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BOARD OF TRADE

THE REPORT
on the
CENSUS OF PRODUCTION
FOR 1951

Volume 1

Trade K

ABRASIVES



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

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* Not applicable to this trade

ABRASIVES

1/K/1

ABRASIVES TRADE.

THIS REPORT on the Abrasives Trade relates to establishments engaged wholly or mainly in manufacturing artificial abrasives whether in the form of powder, paste, stone or coated paper and cloth, and in shaping natural abrasives into grindstones, etc.

This trade corresponds to minimum list heading 29 (1) in the Standard Industrial Classification.

There were no larger establishments in Northern Ireland in the register for this trade.

IMPORTANT NOTES and definitions appear on the inside of the back cover of this report. In interpreting the data in the following tables, it is essential to bear these in mind.

ABRASIVES TRADE

Summary

Larger establishments (a)

TABLE 1

	Great Britain					
	1951	1950	1949	1948	1937	1935
	£'000	£'000	£'000	£'000	£'000	£'000
Gross output (production) (b)	16,851	13,186	10,666	10,259	3,202	2,572
Cost of materials and fuel used (c)	8,531	6,367	5,270	4,787	1,466	1,154
Payment for work done on materials given out	8	10	12	8	1	-
Transport payments (d)	317	..	..	..	..	..
Net output	7,996	6,809	5,383	5,464	1,735	1,418
Wages and salaries of persons employed	3,404	2,863	2,598	2,424	..	..
	No.	No.	No.	No.	No.	No.
Average number of persons employed (e)	7,700	6,992	6,566	6,604	3,761	3,132
	£	£	£	£	£	£
Net output per person employed (e)	1,038	974	820	827	461	453
	£'000	£'000	£'000	£'000	£'000	£'000
Stocks at end of year						
Products on hand for sale and work in progress	1,770	1,344	1,111	1,028	..	..
Materials and fuel	2,978	2,166	1,690	1,419	..	..
	No.	No.	No.	No.	No.	No.
Number of establishments	40	38	38	37	..	30
The values of gross output and of materials and fuel used are derived in the following way:-						
	£'000	£'000	£'000	£'000	£'000	£'000
Output of firms in this trade (f)						
Principal products (g)	15,926	13,143	10,747	9,791	3,062	2,479
Other output	540					
Changes in stocks and work in progress (h)	+ 385	+ 234	+ 84	+ 212		
	16,851	13,377	10,831	10,370	3,202	2,572
Less payment for transport outwards (d)	..	191	165	111		
Gross output (production)	16,851	13,186	10,666	10,259	3,202	2,572
Materials and fuel used by firms in this trade						
Purchases	9,251	6,840	5,520	4,810	1,466	1,154
Changes in stocks (h)	- 720	- 473	- 249	- 23		
Materials and fuel used	8,531	6,367	5,270	4,787	1,466	1,154

(a) For small firms' summary see Table 2.

(b) Gross output for 1951 includes payments to other firms and undertakings and to firms' own separate transport organisations for transport services. For other years payments for transport services outwards on finished goods sold are excluded.

(c) Amounts paid for delivery services are excluded for 1951 but included for other years.

(d) Payments to other firms and undertakings and to firms' own separate transport organisations. For 1951 they cover payments for transport of both goods sold and materials and fuel purchased. For other years payments cover only transport outwards of finished goods sold.

(e) Excluding outworkers but including working proprietors. For an estimate of the total numbers of persons employed in this trade see Table 3.

(f) Total value of sales (1951, 1950, 1949 and 1948) or production for sale (1937 and 1935).

(g) For details for 1951 and 1948 see Table 8.

(h) For details for 1951 see Table 21.

(89197/1)

Summary

Small firms (a)

TABLE 2

	Great Britain			
	1951	1950	1949	1948
Number of returns	14	20	20	22
Average number of persons employed (b)				
Males	63	92	90	120
Females	14	18	20	12
Total	77	110	110	132

(a) Small firms (employing on the average ten or fewer persons) that made satisfactory returns.

