

BOARD OF TRADE

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*The Report on the
Census of Production
for 1954*

Volume 11: Industry C

BRUSHES AND BROOMS



*Presented by the Board of Trade to Parliament in pursuance of the
Statistics of Trade Act, 1947 (10 & 11 Geo. 6 Ch. 39, Sec. 7)*

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The Report on the Census of Production for 1954

VOLUME 11 INDUSTRY C

BRUSHES AND BROOMS

THIS REPORT on the Brushes and Brooms Industry, relates to establishments engaged wholly or mainly in the manufacture of brushes and brooms, in preparing animal hair for brushmaking, and in dressing bristles and fibres for all purposes.

This industry corresponds to minimum list heading 192 in the Standard Industrial Classification.

Particulars available in respect of H.M. prisons are given separately in a note to Table 2.

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IMPORTANT NOTES and definitions appear on the next page. In interpreting the data in the tables, it is essential to bear these in mind.

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The following notes describe terms in general use in the tables of the report. More detailed explanations of the terms used and a description of the scope and method of taking the census are given in the separate booklet entitled 'The Report on the Census of Production for 1954 - Introductory Notes' (price 1s. 6d. net).

Industrial Classification: Establishments are classified to industries according to the nature of their output and, as far as possible, in conformity with the Standard Industrial Classification. Certain products are identified as the principal products of individual industries, the principal products for a given industry being of a similar nature or commonly associated in production. The principle of classification normally followed is that an establishment is classified to an industry if its output of the principal products of that industry accounted for a greater proportion of the value of its output than did its output of the principal products of any other industry.

Specialist producers normally comprise those establishments 50 per cent. or more of whose total output by value is accounted for by the characteristic products of the specialist group.

Intermediate products: For some industries figures are given showing the total quantities made during the year of intermediate products, i.e., products which may be further processed in the establishments in which they are produced.

Larger establishments: The information given in the report relates mainly to 'larger establishments', i.e., establishments of firms employing on the average more than 10 persons. In most cases an establishment comprises the whole of the premises under the same ownership or management at a particular address (e.g., a mine or factory). Offices, warehouses, laboratories and other ancillary places of business situated apart from the producing works are not regarded as separate establishments and are included in the return for the works.

Small firms are those employing on the average 10 or fewer persons.

The estimates for the industry as a whole given in Table 1 are normally obtained by increasing the other items shown in the same proportion as total employment.

Gross output (production) is the total value of goods made and other work done during the year; it is obtained by adjusting the value of sales and work done during the year for changes in the value of stocks of products on hand for sale and work in progress.

Net output is the amount left after deducting from the value of gross output the aggregate of the cost of materials and fuel used, the amount paid for work given out, and, for 1951 and 1954, any transport payments made. This represents the value added to materials by the process of production, and constitutes the fund from which wages, salaries, rents, rates and taxes, advertising and other selling expenses and all other similar charges have to be met, as well as depreciation and profits.

Sales means sales during the year of goods made in the establishment covered by the return or made on commission for it, whether produced in the year or not. The value of sales is the net selling value, i.e., the amount charged to customers, whether on an ex-works or delivered basis, and net of any trade discounts, agents' commissions, allowances for returnable cases, purchase tax, etc. For goods charged on a delivered basis to customers overseas, firms were required to give the f.o.b. value.

Materials and fuel: The total cost of materials and fuel purchased includes all purchases during the year of materials for use in production, and of fuel (includ-

ing oil, gas and electricity) for all purposes; packing materials, including the full cost of returnable cases when first purchased; workshop and office materials; water charges; materials for repairs to buildings, plant and vehicles when carried out by firms' own work-people included in their returns; consumable tools; and parts for machinery purchased as replacements. Purchases of goods for merchandising are excluded. The cost of materials and fuel used, given in Table 2, is obtained by adjusting purchases for changes during the year in the value of stocks.

Stocks: Firms were required to give stocks of materials and fuel, products on hand for sale, and work in progress, at income tax values.

Customs and Excise Duty paid on materials purchased is normally included in the cost of materials. Finished goods are similarly valued as they were sold, duty-paid or duty-free. The net amount of any duty paid is deducted in arriving at net output.

