..	..
3rd " ..	..	..	48	28/-	44	23/6	48	29/9	..	..	..	..
4th " ..	..	..	48	35/6	..	..	48	37/-	..	..	..	..
Mops -												
Males ..	..	..	48	80/-	..	..	48	85/-	..	..	..	..
Females ..	..	..	48	44/-	..	..	..	..	..	..	..	..

(a) Journeymen tinworkers 98/6, 44 hours.

(b) 19/1 at 14 years to 71/4 at 20 years; 44 hour week.