

## 146 Brushes and brooms

This Report on the Brushes and Brooms Industry relates to establishments engaged wholly or mainly in manufacturing brushes and brooms of all materials, painters' and decorators' brushes and painting rollers, toilet, household, artists' and industrial brushes, household and industrial mops, dressed bristles, hair and fibres.

This industry corresponds to minimum list heading 493 in the Standard Industrial Classification (Revised 1968) which has been used for the first time as a basis of classification in the 1968 Census. The definition of this industry however is unchanged from the last detailed Census of Production in which it was reported (Part 121).

In this industry, where small establishments account for a relatively large proportion of employment and output, establishments employing fewer than twenty-five persons were asked to complete a simplified version of the full census form.

In interpreting the data in the tables it is essential to bear in mind the notes and definitions which appear on pages (i) to (iv).

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TABLE 1 Industry summary, 1963 and 1968  
United Kingdom

	Unit	All establishments (a)		Small establishments (b)		
		1963	1968	1963	1968	
Number of enterprises	No.	297	226	235	174	
Number of establishments	"	330	250	249	175	
Gross output	£'000	27,407	30,259	6,587	4,675	
Net output	"	11,543	13,907	2,105	1,879	
Net output per head	£	964	1,297	894	1,147	
Sales and work done	{ goods produced and work done (c)	£'000	24,173	26,935	5,189	3,693
	{ merchanted goods and canteen takings	"	3,290	3,087	1,385	953
Purchases	{ materials for use in production and packaging, and fuel	"	13,238	13,729	4,395	2,008
	{ goods for merchenting and canteen purchases	"	2,297	2,496		
Payments to other organisations	{ for work done on materials given out for transport	"	38	32	11	5
	{ by road	"	337	294	85	36
	{ by rail and other means excluding postal services	"				
Stocks and work in progress						
Total stocks and work in progress	{ change during year	"	- 10	+ 592	+ 22	+ 39
	{ at end of year	"	7,234	8,167	1,263	841
Goods on hand for sale	{ change during year	"	- 52	+ 125	+ 13	+ 32
	{ at end of year	"	1,989	2,391	400	233
Work in progress	{ change during year	"	- 4	+ 112	+ 1	- 4
	{ at end of year	"	975	1,210	70	38
Materials, stores and fuel	{ change during year	"	+ 46	+ 356	+ 8	+ 11
	{ at end of year	"	4,270	4,566	794	570
Number employed on average during the year	{ total, including working proprietors	Th.	12.0	10.7	2.4	1.6
	{ operatives	"	9.2	8.3	1.6	1.2
	{ other employees (d)	"	2.5	2.2	0.4	0.3
Wages and salaries	{ of operatives	£'000	4,167	5,434	738	747
	{ of other employees (d)	"	2,161	2,571	383	278
Capital expenditure (e)						
Total	"	570	998	87	108	
New building work	"	70	117	15	9	
Land and existing buildings (f)	"	3	19	11	5	
Plant and machinery (f)	"	353	721	17	63	
Vehicles (f)	"	145	180	43	41	

- (a) For 1968 estimates are based on returns covering 92 per cent. of the employment shown. For 1963 the comparable figure was 91 per cent.
- (b) For 1968 estimates are based on returns covering 71 per cent. of the employment shown. For 1963 the corresponding figure was 59 per cent.
- (c) Including services rendered to other organisations (amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered).
- (d) Administrative, technical and clerical employees.
- (e) Excluding expenditure for establishments not yet in production.
- (f) Acquisitions less disposals.

TABLE 2 Analysis by size of establishment within the industry, 1968

(i) Output and employment

All establishments: United Kingdom

Number employed on average during the year by the establishment (a)	Estab-lish-ments	Enter-prises (b)	Total number employed on average during the year (a)	Gross output	Net output	Net output per head
				£'000	£'000	£
1-5	62	58	184	4,675(c)	1,879(c)	1,147(c)
6-10	47	46	354			
11-24	66	64	1,100			
25-49	17	17	614	1,691	682	1,111
50-99	25	22	1,759	5,908	2,472	1,405
100-199	13	10	1,682	4,645	2,132	1,268
200-299	6	6	1,494	4,261	1,964	1,314
300 and over	6	4	3,158	8,009	4,274	1,353
Unsatisfactory returns	8	8	381	1,072(d)	504(d)	1,323(d)
Total	250	226	10,726	30,259	13,907	1,297