Employment: Total employment includes working proprietors, administrative, technical and clerical employees, and operatives, but excludes outworkers, canteen employees and persons engaged in merchandising or any other activity not covered by a firm's return, who are shown separately as excluded employees. Employees are persons on the pay-roll (i.e., persons whose National Insurance cards were held by employers), whether employed full-time or part-time.

Working proprietors are proprietors of businesses other than limited companies, together with members of their families who worked in the business without receiving fixed wages or salaries. Any persons working less than half the normal hours are excluded. For Northern Ireland directors of limited companies (other than those paid by fee only) are also included.

Administrative, technical and clerical employees include directors, other than those paid by fee only (except in Northern Ireland); managers, superintendents and works foremen; research, experimental, development, technical and design employees (other than operatives); draughtsmen and tracers; travellers; and office (including works office) employees.

Operatives include all other classes of employees, i.e., broadly speaking, all manual workers.

Outworkers are persons employed by the firm who work on materials supplied by the firm in their own homes.

Wages and salaries include all overtime payments, bonuses and commissions without any deductions for income tax, insurances, contributory pensions etc. They exclude payments to working proprietors.

Capital expenditure includes expenditure on new building work, and on plant, machinery and vehicles, charged to capital account during the year, including any transport and installation costs involved. It includes expenditure in respect of establishments in Great Britain which had not begun production before the end of the year (which has not previously been included in the Census of Production reports for individual industries).

Symbols used:

- .. for not available
- for nil or negligible (less than half the final digit shown).

Where figures are rounded, e.g., given to the nearest £ thousand, there may be apparent slight discrepancies between the sums of constituent items and the totals shown. In some cases, figures have been combined with others of a similar nature where publication of separate details might disclose information relating to an individual undertaking.

TABLE 1

Industry summary: Estimates for the industry as a whole

	United Kingdom			Scotland 1954	Wales 1954
	1948	1951	1954		
	£ million	£ million	£ million	£ million	£ million
Gross output (production)	17.5	21.4	19.0	0.18	0.62
Net output	7.9	8.4	8.1	0.10	0.31
Total stocks and work in progress					
At beginning of year	4.1	5.0	4.2	0.09	0.17
Change during year	+ 0.8	+ 1.8	+ 0.5	-	+ 0.02
Capital expenditure less disposals (a)	0.5	0.4	0.4	-	0.03
Wages and salaries	3.9	4.4	4.7	0.07	0.20
Total employment (including working proprietors)	Thousands	Thousands	Thousands	Thousands	Thousands
	16.0	15.7	14.5	0.22	0.61

(a) Capital expenditure on new building work, plant, machinery and vehicles, (including (except in 1948) that incurred in Great Britain for establishments not yet in production), less amounts received for plant, machinery and vehicles disposed of.

TABLE 2

Summary of returns received

	Unit	Great Britain 1948	United Kingdom	
			1951	1954
FIRMS EMPLOYING ON AVERAGE MORE THAN 10 PERSONS				
Number of establishments	No.	244	219	194
Total value of sales and work done	£'000	15,329	18,613	16,433
Products on hand for sale	"	1,052	1,516	1,409
and work in progress	"	410	408	166
Gross output (production) (a)	"	15,647	19,021	16,599
Purchases of materials and fuel	"	8,828	12,446	9,485
Stocks of materials and fuel	"	2,594	2,937	2,285
change during year	"	+ 326	+ 1,152	+ 310
Cost of materials and fuel used	"	8,502	11,295	9,175
Payment for work done on materials given out	"	65	27	46
Payment for transport (b)	"	92	206	244
Net output	"	7,081	7,493	7,134
Average number of employees	"	12,333	11,773	10,557
operatives	"	1,913(c)	2,145	2,111
others	"	14,319	13,976	12,710
Total employment (d)	"	495	536	561
Net output per person employed (d)	£			
Wages and salaries	£'000	2,601	2,822	2,931
of operatives	"	855	1,064	1,190
of others	"			
Capital expenditure				
New building work (e)	"	93	110	135
Plant and machinery	"	312	253	222
acquisitions (e)	"	17	18	27
disposals	"	45	65	88
Vehicles	"	11	18	26
acquisitions (e)	"			
disposals	"			
FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS				
Number of returns	No.	238	265(f)	277
Total employment, including working proprietors	"	1,355	1,537(f)	1,535

(a) For the year 1948 gross output excludes payments for transport services outwards on finished goods sold. For subsequent years gross output includes payments to other firms and undertakings and to firms' own separate transport organisations for transport services.