(b) Including working proprietors.

Estimated average employment (a)

All firms

TABLE 3

	Great Britain			
	1951	1950	1949	1948
As returned by firms				
Employing on the average more than ten persons (b)	7,700	6,992	6,566	6,604
Employing on the average ten or fewer persons (c)	77	110	110	132
	7,777	7,102	6,676	6,736
Estimated average employment in firms not making satisfactory returns	11	10	11	37
Estimated average employment in all firms	7,788	7,112	6,687	6,773

(a) Including working proprietors.

(b) See Table 14.

(c) See Table 2.

Analysis by size, 1951

Larger establishments in Great Britain

TABLE 4

Average number employed	Establishments	Gross output	Net output	Persons employed	Remuneration			Net output per person employed
					Operatives	Other employees (a)	Total	
	No.	£'000	£'000	No.	£'000	£'000	£'000	£
11 - 24	7	673	272	134	43	32	74	2,029
25 - 49	10	1,110	415	382	112	52	164	1,087
50 - 99	9	1,463	649	633	194	127	320	1,025
100 - 199	7	2,184	758	982	240	139	379	772
200 and over	7	11,421	5,902	5,569	1,671	795	2,467	1,060
Total	40	16,851	7,996	7,700	2,260	1,144	3,404	1,038

(a) Administrative, technical and clerical employees.

(89197/1)

Analysis by standard region, 1951
Larger establishments in Great Britain

TABLE 5

Region	Estab- lish- ments	Gross output	Net output		Persons employed	Remuneration			Net output per person employed
			Value	Percent- age of total		Operatives	Other employees (a)	Total	
	No.	£'000	£'000		No.	£'000	£'000	£'000	£
England and Wales									
Northern; and North Midland	4	373	161	2.0	119	32	18	49	1,351
East and West Ridings	4	553	264	3.3	172	72	62	134	1,536
Eastern; Southern; South Western; and Wales	6	3,271	1,499	18.8	1,002	263	204	468	1,496
London and South Eastern	8	2,138	724	9.1	827	268	117	385	876
Midland	5	5,087	2,584	32.3	2,527	682	331	1,013	1,023
North Western	9	5,063	2,650	33.1	2,930	899	401	1,300	904
Total England and Wales	36	16,485	7,882	98.6	7,577	2,216	1,134	3,349	1,040
Scotland	4	366	113	1.4	123	44	11	55	922
Great Britain	40	16,851	7,996	100.0	7,700	2,260	1,144	3,404	1,038

(a) Administrative, technical and clerical employees.

Analysis according to specialisation within the trade, 1951

Larger establishments in Great Britain

TABLE 6

	Estab- lish- ments	Gross output	Sales of charac- teristic products	Net output	Persons employed	Remuneration			Net output per person employed
						Operatives	Other employees (a)	Total	
	No.	£'000	£'000	£'000	No.	£'000	£'000	£'000	£
Specialist producers of Abrasive wheels, discs, segments, sharpening stones and other shapes or forms	20	9,677	7,670	5,549	5,449	1,638	839	2,477	1,018
Abrasive paper, cloth and other flexible abrasive materials, and articles made wholly or mainly therefrom	12	5,946	5,349	2,012	2,032	542	264	806	990
Remainder of the trade	8	1,228		434	219	80	41	121	1,983
Total	40	16,851		7,996	7,700	2,260	1,144	3,404	1,038

(a) Administrative, technical and clerical employees.

TABLE 7 - Total make of intermediate products: Larger establishments in Great Britain

This table is not applicable to the trade.

