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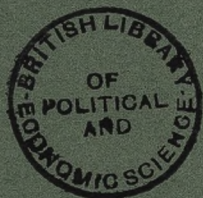
BOARD OF TRADE

THE REPORT
on the
CENSUS OF PRODUCTION
FOR 1951

Volume 1

Trade J

CEMENT



*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).*

LONDON : HER MAJESTY'S STATIONERY OFFICE

1954

Price 1s 6d net

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* Not applicable to this trade

CEMENT TRADE

THIS REPORT on the Cement Trade relates to establishments engaged wholly or mainly in the manufacture of cement of all types other than refractory, gypseous and plaster type cements.

This trade corresponds to minimum list heading 24 in the Standard Industrial Classification.

The 1935 figures are not precisely comparable with those for later years as a number of firms, which for 1935 employed about 800 quarry workers, made separate returns in other trades for their associated quarries in that year but included them for later years in combined returns in 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.

CEMENT TRADE

Summary

Larger establishments (a)

TABLE 1

	United Kingdom			Great Britain		United Kingdom	
	1951	1950	1949	1949(b)	1948	1937	1935
	£'000	£'000	£'000	£'000	£'000	£'000	£'000
Gross output (production) (c)	46,287	33,069	30,275	..	27,628	11,707	9,135
Cost of materials and fuel used (d)	25,767	18,383	16,792	..	15,520	5,445	3,693
Payment for work done on materials given out	-	8	-	-	-	-	-
Transport payments (e)	2,141	..	..	..	..	..	..
Net output	18,379	14,678	13,484	..	12,108	6,262	5,442
Wages and salaries of persons employed	6,094	4,827	4,432	..	3,947	..	..
Average number of persons employed (f)	No. 12,318	No. 10,938	No. 10,603	No. ..	No. 10,191	No. 12,211	No. 9,508
Net output per person employed (f)	£ 1,492	£ 1,342	£ 1,272	£ ..	£ 1,188	£ 513	£ 572
Stocks at end of year	£'000	£'000	£'000	£'000	£'000	£'000	£'000
Products on hand for sale and work in progress	1,329	859	757	..	843	..	..
Materials and fuel	6,206	4,657	3,874	..	3,212	..	..
Number of establishments	No. 48	No. 46	No. 46	No. ..	No. 44	No. ..	No. 56

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

	£'000	£'000	£'000	£'000	£'000	£'000	£'000
Output of firms in this trade (g)							
Principal products (h)	43,968	34,264	31,279	..	27,566	11,263	8,753
Other output	1,888						
Changes in stocks and work in progress (i)	+ 431	+ 73	- 98	..	- 49		
Less payment for transport outwards (e)	46,287	34,337	31,181	..	28,350	11,707	9,135
	..	1,268	905	..	721		
Gross output (production)	46,287	33,069	30,275	..	27,628	11,707	9,135
Materials and fuel used by firms in this trade							
Purchases	27,263	19,132	17,377	..	16,153	5,445	3,693
Changes in stocks (i)	- 1,496	- 748	- 586	..	- 633		
Materials and fuel used	25,767	18,383	16,792	..	15,520	5,445	3,693

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

(b) Owing to the risk of disclosure of information relating to individual firms in Northern Ireland separate particulars for Great Britain cannot be given.

(c) 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.

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

(e) 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.

(f) Including working proprietors. For an estimate of the total number of persons employed in this trade see Table 3.

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

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

(i) For details for 1951 see Table 21.

(19105-1)

CEMENT

Summary

Small firms (a)

TABLE 2

	Great Britain		United Kingdom	Great Britain	
	1951	1950	1949	1949	1948
Number of returns	3	5	4	4	10
Average number of persons employed (b)					
Males	7	10	5	5	36
Females	4	5	1	1	6
Total	11	15	6	6	42

(a) Small firms (employing on the average ten or fewer persons) that made satisfactory returns. No information about small firms was collected in Northern Ireland for 1951 or 1950.

(b) Including working proprietors.