(b) Payments to other firms and undertakings and to firms' own separate transport organisations. For the year 1948 payments cover only transport outwards of finished goods sold. For subsequent years they cover payments for transport of both finished goods sold and materials and fuel purchased.

(c) Number in week ended September 25, 1948.

(d) Excluding outworkers and including working proprietors.

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

(f) Excluding Northern Ireland. No information about small firms was collected in Northern Ireland for 1951.

Note - Particulars, excluded from the tables in this report, in respect of H.M. prisons are as follows:-

	1954	1951	1948
Number of establishments	3	1	1
Gross output (production)	£'000	£'000	£'000
Cost of materials used	59	22	11
Net output	53	20	9
	6	2	2

Details of salaries and wages and of persons employed are not available.

BRUSHES AND BROOMS

Analysis by size, 1954

Larger establishments in the United Kingdom

TABLE 3

Average number employed (a)	Estab-lish-ments	Gross output	Net output	Employees		Wages and salaries		Capital expenditure (b)	Net output per person employed (a)
				Operatives	Others	Operatives	Others		
	Number	£'000	£'000	Number	Number	£'000	£'000	£'000	£
11 - 24	71	1,768	706	1,024	194	292	107	40	572
25 - 49	58	2,055	887	1,668	271	435	146	44	455
50 - 99	30	2,325	984	1,663	329	425	192	52	491
100 - 199	22	3,663	1,412	2,470	351	662	177	118	500
200 - 299	6	2,175	1,000	1,241	335	384	177	40	634
300 - 399	3	1,696	728	833	228	202	109	28	686
400 - 749	4	2,918	1,418	1,658	403	530	282	124	688
Total	194	16,599	7,134	10,557	2,111	2,931	1,190	445	561

(a) Excluding outworkers and including working proprietors.

(b) Capital expenditure on new building work and on acquisition of plant, machinery and vehicles, excluding expenditure for establishments not yet in production.

Analysis according to specialisation within the industry, 1954

Larger establishments in the United Kingdom

TABLE 4

	Unit	Dressed bristles, hair and fibre	Paint, paste, distemper and similar brushes	Toilet brushes (except wire filled)	Remainder of the industry	Total
Number of establishments	No.	14	35	25	120	194
Total value of sales and work done	£'000	1,196	3,861	3,110	8,266	16,433
Sales of characteristic products	"	1,118	3,096	2,675	7,899	14,798
Products on hand for sale	"	75	461	291	582	1,409
and work in progress	"	6	105	46	21	166
Gross output (production)	"	1,191	3,966	3,156	8,287	16,599
Purchases of materials and fuel	"	889	2,480	1,655	4,462	9,485
Stocks of materials	"	134	543	348	1,260	2,285
and fuel	"	11	240	22	59	310
Cost of materials and fuel used	"	900	2,240	1,632	4,403	9,175
Payment for work done on materials given out	"	32	38	30	157	244
Payment for transport	"	259	1,688	1,494	3,694	7,134
Net output	"	457	2,260	2,026	5,814	10,557
Average number of employees	No.	49	587	378	1,097	2,111
Total employment (a)	"	510	2,853	2,408	6,939	12,710
Net output per person employed (a)	£	507	592	621	532	561
Wages and salaries	£'000	155	672	553	1,552	2,931
Capital expenditure	"	34	339	245	572	1,190
New building work (b)	"	3	17	68	46	135
Plant and machinery	"	8	38	103	73	222
disposals	"	-	9	16	2	27
Vehicles	"	6	19	15	48	88
disposals	"	2	4	2	18	26

(a) Excluding outworkers and including working proprietors.

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

BRUSHES AND BROOMS

Sales of the principal products of the industry, including sales of these products by establishments classified to other industries