Sales of the principal products of the trade, including sales of these
products by establishments classified to other trades

Larger establishments in Great Britain

TABLE 8

	1951			1948	
	Quantity	Value	Entries	Quantity	Value
		£'000	No.	Tons	£'000
Abrasive wheels, discs, segments, sharpening stones and other shapes or forms					
Aluminium oxide (artificial)	..	5,300	18	8,719	1,572
Silicon carbide	..	1,716	17	2,193	1,803
Diamond impregnated	..	708	9	..	524
Other (including cut from natural rock)	..	144	11	1,570	448
Unclassified	-	-	-	604	294(a) (b)
				..	83
				..	61
				..	161
				..	32
Total abrasive wheels, etc.	..	7,868	..	13,086	2,340
				..	2,636
Abrasive paper, cloth and other flexible abrasive materials, and articles made wholly or mainly therefrom	Th.reams(c)			Th.reams(c)	
Aluminium oxide (artificial)	138	2,122	13	98	1,100
Emery	113	937	10	129	654
Garnet	82	593	11	66	328
Silicon carbide	148	1,226	12	128	871
Glass, flint, sand and other	235	551	15	275	527
Unclassified	..	91	..	..	5
	-	-	-	..	52
Total abrasive paper, etc.	716	5,428	..	696	3,480
	..	91	..	..	56
Metallic abrasives	Th.cwts.			Th.cwts.	
Other abrasives, ground, pulverised, refined or otherwise prepared	836	868	8	501	490
Natural					
Emery	120	240	7	82	156(b)
Other	..	494	7	..	249
Artificial	..	1,274	10	..	629
Waste products	-	-	-	..	2
Work done for the trade or on commission		1(d)	..		-
Total		16,265	..		10,038
Sales in other trades (see Table 9)		338	..		247
Principal products of this trade sold by establishments in the trade		15,926	39		9,791

(a) Described as 'Diamond impregnated grinding wheels, cutting discs, peripheral wheels and the like'.

(b) So far as recorded separately.

(c) Reams of 480 sheets.

(d) Amount charged.

Sales of principal products of the trade by establishments
classified to other trades

Larger establishments in Great Britain

TABLE 9

	1951			1948	
	Quantity	Value £'000	Entries No.	Quantity	Value £'000
Abrasive wheels, discs, segments, sharpening stones and other shapes or forms					
Aluminium oxide (artificial)	..	42	..	-	-
Silicon carbide	..	11	..	-	-
Diamond impregnated	..	121	..	..	107 (a)
Other (including cut from natural rock)	..	17	..	..	13(b)
Unclassified	-	-	-	..	32
Abrasive paper, cloth and other flexible abrasive materials, and articles made wholly or mainly therefrom					
Glass, flint, sand and other	..	91	..	..	6
Unclassified	-	-	-	..	52
Metallic abrasives	Th.cwts. 12	12	..	..	(a)
Other abrasives, ground, pulverised, refined or otherwise prepared					
Natural					
Emery	6	11	..	..	37(b)
Other	-	-	-	..	
Artificial	..	33	..	-	-
Total		338	..		247

(a) Metallic abrasives are included in the figure shown for 'Abrasive wheels, discs, etc. - Diamond impregnated'.
(b) Abrasive wheels, etc. cut from natural rock are included in the figure shown for 'Other abrasives, ground, pulverised, refined or otherwise prepared - Natural'.

TABLE 10 - Sales in the trade of other than principal products

Larger establishments in Great Britain

The total values of the sales of other than principal products amounted to £540,000 in 1951 and £367,000 in 1948.

TABLE 11
Production, exports and imports of certain principal products (a)