(ii) Employees, wages and salaries

All establishments: United Kingdom

Number employed on average during the year by the establishment (a)	Employees		Wages and salaries		Wages and salaries per head	
	Oper-atives	Others (e)	Oper-atives	Others (e)	Oper-atives	Others (e)
	Number	Number	£'000	£'000	£	£
1-5	1,178(c)	297(c)	747(c)	278(c)	634(c)	937(c)
6-10						
11-24						
25-49	508	94	311	106	612	1,126
50-99	1,471	267	935	339	636	1,268
100-199	1,362	313	762	364	559	1,162
200-299	1,198	294	803	321	670	1,091
300 and over	2,302	848	1,680	1,068	730	1,260
Unsatisfactory returns	299(d)	79(d)	196(d)	96(d)	656(d)	1,210(d)
Total	8,318	2,192	5,434	2,571	653	1,173

(a) Including working proprietors.

(b) The sum of the figures for the size groups exceeds the total for the industry to the extent that enterprises made returns for establishments in more than one size group.

(c) Estimates for all small establishments based on returns received.

(d) Estimates for unsatisfactory returns in respect of larger establishments based on returns received.

(e) Administrative, technical and clerical employees.

TABLE 3 Percentage analysis of employees, by age and sex, 1969 (a)

All establishments: United Kingdom

Ages	Males	Females	All employees
	Per cent.	Per cent.	Per cent.
Under 18	3	5	8
18 and over	45	47	92
All ages	48	52	100

Source: Department of Employment

(a) The percentages relate to the numbers employed (excluding working proprietors) at June 1969, the earliest date for which the information is available on the basis of the Standard Industrial Classification, (Revised 1968).

## Footnotes to Table 4

(a) Some establishments employing fewer than 25 persons were included in returns for larger establishments. These amounted to 3 establishments in 1968 and 6 in 1963.

(b) Including services rendered to other organisations (amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered).

(c) This is the ratio of total sales of principal products by the industry to total sales of goods produced and work done.

(d) Administrative, technical and clerical employees.

(e) Excluding expenditure for establishments not yet in production.

(f) Acquisitions less disposals.

TABLE 4 Analysis of larger establishments, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom (a)

	Unit	1963	1968
Number of enterprises	No.	66	50
Number of establishments	"	85	70
Gross output	£'000	20,836	24,605
Net output	"	9,424	11,568
Net output per head	£	980	1,323
Sales and work done	{ goods produced and work done (b)	£'000	18,979
	{ merchanted goods and canteen takings	"	1,926
Index of specialisation (c)	Per cent.	91	90
Purchases	{ materials for processing and packaging, and fuel	£'000	9,518
	{ goods for merchenting and canteen purchases	"	1,651
Payments to other organisations	{ for work done on materials given out	"	28
	{ for transport	"	26
	{ by road	"	248
{ by rail and other means excluding postal services	"	252	
Stocks and work in progress			133
Goods on hand for sale	{ change during year	"	- 64
	{ at end of year	"	+ 90
Work in progress (e)	{ change during year	"	1,588
	{ at end of year	"	2,073
Materials, stores and fuel	{ change during year	"	- 5
	{ at end of year	"	+ 110
Number employed on average during the year	{ total, including working proprietors	No.	901
	{ operatives	"	1,124
Wages and salaries	{ change during year	"	+ 37
	{ at end of year	"	+ 331
Wages and salaries per head	{ of operatives	£'000	3,472
	{ of other employees (d)	"	3,842
Capital expenditure (e)	{ total, including working proprietors	No.	9,616
	{ operatives	"	8,747
	{ other employees (d)	"	6,872
New building work	{ of operatives	£'000	3,423
	{ of other employees (d)	"	4,507
Wages and salaries per head	{ operatives	£	1,775
	{ other employees (d)	"	2,208
Land and existing buildings	{ acquisitions	£'000	455
	{ disposals	"	871
Plant and machinery	{ acquisitions	"	1,210
	{ disposals	"	871
Vehicles	{ acquisitions	"	13
	{ disposals	"	27
			86

For notes to this table - see page 146/5.