Estimated average employment (a)

All firms

TABLE 3

	United Kingdom			Great Britain	
	1951	1950	1949	1949	1948
As returned by firms					
Employing on the average more than ten persons (c)	12,318	10,938	10,603	(b) 6	10,191
Employing on the average ten or fewer persons (d)	11(e)	15(e)	6	6	42
Estimated average employment in firms not making satisfactory returns	12,329	10,953	10,609	(b)	10,233
	-	3	-	-	-
Estimated average employment in all firms	12,329(e)	10,956(e)	10,609	(b)	10,233

(a) Including working proprietors.

(b) Owing to the risk of disclosure of information relating to individual firms in Northern Ireland separate particulars for Great Britain cannot be given.

(c) See Tables 13(iv) and 14.

(d) See Table 2.

(e) Excluding any small firms in Northern Ireland.

Analysis by size, 1951

Larger establishments in the United Kingdom

TABLE 4

Average number employed	Establishments	Gross output (a)	Net output (a)	Persons employed	Remuneration			Net output per person employed (a)
					Operatives	Other employees (a)(b)	Total	
25 - 99	No. 13	£'000 3,657	£'000 1,243	No. 919	£'000 302	£'000 101	£'000 404	£ 1,353
100 - 199	11	6,582	2,419	1,675	608	174	782	1,444
200 - 749	21	27,081	10,784	6,887	2,608	830	3,438	1,566
750 and over	3	8,968	3,933	2,837	1,088	383	1,470	1,386
Total	48	46,287	18,379	12,318	4,606	1,488	6,094	1,492

(a) The figures in this column (except the total) are mainly estimated.

(b) Administrative, technical and clerical employees.

(19105-1)

TREATMENT OF NON-METALLIFEROUS MINING PRODUCTS OTHER THAN COAL

Analysis by standard region, 1951

Larger establishments in the United Kingdom

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 Northern Ireland									
Northern; East and West Ridings; and North Midland	8	8,594	3,486	19.0	2,839	980	358	1,338	1,228
Eastern	11	11,164	4,453	24.2	2,587	1,006	342	1,348	1,721
London and South Eastern; Southern; Midland; North Western; and Northern Ireland	21	22,416	9,036	49.2	5,804	2,210	691	2,901	1,557
South Western	-	-	-	-	-	-	-	-	-
Total England and Northern Ireland	40	42,173	16,975	92.4	11,230	4,195	1,391	5,587	1,512
Wales	4	3,129	1,192	6.5	847	329	75	404	1,407
Scotland	4	985	212	1.1	241	82	21	103	879
United Kingdom	48	46,287	18,379	100.0	12,318	4,606	1,488	6,094	1,492

(a) Administrative, technical and clerical employees.

TABLE 6 - Analysis according to specialisation within the trade, 1951

Larger establishments in the United Kingdom

No specialisation within this trade was distinguished.

Total quantity of minerals raised by establishments classified to the trade (a)

Larger establishments

TABLE 7

Minerals raised	United Kingdom 1951	
	Quantity	Entries
	Th. tons	No.
Chalk	10,499	8
Limestone	3,173	10
Clay	3,232	10
Other kinds	1,057	6

(a) Minerals returned in this trade for use in making cement, etc., in the firms' own works or for sale as such, but excluding output returned in the Non-Metalliferous Mines and Quarries Trade (Volume 1, Trade B). No details are available in respect of the year 1948.

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

Larger establishments

TABLE 8

	United Kingdom 1951			Great Britain 1948	
	Quantity	Value	Entries	Quantity	Value
	Th. tons	£'000	No.	Th. tons	£'000
Ordinary Portland cement, ground, including rapid hardening	10,249	40,025	18	8,334	26,381
Other ground calcareous cements and aluminous cement	430	3,118	8	200	1,510
Other cements (including cement clinker) except refractory, gypseous and plaster type cements	55	832	10	121(a)	723
Work done for the trade or on commission (b)		1	..		-
Total		43,975	..		28,614
Sales in other trades (See Table 9)		8	..		1,049
Principal products of this trade sold by establishments in the trade		43,968	23		27,566

(a) Corrected figure.