		Production (b)(c)	Exports (d)	Retained imports (e)
		£'000	£'000	£'000
Abrasive wheels, discs, segments, sharpening stones and other shapes or forms				
Aluminium oxide (artificial) (f)	{ 1951 1948 1937	5,300 3,375 1,145	493 199 42	.. 4 30
Silicon carbide (f)	{ 1951 1948 1937	1,716 972 275	681 183 88	.. 1 18
Other (including cut from natural rock, and diamond impregnated)	{ 1951 1948 1937	852 437 194(g)	645 335 176(g)	.. 17 48(g)
Total abrasive wheels, etc.:	{ 1951 1948 1937	7,868 4,976(h) 1,614	1,818 716 305	27 22 96
Abrasive paper, cloth and other flexible abrasive materials, and articles made wholly or mainly therefrom				
Emery	{ 1951 1948 1937	937 654 317	448 439 115	.. 2 3
Aluminium oxide (artificial)	{ 1951 1948	2,122 1,100	172 54	....
Garnet	{ 1951 1948	593 328	166 72	....
Silicon carbide	{ 1951 1948	1,226 871	151 98	....
Glass, flint, sand and other	{ 1951 1948	642 531	380 336	....
Total abrasive paper, etc. other than emery	{ 1951 1948 1937	4,583 2,830 792	869 560 159	.. 50 46
Total abrasive paper, etc.	{ 1951 1948 1937	5,520 3,536(h) 1,109	1,317 999 274	75 52 49
Other abrasives, ground, pulverised, refined or otherwise prepared (except metallic abrasives)	{ 1951 1948 1937	2,008 1,034 268	337(i) 204(i) 107	1,671(i) 652(i) 279

- (a) Figures of production (or sales) refer only to larger establishments. All recorded exports from and imports into the United Kingdom are given in the table. The figures, therefore, are not strictly comparable.
(b) Sales in 1951 and 1948, and production for sale in 1937.
(c) Including production (or sales) by establishments classified to other trades.
(d) Valued f.o.b.
(e) Valued c.i.f.
(f) The figures for 1937 relate to grinding wheels only.
(g) Oil stones, rubbing blocks and sharpening stones, of all abrasive materials, and grindstones and other grinding wheels.
(h) Including unclassified sales.
(i) Including crude unground abrasives.

Usage of certain specified purchased materials, 1951

Larger establishments in Great Britain

TABLE 12

Materials used	Quantity
Timber (other than reclaimed), including that used for packing or packing case manufacture but excluding joinery, other fabricated woodwork and purchased packing cases	Th.cu.ft. 47
Woven cotton cloth	Th.sq.yds. 6,381

Employment in September
Larger establishments (a)

TABLE 13
(i) Operatives

	Great Britain						Number
	1951(b)	1950(b)	1949(b)	1948(c)	1937(c)	1935(c)	
Males							
Under 18	108	69	73	74	150	148	
All ages	4,760	4,274	4,023	4,005	2,530	2,148	
Females							
Under 18	47	36	32	33	54	33	
All ages	1,145	848	748	820	329	245	
Total							
Under 18	155	105	105	107	204	181	
All ages	5,905	5,122	4,771	4,825	2,859	2,393	

(ii) Administrative, technical and clerical employees (d)

	Great Britain						Number
	1951	1950	1949	1948	1937	1935	
Males							
Under 18	50	39	26	41	55	85	
All ages	1,205	1,034	1,045	1,065	584	481	
Females							
Under 18	122	88	78	98	87	46	
All ages	824	772	690	714	318	258	
Total							
Under 18	172	127	104	139	142	131	
All ages	2,029(e)	1,806(e)	1,735(e)	1,779(e)	902	739	

(iii) Total employees

	Great Britain						Number
	1951	1950	1949	1948	1937	1935	
Males							
Under 18	158	108	99	115	205	233	
All ages	5,965	5,308	5,068	5,070	3,114	2,629	
Females							
Under 18	169	124	110	131	141	79	
All ages	1,969	1,620	1,438	1,534	647	503	
Total							
Under 18	327	232	209	246	346	312	
All ages	7,934(e)	6,928(e)	6,506(e)	6,604(e)	3,761	3,132	

(a) Excluded employees. The following persons were employed at the larger establishments in this trade in 1951 but are not included in the above tables or in any other Census of Production report (e.g., employees engaged in merchandising):-

Canteen workers 8 Males 81 Females
Other workers 37 Males 24 Females

(b) In week ended September 22, 1951, September 30, 1950 and September 24, 1949.

(c) Average for the year.

(d) In week ended September 22, 1951, September 30, 1950, September 24, 1949, September 25, 1948, October 16, 1937, and October 12, 1935.