Larger establishments in the United Kingdom

TABLE 5

	1951		1954		
	Quantity	Value	Quantity	Value	Entries
	Th.lb.	£'000	Th.lb.	£'000	Number
Bristles, hair and fibres, dressed					
For brushmaking					
Dressed bristles	78.1	132	58.5	97	11
			..	23	
Prepared animal hair	Th.cwt. 6.2	673	Th.cwt. 6.9	569	16
Dressed fibres	..	151	..	750	16
Unclassified (and mixed) bristles, hair and fibres dressed	77.5	822	78.5	750	16
	15.3	116	..	29	..
Total bristles and fibres, dressed, and hair prepared for brushmaking		1,895		1,467	..
Brushes, brooms, etc., excluding all brushes filled with wire (a)	Th.doz.		Th.doz.		
Artists' brushes and brushes of fine hair	1,594	609	1,498	709	17
	..	96
Paint, paste, distemper, whitewash and similar brushes					
Overall width of filling at mouth of ferrule or other binding					
Not exceeding 3 inches	1,889	3,071	1,638	2,343	58
Exceeding 3 inches	283	1,877	328	1,344	56
Unclassified	41	191	34	162	..
Brushes for use as part of a machine	270	728	258	557	74
	..	136	..	68	
Toilet brushes					
Tooth and dental plate brushes					
Filled with synthetic fibre	2,366	976	2,419	877	13
Other	637	391	431	301	10
Shaving brushes	192	390	187	324	18
Nail brushes	479	276	589	313	29
Hair brushes	376	853	424	644	31
			..	111	
Other toilet brushes, except shoe brushes	818	297	969	636	36
Brooms					
Machine stapled and other machine made	755	1,123	669	962	59
Hand made	197	708	154	508	81
			..	53	
Banister and hearth brushes					
Machine stapled and other machine made	396	303	446	361	53
Hand made	142	321	117	250	79
			..	34	
Scrubbing and laundry brushes	973	569	841	514	60
Painting rollers	-	-	24	119	16
			..	103	

BRUSHES AND BROOMS

Sales of the principal products of the industry, including sales of these products by establishments classified to other industries

Larger establishments in the United Kingdom

TABLE 5 (contd.)

	1951		1954		Entries Number
	Quantity Th.doz.	Value £'000	Quantity Th.doz.	Value £'000	
Brushes, brooms, etc., excluding all brushes filled with wire (a) (contd.)					
Other brushes, including household types					
Machine stapled and other machine made	1,240	1,009	1,158	1,186	68
Hand made	202	343	84	139	65
..	..	69	..	79	
Mops, other than for artists					
Mops used in washing up	113	29	242	100	15
Other	425	571	338	421	20
..	80	
Industrial polishing mops (buffs, bobs, etc.) excluding circular brushes	193	1,185	125	751	12
..	..	372	..	364	
Waste products	..	21	..	11	33
Work done for the trade or on commission (b)					
Dressing of bristles, hair and fibre		5		1	9
Other		84		126	22
Total		18,690		16,167	..
Sales in other industries (s.e. Table 6)		1,239		1,125	..
Principal products of this industry sold by establishments in the industry		17,452		15,042	176

(a) For brushes filled with wire see the Wire and Wire Manufactures Industry (Volume 5, Industry D).
(b) Amount charged.

Sales of principal products of the industry by establishments classified to other industries

Larger establishments in the United Kingdom

TABLE 6

	1954			Principal industries in which produced (a)
	Quantity	Value	Entries	
Bristles, hair and fibres dressed	Th.cwt.	£'000	Number	
For brushmaking				
Prepared animal hair and dressed bristles and fibres	2.0	194	6	6/C, 7/C
..	..	29	..	
Brushes, brooms, etc., excluding all brushes filled with wire	Th.doz.			
Artists' brushes and brushes of fine hair	692	373	7	2/I
All other types of brushes and brooms, including painting rollers	30	31	19	10/C, 5/E, 2/F, 2/K
..	..	288	..	
Mops, except artists' and those used in washing up; and industrial polishing mops (buffs, bobs, etc.) excluding circular brushes	10	23	6	5/E, 6/C, 6/O
..	..	187	..	
Total		1,125	..	

(a) The volume number and industry references given are to the industries shown in the list at the back of this report.

BRUSHES AND BROOMS

Sales in the industry of other than principal products
Larger establishments in the United Kingdom

TABLE 7

	1954	
	Quantity Th.doz.	Value £'000
Wire brushes		
For use as part of a machine	87	296
Other sorts		
Toilet	7	5
..	..	3
Other	156	96
Parts of brushes and brooms, made of wood	..	41
Polishes	Th.cwt. 25.8	248
..	..	100
Prepared animal hair, other than for brushmaking	0.5	46
Coir manufactures	..	31
Baskets (manufactured wholly or partly of willow, cane or wicker)	..	47
Toilet requisites	..	23
Toys	..	21
Other goods	..	401
Work done (a)	..	31
Total		1,391

(a) Amount charged.