(b) Amount charged.

TABLE 9 - Sales of principal products of the trade by establishments classified to other trades: Larger establishments

Establishments classified to other trades recorded sales valued at £8,000 in 1951 (United Kingdom) and £1,049,000 (255,000 tons) in 1948 (Great Britain). The sales in 1948 covered each type of cement shown in Table 8 other than aluminous cement.

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

Larger establishments

The total value of sales in the United Kingdom in 1951 of other than principal products amounted to £1,888,000. In 1948 the value was £834,000 in respect of Great Britain.

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

TABLE 11

	Production (b)	Exports	Retained Imports
	Th. tons	Th. tons	Th. tons
Calcareous cements, ground, and aluminous cement	{ 1951 10,679 1948 8,533	1,926 1,556	305 61

(a) Figures of production (sales) refer only to larger establishments in the United Kingdom (1951) or Great Britain (1948). All recorded exports from and imports into the United Kingdom are given in the Table. The figures, therefore, are not strictly comparable.

(b) Sales, including sales by establishments classified to other trades.

TABLE 12 - Usage of certain specified purchased materials, 1951

Larger establishments in the United Kingdom

No information on usage of materials was required from this trade.

Employment in September
Larger establishments (a)TABLE 13
(i) Operatives

	United Kingdom			Great Britain		United Kingdom	
	1951(b)	1950(b)	1949(b)	1949(b)(c)	1948(d)	1937(d)	1935(d)
Males							
Under 18	178	156	145	..	142	480	282
All ages	10,000	9,039	8,704	..	8,326	10,054	7,592
Females							
Under 18	3	9	4	..	8	3	3
All ages	172	152	150	..	195	42	48
Total							
Under 18	181	165	149	..	150	483	285
All ages	10,172	9,191	8,854	..	8,521	10,096	7,640

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

	United Kingdom			Great Britain		United Kingdom	
	1951	1950	1949	1949(c)	1948	1937	1935
Males							
Under 18	25	30	19	..	29	162	100
All ages	1,751	1,526	1,413	..	1,366	1,711	1,516
Females							
Under 18	57	62	50	..	56	58	22
All ages	434	372	337	..	304	404	352
Total							
Under 18	82	92	69	..	85	220	122
All ages	2,185(f)	1,898(f)	1,750(f)	..	1,670(f)	2,115	1,868

(iii) Total employees

	United Kingdom			Great Britain		United Kingdom	
	1951	1950	1949	1949(c)	1948	1937	1935
Males							
Under 18	203	186	164	..	171	642	382
All ages	11,751	10,565	10,117	..	9,692	11,765	9,108
Females							
Under 18	60	71	54	..	64	61	25
All ages	606	524	487	..	499	446	400
Total							
Under 18	263	257	218	..	235	703	407
All ages	12,357(f)	11,089(f)	10,604(f)	..	10,191(f)	12,211	9,508

(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 in Great Britain engaged, for example, in merchandising and in Northern Ireland canteen and welfare workers):-

Canteen workers 32 Males 147 Females
Other workers 61 Males 2 Females

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

(c) Owing to the risk of disclosure of information relating to individual firms in Northern Ireland separate particulars for Great Britain cannot be given.

(d) Average for the year.

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

(f) Working proprietors. In addition working proprietors, shown in Table 13 (iv) below, were engaged in this trade in larger establishments. The 1937 and 1935 figures include working proprietors.

(iv) Working proprietors

	United Kingdom			Great Britain	
	1951	1950	1949	1949	1948
Males	1	1	2	..	-
Females	1	1	1	..	-
Total	2	2	3	..	-

Average employment
Larger establishments (a)

TABLE 14

	United Kingdom			Great Britain		United Kingdom	
	1951	1950	1949	1949(b)	1948	1937	1935
Operatives	10,130(c)	9,057	8,852	..	8,521	10,096	7,640
Administrative, technical and clerical employees	2,186	1,879	1,748	..	1,670(d)	2,115(d)	1,868(d)
Total	12,316	10,936	10,600	..	10,191	12,211	9,508

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

(b) Owing to the risk of disclosure of information relating to individual firms in Northern Ireland separate particulars for Great Britain cannot be given.