(e) No working proprietors were recorded for 1951, 1950, 1949 and 1948. The 1937 and 1935 figures include any working proprietors.

Average employment
Larger establishments (a)

TABLE 14

	Great Britain						Number
	1951	1950	1949	1948	1937	1935	
Operatives	5,690	5,101	4,852	4,825	2,859	2,393	
Administrative, technical and clerical employees	2,010	1,891	1,714	1,779(b)	902(b)	739(b)	
Total	7,700	6,992	6,566	6,604	3,761	3,132	

(a) For employment in small firms (employing on the average ten or fewer persons) that made satisfactory returns, see Table 2.

(b) In week ended September 25, 1948, October 16, 1937, and October 12, 1935. The 1937 and 1935 figures include any working proprietors.

Outworkers. In addition to the employees shown above the firms in this trade employed 3 female outworkers in 1950 and 10 female outworkers in 1948. No outworkers were recorded for other years.

Shift working, 1951 (a)
Larger establishments in Great Britain

TABLE 15

	Total number of man-shifts worked in the week	Total number of shift-hours worked in the week	Number of returns showing the systems stated
Continuous 3 shift systems per 24 hours averaging 8 hours per shift	1,020	8,308	4
Continuous 4 shift systems per 24 hours averaging 6 hours per shift	-	-	-
All 2 shift systems	2,510	23,715	4
Other shift systems	-	-	-
Total	3,530	32,023	(b)

(a) Shift working during week ended September 22, 1951.

(b) The number and percentage of returns showing shift working and of operatives on shift-work were as follows:-

	Returns		Operatives		
	Total in trade	Showing shift-work	Total in trade	Total on returns showing shift-work	Number employed on shift-work
Number	39	5	5,905	3,753	687
Percentage of total in trade	100.0	12.8	100.0	63.6	11.6
Percentage of total on returns showing shift-work				100.0	18.3

Wages and salaries and employers' National Insurance contributions paid during the year

Larger establishments

	Great Britain			
	1951	1950	1949	1948
Wages and salaries (a) of				
Operatives	2,260	1,847	1,676	1,575
Administrative, technical and clerical employees	1,144	1,016	922	848
Total	3,404	2,863	2,598	2,424
Employers' contributions to all National Insurance Schemes	76	68	64	52

(a) Including bonus and commission payments but excluding small payments to outworkers in 1950 and 1948. No outworkers were recorded for 1951 or 1949.

Plant, machinery and vehicles - acquisitions and disposals, and capital expenditure on new building work

Larger establishments

	Great Britain		
	1951	1949	1948
Plant, machinery and vehicles			
Acquisitions			
Plant and machinery			
New	335	208	195
Second-hand	5	2	9
Vehicles			
New	51	25	36
Second-hand	10	8	3
Total acquisitions	401	244	243
Disposals			
Plant and machinery	6	5	2
Vehicles	11	8	7
Total disposals	17	12	9
New building work			
Capital expenditure on new building and other constructional work of a capital nature (excluding site values and development charges)	169	31	40

1951

Summary

Larger establishments

TABLE 18

	England (a)	Wales (a)	Scotland	Great Britain
	£'000	£'000	£'000	£'000
Gross output (production)	16,485	..	366	16,851
Cost of materials and fuel used	8,320	..	210	8,531
Payment for work done on materials given out	8	..	-	8
Transport payments	275	..	42	317
Net output	7,882	..	113	7,996
Wages and salaries of persons employed	3,349	..	55	3,404
No.	No.	No.	No.	No.
Average number of persons employed	7,577	..	123	7,700
£	£	£	£	£
Net output per person employed	1,040	..	922	1,038
£'000	£'000	£'000	£'000	£'000
Stocks at end of year				
Products on hand for sale and work in progress	1,748	..	22	1,770
Materials and fuel	2,954	..	24	2,978
No.	No.	No.	No.	No.
Number of establishments	36	..	4	40