TABLE 5(i) Estimates of total sales of principal products of the industry, 1963 and 1968

All establishments: United Kingdom (a)

	All establishments (b)		Small establishments in the industry (c)	
	1963	1968	1963	1968
	£'000	£'000	£'000	£'000
Dressed bristles, hair and fibres for brushmaking	1,910	1,379	1,169	443
Paint, paste, distemper, whitewash and similar brushes and painting rollers	5,901	7,738	981	764
Toilet brushes (including wire filled)	3,967	4,443	163	152
All other brushes (including those of wire) including household brushes, brooms and brushes for use as part of a machine				
Hand made (including artists' brushes and brushes of fine hair)	2,275	2,048	825	489
Machine stapled and other machine made	6,840	7,716	714	1,047
Mops, domestic or household	2,855	2,629	951	566
Other products, including industrial polishing mops, buffs, bobs, etc but excluding circular brushes; waste products and work done (d)	1,633	2,068	256	162
Total	25,382	28,021	5,060	3,624

(a) Including estimates for establishments not making satisfactory returns.

(b) Including sales of principal products of the industry by larger establishments, but not by small establishments classified to other industries. For a detailed analysis of sales by larger establishments see Table 5(ii).

(c) Excluding small establishments included in returns made by larger establishments.

(d) Including any sales by small establishments of goods other than principal products of the industry but excluding merchanted goods, canteen takings and the value of services rendered to other organisations.

TABLE 5(ii) Sales of principal products of the industry by larger establishments, including sales by establishments classified to other industries, 1963 and 1968

Establishments employing 25 or more persons:  
Analysis of returns received, United Kingdom

	1963		1968			
	Quantity	Value	Quantity	Value	Enter-prises	Entries
		£'000		£'000	Number	Number
Dressed bristles, hair and fibres for brushmaking	..	736	..	897	8	9
Paint, paste, distemper, whitewash and similar brushes						
Overall width of filling at mouth of ferrule or other binding	Thousands		Thousands			
Not exceeding ½ inch	} 22,478	3,247	{ 3,565	223	} 15	17
Exceeding ½ inch, but not exceeding 3 inches			..	69		
Exceeding 3 inches	3,237	1,484	..	21,945	4,054	22
Painting rollers	..	156	..	2,151	21	24
Total paint, paste, distemper, whitewash and similar brushes and rollers	{ 25,716	4,731	{ 25,510	4,277	..	..
	..	156	..	2,410		
Toilet brushes (including wire filled)						
Tooth and dental plate brushes	42,378	1,841	{ 27,361	1,121	} 16	17
	..	..	..	909		
Hair brushes	{ 4,915	518	{ 9,482	1,186	} 19	19
	..	429	..	147		
Shaving brushes			{ 503	235	} *	*
			..	..		
Other toilet brushes (including nail and cosmetic brushes)	{ 27,144	995	{ 15,403	481	} 26	27
	..	..	..	75		
Total toilet brushes (including wire filled)	{ 74,437	3,355	{ 52,749	3,023	..	..
	..	429	..	1,131		
Artists' brushes and brushes of fine hair	..	840	..	1,214	8	9
Brushes (including wire) for use as part of a machine (a)	{ 1,992	482	{ ..	1,360	18	19
	..	1,104	..	..		
Wire brushes not for use as part of a machine		(b)	{ 2,373	283	} 15	15
			..	92		
Other brushes (including household), and brooms						
Hand made	{ 1,200	422	{ 523	253	} 19	19
	..	183	..	55		
Machine stapled and other machine made						
Banister and hearth brushes	6,139	502	5,242	481	24	24
Scrubbing and laundry brushes	6,986	466	3,528	320	21	21
Clothes brushes			..	160	20	20
Shoe brushes	{ 18,996	2,159	{ ..	212	18	18
	..	111	..	..		
Other brushes not elsewhere specified (including bottle brushes)			{ 10,750	1,556	} 28	30
			..	285		
Brooms	8,694	1,259	..	1,652	24	24
Total machine stapled and other machine made brushes and brooms	{ 40,814	4,386	{ 19,520	2,356	..	..
	..	111	..	2,309		

TABLE 5(ii) (continued)