TABLE 8 - Total make of intermediate products

Larger establishments in the United Kingdom

This table is not applicable to the industry.

Purchases of materials and fuel, 1954

Larger establishments in the United Kingdom

TABLE 9

	Quantity	Cost
		£'000
Materials		
Parts of brushes and brooms (e.g., boards, stocks and handles)		
Of wood	..	750
Of plastics	..	127
Timber (excluding packing materials)	Th.cu.ft. 899.2	336
..	..	59
Bristles dressed or otherwise	Th.lb. 1,952.2	2,013
Horse hair dressed and other	Th.cwt. 9.1	560
..	..	112
Animal hair (other than bristles and horse hair)	0.9	124
..	..	85
Vegetable fibres dressed for brush making, and other	185.3	1,257
Synthetic fibres (e.g., nylon)	4.0	385
Plastics materials	..	43
Synthetic resins and moulding powders	24.6	462
Sheet, including plastic film, rods and tubes	1.0	36
..	..	4

TABLE 9 (contd.)

	Quantity		Cost £'000
	Th.cwt.		
Materials (contd.)			
Steel wire	14.9		69
	..		38
	Th.sq.yds.		
Woven piece goods wholly or mainly of cotton	2,077.9		254
	Th.lb.		
Mop yarn and other yarn of cotton or mainly of cotton	2,479.8		286
Packing materials	Th.cwt.		
Cardboard boxes, cartons and fibre-board packing cases	25.8		188
	..		181
All other packing materials	2.9		46
	..		123
Replacement parts for machinery, plant and vehicles and consumable tools bought as replacements	..		112
All other purchased materials	..		1,611
Fuel and electricity	Th.tons		
Coal	9.8		41
Coke	3.3		19
	..		4
Liquid fuels (including creosote/pitch mixtures)	Th.gal.		
For use in internal combustion engines			
Motor spirit (petrol) for use in road vehicles and derv. fuel	242.1		42
Other	14.4		1
For burning in furnaces, boilers, kilns, etc.	73.2		4
Gas purchased	Th.therms		
From Gas Boards and other sources, including other departments of the same firms	618.9		24
	..		5
Electricity purchased (a)	Th.kWh.		
From Electricity Boards	7,517		55
	..		23
From other sources, including other departments of the same firms	609		5
	..		1
All other purchased fuel			1
Total Cost			9,485

(a) The total quantity of electricity generated in firms' own establishments in this industry in 1954 was 1,360 Th.kWh.

Average number of employees and wages, salaries and superannuation payments

Larger establishments in the United Kingdom (a)

TABLE 10

	1951	1954
	Number	Number
Average number of employees		
Operatives	11,773	10,557
Administrative, technical and clerical employees	2,145	2,111
Total	13,918	12,668
Wages and salaries paid to	£'000	£'000
Operatives	2,822	2,931
Administrative, technical and clerical employees	1,064	1,190
Total	3,885	4,121
Wages and salaries per head	£	£
Operatives	240	278
Administrative, technical and clerical employees	496	564

(56115)

TABLE 10 (contd.)

	1951	1954
		£'000
Superannuation and other pension funds for employees and dependents (b)		
Employers' contributions	..	53
Employees covered	..	2,813
		£'000
Pension, etc. payments to former employees and dependents (b)	..	12

(a) The following persons, not included above, were also employed by larger establishments in this industry ('other workers' includes, for example, employees engaged in merchanting).

	United Kingdom	
	1951	1954
Canteen workers	Number	Number
Males	2	1
Females	136	99
Total	138	100
Other workers		
Males	64	72
Females	23	68
Total	87	140
Total excluded employees	225	240

(b) The figures given relate to larger establishments in Great Britain only.

Employment in a specified week (a)

Larger establishments in the United Kingdom

TABLE 11

	1951			1954		
	Males	Females	Total	Males	Females	Total
	Number					
Working proprietors	55	3	58	41	1	42
Operatives	5,216	6,784	12,000	4,471	6,425	10,896
Administrative, technical and clerical employees	1,375	820	2,195	1,295	886	2,181
Total employees	6,591	7,604	14,195	5,766	7,311	13,077

(a) Week ended September 22, 1951, or October 30, 1954.

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