The values of gross output and of materials and fuel used are derived in the following way:-

	England	Wales	Scotland	Great Britain
	£'000	£'000	£'000	£'000
Output of firms in this trade				
Total value of sales (see Table 20)	16,099	..	368	16,467
Changes in stocks and work in progress (see Table 21)	+ 387	..	- 2	+ 385
Gross output (production)	16,485	..	366	16,851
Materials and fuel used by firms in this trade				
Purchases	9,038	..	213	9,251
Changes in stocks (see Table 21)	- 718	..	- 3	- 720
Materials and fuel used	8,320	..	210	8,531

(a) Owing to the risk of disclosure of information relating to individual firms, particulars for Wales cannot be given separately and have been included with those for England.

Summary

Small firms (a)

TABLE 19

	England	Wales	Scotland	Great Britain
Number of returns	14	-	-	14
Average number of persons employed (b)				
Males	63	-	-	63
Females	14	-	-	14
Total	77	-	-	77

(a) Small firms (employing on the average ten or fewer persons) that made satisfactory returns.
(b) Including working proprietors.

TREATMENT OF NON-METALLIFEROUS MINING PRODUCTS OTHER THAN COAL
COUNTRY TABLES

Sales in the trade
Larger establishments

TABLE 20

	England and Wales		Scotland		Great Britain	
	Quantity	Value £'000	Quantity	Value £'000	Quantity	Value £'000
Principal products						
Abrasive wheels, discs, segments, sharpening stones and other shapes or forms						
Aluminium oxide (artificial)	..	5,259	-	-	..	5,259
Silicon carbide	..	1,705	-	-	..	1,705
Diamond impregnated	..	587	-	-	..	587
Other (including cut from natural rock)	..	(a)	..	(a)	..	127
Abrasive paper, cloth and other flexible abrasive materials, and articles made wholly or mainly therefrom	Th.reams (b)				Th.reams (b)	
Aluminium oxide (artificial)	138	2,122	-	-	138	2,122
Emery	113	937	-	-	113	937
Garnet	82	593	-	-	82	593
Silicon carbide	148	1,226	-	-	148	1,226
Glass, flint, sand and other	235	551	-	-	235	551
Metallic abrasives	Th.cwts.				Th.cwts.	
..	..	(a)	..	(a)	..	856
Other abrasives, ground, pulverised, refined or otherwise prepared						
Natural						
Emery	114	228	-	-	114	228
Other	..	494	-	-	..	494
Artificial	..	1,241	-	-	..	1,241
Work done for the trade or on commission (c)		1		-		1
Total principal products		15,558		368		15,926
Other output	..	540	-	-	..	540
Total		16,099		368		16,467

(a) Owing to the risk of disclosure of information relating to individual firms, separate particulars cannot be given.

(b) Reams of 480 sheets.

(c) Amount charged.

Stocks of products on hand for sale and work in progress,
and stocks of materials and fuel

Larger establishments

TABLE 21

		£'000		
		England and Wales	Scotland	Great Britain
Products on hand for sale	{ at beginning of year	853	4	857
	{ at end of year	1,167	5	1,172
Work in progress	{ at beginning of year	508	20	528
	{ at end of year	582	17	599
Total products on hand for sale and work in progress	{ at beginning of year	1,362	24	1,386
	{ at end of year	1,748	22	1,770
Materials and fuel	{ at beginning of year	2,236	21	2,257
	{ at end of year	2,954	24	2,978

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ABRASIVES COUNTRY TABLES

Employment in September: Larger establishments (a)(b)

TABLE 22

(i) Operatives

	England and Wales	Scotland	Great Britain
Males			
Under 18	(c)	(c)	108
All ages	4,670	90	4,760
Females			
Under 18	(c)	(c)	47
All ages	1,120	25	1,145
Total			
Under 18	(c)	(c)	155
All ages	5,790	115	5,905