	1963		1968			
	Quantity	Value	Quantity	Value	Enter-prises	Entries
	Thousands	£'000	Thousands	£'000	Number	Number
Mops, domestic or household	{ 4,198	688	{ 2,780	1,047	} 8	9
	..	1,211	..	969		
Industrial polishing mops (buffs, bobs, etc) excluding circular brushes	1,936	1,086	..	1,571	6	6
Other products	..	222	..	253	11	12
Waste products and work done	..	60	..	19	14	15
Total		20,201		23,520	..	..
Sales in other industries (see Table 6)		2,984		3,371	..	..
Principal products of this industry sold by establishments in the industry		17,217		20,149	50	59(c)

(a) For 1963, described as 'Brushes for use as part of a machine'.

(b) Not recorded separately for 1963.

(c) This figure represents the total number of returns made for larger establishments in this industry which is less than the total number of establishments shown in Table 4 on account of combined returns covering more than one establishment.

TABLE 6 Sales of principal products of the industry by larger establishments classified to other industries, 1963 and 1968

Establishments employing 25 or more persons:  
Analysis of returns received, United Kingdom

	1963	1968		
	Value	Value	Entries	Principal industries in which produced (a)
	£'000	£'000	Number	
Toilet brushes (including wire filled)				
Tooth and dental plate brushes	498	768	9	30,31,149
Hair brushes	251	147	7	149
Other toilet brushes (including nail and cosmetic brushes)	97	109	10	149
Artists' brushes and brushes of fine hair and painting rollers	520	745	5	32,138
All other brushes, hand made, machine stapled and other machine made (including paint, paste, distemper, whitewash and similar brushes; brushes for use as part of a machine; wire and household brushes); brooms; dressed bristles, hair and fibre for brush making	328	270	6	82,91,97,136
Mops, domestic or household; industrial polishing mops (buffs, bobs, etc) excluding circular brushes	1,291	1,331	6	96,97,101,109
Total	2,984	3,371	..	

(a) The references given are to the list of industries at the front of this report.

TABLE 7 Sales of other than principal products by larger establishments in the industry, 1963 and 1968

Establishments employing 25 or more persons:  
Analysis of returns received, United Kingdom

	1963	1968
	Value £'000	Value £'000
Other goods and services rendered to other organisations (a)	1,762	2,189
Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored)	1,884	1,984
Canteen takings	41	83
<b>Total</b>	<b>3,688</b>	<b>4,256</b>

(a) Services rendered are defined as amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services.

TABLE 8 Production of certain principal products of the industry by larger establishments, 1963 and 1968

This table is not applicable to this industry.

TABLE 9 Purchases by larger establishments of selected principal products of the industry, 1968

This table is not applicable to this industry.

TABLE 10 Purchases by larger establishments in the industry, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

	1963		1968	
	Quantity	Cost £'000	Quantity	Cost £'000
<b>Materials for use in production</b>				
Timber				
Softwood, sawn or planed, but not further prepared or manufactured		42	1.4	141
	Th. cu. ft.		Th. cu. ft.	
Hardwood, sawn or planed, but not further prepared or manufactured	422	235	190	197
	..	94	..	161
Parts of brushes, brooms and mops				
Of wood (eg boards, stocks and handles)	..	701	..	752
Of metal (eg ferrules, bands, etc)	..	383	..	577
Of plastic (excluding monofilaments and foams)	..	167	..	403
Tinplate and blackplate (a)	..	11	..	12
	Th. gal.		Th. gal.	
Paint and varnish (including lacquers and stains)	97.5	106	90	95
	Th. cwt.		..	14
			Th. cwt.	
Synthetic resins and plastics and materials (excluding leathercloth and reinforced plastics) (b)	58.3	548	105	874
Bristles, dressed or otherwise	..	2,544	..	2,756
Animal hair, dressed or otherwise	..	346	..	356
Vegetable fibres, dressed or otherwise	..	937	..	733
Plastic monofilaments (eg nylon)	..	440	..	618
Foams of cellulose and polyurethane	..	33(c)	..	28
			Th. lb.	
Cotton yarn (eg mop yarn)	..	163(c)	858	132
			..	90
	Th. sq. yds.		Th. sq. yds.	
Woven piece goods (other than narrow fabrics) wholly or mainly of cotton	2,536	411	2,818	356
Replacement parts for firms' own machinery, plant and vehicles, and accessories and consumable tools bought as replacement				
Tyres and other spare parts for firms' own road goods vehicles	..	180	..	28
Other	..	..	..	172
All other materials for use in production	..	1,302	..	1,609
<b>Packaging materials</b>				
Paper and board				
Boxes, cartons, drums and canisters (with or without metal ends) of paper and cardboard	..	451	..	516
Fibreboard packing cases	..	..	..	44
Wrapping and packing paper (including paper coated with plastics and any laminates incorporating paper but not metal)	..	163	..	37
All other packaging materials	..	..	..	154
<b>Fuel and electricity (d)</b>				
	Th. tons		Th. tons	
Coal	5.1	36	3.1	28
Coke (including screenings) and manufactured fuel	1.6	14	0.4	5
	..	2	..	3