(c) Including 1,107 operatives employed in the quarries or clay-pits which were associated with cement works in Great Britain. Separate particulars for earlier years are not available.

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

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	24,554	198,948	19
Continuous 4 shift systems per 24 hours averaging 6 hours per shift	-	-	-
All 2 shift systems (b)	1,228	12,664	5
Other shift systems (b)			
Total	25,782	211,612	(c)

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

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

(c) 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	100.0	95.0(d)	100.0	9,950	3,788
Percentage of total in trade				99.0(d)	38.0(d)
Percentage of total on returns showing shift-work				100.0	38.1

(d) Rounded to avoid disclosure.

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

Larger establishments

	United Kingdom			Great Britain	
	1951	1950	1949	1949(a)	1948
Wages and salaries (b) of					
Operatives	4,606	3,673	3,408	..	3,040
Administrative, technical and clerical employees	1,488	1,153	1,024	..	907
Total	6,094	4,827	4,432	..	3,947
Employers' contributions to all National Insurance Schemes	123	107	105	..	83

(a) Owing to the risk of disclosure of information relating to individual firms in Northern Ireland separate particulars for Great Britain cannot be given.

(b) Including bonus and commission payments.

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

Larger establishments

	United Kingdom		Great Britain	
	1951	1949	1949(a)	1948
Plant, machinery and vehicles				
Acquisitions				
Plant and machinery				
New	1,929	2,003	..	913
Second-hand	24	8	..	98
Vehicles				
New	311	197	..	81
Second-hand	15	25	..	29
Total acquisitions	2,278	2,233	..	1,121
Disposals				
Plant and machinery	44	23	..	69
Vehicles	14	18	..	12
Total disposals	58	41	..	81
New building work				
Capital expenditure on new building and other constructional work of a capital nature (excluding site values and development charges)	768	854	..	231

(a) Owing to the risk of disclosure of information relating to individual firms in Northern Ireland separate particulars for Great Britain cannot be given.

Summary

Larger establishments

TABLE 18

	England(a)	Wales	Scotland	Great Britain	Northern Ireland(a)	United Kingdom
	£'000	£'000	£'000	£'000	£'000	£'000
Gross output (production)	42,173	3,129	985	..	..	46,287
Cost of materials and fuel used	23,504	1,525	739	..	..	25,767
Payment for work done on materials given out	-	-	-	-	-	-
Transport payments	1,694	413	35	..	..	2,141
Net output	16,975	1,192	212	..	..	18,379
Wages and salaries of persons employed	5,587	404	103	..	..	6,094
Average number of persons employed (b)	No. 11,230	No. 847	No. 241	No. ..	No. ..	No. 12,318
Net output per person employed (b)	£ 1,512	£ 1,407	£ 879	£ ..	£ ..	£ 1,492
Stocks at end of year	£'000	£'000	£'000	£'000	£'000	£'000
Products on hand for sale and work in progress	1,215	93	22	..	..	1,329
Materials and fuel	5,514	483	209	..	..	6,206
Number of establishments	No. 40	No. 4	No. 4	No. ..	No. ..	No. 48

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						
Total value of sales (see Table 20)	41,755	3,123	978	..	..	45,856
Changes in stocks and work in progress (see Table 21)	+ 418	+ 6	+ 7	..	..	+ 431
Gross output (production)	42,173	3,129	985	..	..	46,287
Materials and fuel used by firms in this trade						
Purchases	24,806	1,652	804	..	..	27,263
Changes in stocks (see Table 21)	- 1,302	- 128	- 66	..	..	- 1,496
Materials and fuel used	23,504	1,525	739	..	..	25,767

(a) Owing to the risk of disclosure of information relating to individual firms particulars for Northern Ireland, where net output was about 1 per cent. of that of the United Kingdom, cannot be given separately but have been included with those for England.