(ii) Administrative, technical and clerical employees

	England and Wales	Scotland	Great Britain
Males			
Under 18	50	-	50
All ages	1,198	7	1,205
Females			
Under 18	119	3	122
All ages	814	10	824
Total			
Under 18	169	3	172
All ages (d)	2,012	17	2,029

(iii) Total employees

	England and Wales	Scotland	Great Britain
Males			
Under 18	(c)	(c)	158
All ages	5,868	97	5,965
Females			
Under 18	(c)	(c)	169
All ages	1,934	35	1,969
Total			
Under 18	(c)	(c)	327
All ages (d)	7,802	132	7,934

(a) Excluded employees. The number of persons employed at the larger establishments in this trade but not included in the above tables or in any other Census of Production report (e.g., employees engaged in merchandising) are shown in Table 22(iv) below.

(b) Number employed in the week ended September 22, 1951.

(c) Owing to the risk of disclosure of information relating to individual firms, separate particulars cannot be given.

(d) No working proprietors were recorded in this trade.

(iv) Excluded employees

	England and Wales	Scotland	Great Britain
Canteen workers			
Males	8	-	8
Females	81	-	81
Total	89	-	89
Other workers			
Males	37	-	37
Females	24	-	24
Total	61	-	61
Total excluded employees	150	-	150

Average employment: Larger establishments (a)

TABLE 23

	England and Wales	Scotland	Great Britain
Operatives	5,584	106	5,690
Administrative, technical and clerical employees	1,993	17	2,010
Total	7,577	123	7,700

(a) For employment in small firms (employing on the average ten or fewer persons) that made satisfactory returns see Table 19.

No outworkers were employed in this trade.

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TREATMENT OF NON-METALLIFEROUS MINING PRODUCTS OTHER THAN COAL
COUNTRY TABLES

Wages and salaries and employers' National Insurance
contributions paid during the year

Larger establishments

	England and Wales	Scotland	Great Britain
Wages and salaries (a) of			
Operatives	2,216	44	2,260
Administrative, technical and clerical employees	1,134	11	1,144
Total	3,349	55	3,404
Employers' contributions to all National Insurance Schemes	75	1	76

(a) Including bonus and commission payments.

Plant, machinery and vehicles - acquisitions and disposals,
and capital expenditure on new building work

Larger establishments

	England and Wales	Scotland	Great Britain
Plant, machinery and vehicles			
Acquisitions			
Plant and machinery			
New	316	19	335
Second-hand	5	-	5
Vehicles			
New	57 (a)	4 (a)	51
Second-hand			10
Total acquisitions	378	23	401
Disposals			
Plant and machinery	6	-	6
Vehicles	10	-	11
Total disposals	16	-	17
New building work			
Capital expenditure on new building and other constructional work of a capital nature (excluding site values and development charges)	(a)	(a)	169

(a) Owing to the risk of disclosure of information relating to individual firms, separate particulars cannot be given.

Payments for transport services for finished goods
sold and materials and fuel purchased

Larger establishments

	England and Wales	Scotland	Great Britain
Amounts paid to other firms and undertakings	275 (a)	42 (a)	317 (a)
Amount paid or credited to firms' own separate transport organisations			
Total	275	42	317

(a) Owing to the risk of disclosure of information relating to individual firms, separate particulars cannot be given.

GENERAL NOTES

The following brief notes refer to Great Britain and, unless otherwise stated, to the census of production for 1951. Reference should be made to the separate booklet in this series entitled 'The Report on the Census of Production for 1951: Introductory Notes' (price 1s.6d. net) for particulars of the minor differences in the Northern Ireland censuses and other details about the census of production.

Trade classification: Establishments are classified to trades according to the nature of their output. Certain products, called principal products, are identified as characteristic of the production of individual trades, the principal products for a given trade being of a similar nature or commonly associated in production. An establishment is classified to a trade if its output of principal products of that trade accounted for a greater proportion of the value of its output than did its output of principal products of any other trade.