Continued on next page.

TABLE 10 (continued)

	1963		1968	
	Quantity	Cost	Quantity	Cost
Fuel and electricity (d) (continued)	Th.gal.	£'000	Th.gal.	£'000
Derv fuel and motor spirit for use in road vehicles	163	35	270	71
	..	14	..	8
Other liquid fuels (including creosote/pitch mixtures, etc, and liquefied petroleum gases)	547	26	660	33
			..	24(e)
Gas	Th.therms		Th.therms	
	203	17	147	14
	..	5	..	18
Electricity	Th.kWh		Th.kWh	
	8,977	79	14,378	130
	..	34	..	74
Total cost of materials and fuel		9,518		11,260
Goods purchased for merchanting		1,606		1,628
Canteen purchases		45		72
Total cost of purchases		11,171		12,960

(a) Terneplate was specifically included for 1963.

(b) For 1963, 'plastic monofilaments and foam' were specifically excluded.

(c) Revised figures.

(d) Owing to risk of disclosure of information relating to individual firms, total quantities of electricity generated in firms' own establishments in 1963 and 1968 cannot be given.

(e) For 1968, may include a small amount of fuels not covered by specific headings.

TABLE 11 Transport costs and employment of larger establishments, 1963 and 1968

Establishments employing 25 or more persons:  
Analysis of returns received, United Kingdom

	Unit	1963	1968
Average number mainly employed on transport	No.	125	127
Transport costs			
Wages and salaries	£'000	92	135
Derv fuel and motor spirit	"	49	79
Tyres and other spare parts for road goods vehicles	"	..	28
Payments to other organisations for transport	{ by road by rail and other means excluding postal services	{ 252	{ 248
			133
Costs of operating road goods vehicles			
Insurance	"	10	13
Vehicle licences	"	8	18
Depreciation	"	42	63
Payments to other organisations for repairs and maintenance	"	25	61
Total	"	478(a)	779

(a) Excluding tyres and other spare parts for road goods vehicles, not collected separately for 1963.

TABLE 12 Payments for certain services, etc by larger establishments, 1963 and 1968 (a)

Establishments employing 25 or more persons:  
Analysis of returns received, United Kingdom

	Amounts payable	
	1963	1968
Repairs and maintenance to	£'000	£'000
Buildings	28	53
Road goods vehicles	25	61
Plant, machinery and other capital equipment	40	96
Insurance, licensing and depreciation of road goods vehicles (b)	60	94
Rates, excluding water rates	167	235
Hire of plant and machinery	7	14
Postage, telephone, telegrams, cables and telex (c)	83	123
Total	410	677

(a) No deduction is made for these payments to arrive at the figures of net output given in this report.

(b) For details see Table 11.

(c) Excluding telex for 1963.

TABLE 13 Percentage analysis of twelve-month periods covered by returns from larger establishments, 1968

Establishments employing 25 or more persons:  
Analysis of returns received, United Kingdom

Year ended	Percentage of total returns received	Percentage of total number employed
1968	Per cent.	Per cent.
April (a)	0.0	0.0
May	1.7	0.7
June	1.7	7.3
July	5.1	5.2
August	5.1	1.4
September	6.8	2.7
October	1.7	0.7
November	1.7	0.8
December	45.8	57.3
1969		
January	0.0	0.0
February	1.7	0.4
March	28.8	23.7
April (b)	0.0	0.0
	100	100

(a) From 6 April.

(b) To 5 April.