The establishment: The basic unit for the collection of information is generally the establishment which in most cases comprises the whole of the premises under the same ownership or management at a particular address (e.g., a factory). Offices, warehouses and other ancillary places of business situated apart from the producing works are included in the return for the works.

Larger establishments and small firms: Larger establishments are those which employed more than 10 persons on the average during the year; small firms are those employing on the average 10 or fewer persons.

Working proprietors are proprietors of businesses other than limited companies, and include members of their families who work in the business without receiving fixed wages or salaries. Any persons working less than half the normal hours are excluded.

Persons employed: Administrative employees include directors other than those paid by fee only, managers, superintendents and works foremen; research, experimental, development, technical and design employees (other than operatives); draughtsmen and tracers; and travellers and office (including works office) employees. Operatives include all other classes of employees, that is, broadly speaking, all manual workers.

All these figures exclude canteen employees and persons engaged in merchanting or any other activity not covered by a firm's return who are shown separately as excluded employees.

Figures for employees include only persons on the pay-roll (that is whose National Insurance cards were held by the firm), whether full-time or part-time employees.

Outworkers, who are shown separately, are persons employed by the firm who work on materials supplied by the firm, but do not work on the premises; operatives directly employed who work out of doors (e.g., maintenance workers) and sub-contractors are not included as outworkers.

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

Capital expenditure: Expenditure on plant, machinery and vehicles relates to expenditure charged to capital account during the year of return, including transport and installation costs involved. Expenditure on new building work is similarly that charged to capital account during the year.

Materials and fuel: The cost of materials and fuel purchased includes all purchases during the year of materials for use in production and of fuel (including oil, gas, and electricity for all purposes, including heating and lighting); all packing materials, including the full cost of returnable containers when first purchased; workshop materials; office materials; water charges; materials for repairs to firms' own buildings, plant and vehicles when carried out by

their own work people included in the return; and consumable tools and parts for machinery purchased as replacement. Materials, components, etc. which were purchased and re-sold in the same state (that is, merchantable or factored goods) were excluded. For 1951 firms in many trades were required to state the quantities of certain purchased materials used.

Stocks and work in progress: Firms were instructed to give these at income tax value.

Output: 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. For all post-war censuses the value of sales was the net selling value, that is, 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.

Gross output of a trade is the total value of goods made and other work done during the year; this means the value of sales and work done during the year adjusted for changes in the values of stocks.

Net output is the amount left after deducting from the value of gross output the aggregate of the cost of materials and fuel used and the amount paid for work given out and, for 1951, any transport payments included in firms' returns. 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.

Customs and Excise Duty paid on materials purchased is included in the cost of materials, but where it is especially important separate figures are shown.

Later reports: Reports will be published later summarising the main census results and giving information about power equipment and fuel consumption.

Disclosure of information: The report has been prepared in conformity with the disclosure provisions of the Statistics of Trade Act, 1947. Figures have been combined with others of a similar nature in certain cases where publication of separate details might disclose the operations of an individual firm.

Symbols used: '.' for 'Not available', '-' for 'Nil or negligible (less than half the final digit shown)'

The figures in the tables have been rounded off to the nearest final digit, and there may be an apparent slight discrepancy between the sums of the constituent items and the totals shown.

Tables 1 to 17 show figures for the United Kingdom (or Great Britain).

Tables 18 to 26 are country tables and give, where practicable, separate details for England and Wales, Scotland and Northern Ireland.

Table 6: Specialist producers refer to those establishments 50 per cent. or more of whose total output by value is accounted for by the groups of products specified.

Table 8 (or 8(i)) shows the total sales of principal products of the trade, and includes therefore the sales of these products returned by establishments whether classified to the trade or to other trades. Those produced by establishments in other trades are shown in Table 9.

Table 10 shows the sales by establishments in the trade of products other than those regarded as principal products of the trade.

Table 20 (or 20(i)) shows sales by establishments in the trade of products, whether principal products or not, and broadly the aggregates here are equal to the corresponding figures in Table 8 (or 8(i)) less those in Table 9, plus those in Table 10.

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