(b) Including working proprietors.

TABLE 19 - Summary: Small firms in Great Britain

See Table 2. There were no small firms in Wales or Scotland in the register for this trade.

Sales in the trade

Larger establishments

TABLE 20

	England and Wales		Scotland		Great Britain		Northern Ireland		United Kingdom	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
	Th. tons	£' 000		£' 000	Th. tons	£' 000		£' 000	Th. tons	£' 000
Principal products										
Ordinary Portland cement, ground, including rapid hardening	..	(a)	..	(a)	..	..	..	(a)	10,249	40,025
Other ground calcareous cements and aluminous cement	..	(a)	..	(a)	430	3,118	-	-	430	3,118
Other cements (including cement clinker) except refractory, gypseous and plaster type cements	55	824	-	-	55	824	-	-	55	824
Work done for the trade or on commission (b)		1		-		1		-		1
Total principal products		(a)		(a)		..		(a)		43,968
Other Output	..	(a)	..	(a)	..	..		(a)	..	1,888
Total		44,878 (c)		978		..		(c)		45,856

- (a) Owing to the risk of disclosure of information relating to individual firms separate particulars cannot be given.
 (b) Amount charged.
 (c) Owing to the risk of disclosure of information relating to individual firms the figure for Northern Ireland cannot be given separately but has been included with that for England and Wales.

CEMENT COUNTRY TABLES

1/J/11

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	Northern Ireland	United Kingdom
Products on hand for sale	{ at beginning of year	(a)	(a)	..	(a)	568
	{ at end of year					748
Work in progress	{ at beginning of year	(a)	(a)	..	(a)	329
	{ at end of year					581
Total products on hand for sale and work in progress	{ at beginning of year	883 (b)	15	..	(b)	898
	{ at end of year	1,307 (b)	22	..	(b)	1,329
Materials and fuel	{ at beginning of year	4,568 (b)	143	..	(b)	4,710
	{ at end of year	5,998 (b)	209	..	(b)	6,206

(a) Owing to the risk of disclosure of information relating to individual firms separate particulars for products on hand for sale and for work in progress cannot be given.

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

Employment in September

Larger establishments (a)(b)

Note - Owing to the risk of disclosure of information relating to individual firms particulars for Northern Ireland cannot be given separately and have been included with those for England and Wales throughout this table.

TABLE 22

(i) Operatives

Number

	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Males					
Under 18	178	-	..	..	178
All ages	9,813	187	..	..	10,000
Females					
Under 18	3	-	3	-	3
All ages	166	6	172	-	172
Total					
Under 18	181	-	..	..	181
All ages	9,979	193	..	..	10,172

(ii) Administrative, technical and clerical employees

Number

	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Males					
Under 18	21	4	..	..	25
All ages	1,712	39	..	..	1,751
Females					
Under 18	56	1	57	-	57
All ages	422	12	..	..	434
Total					
Under 18	77	5	..	..	82
All ages (c)	2,134	51	..	..	2,185

(Continued overleaf)

TABLE 22 (contd.)

	(iii) Total employees					Number
	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom	
Males						
Under 18	199	4	..	..		203
All ages	11,525	226	..	..		11,751
Females						
Under 18	59	1	60	-		60
All ages	588	18	..	..		606
Total						
Under 18	258	5	..	..		263
All ages (c)	12,113	244	..	..		12,357

(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 in Great Britain engaged, for example, in merchandising and in Northern Ireland canteen and welfare workers) are shown in Table 22(iv) below.

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

(c) In addition, 2 working proprietors were engaged in this trade in larger establishments.

	(iv) Excluded employees					Number
	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom	
Canteen workers						
Males	32	-	32	-		32
Females	147	-	..	..		147
Total	179	-	..	..		179
Other workers						
Males	61	-	..	..		61
Females	2	-	2	-		2
Total	63	-	..	..		63
Total excluded employees	242	-	..	..		242

Average employment
Larger establishments (a)

	TABLE 23					Number
	England and Wales (b)	Scotland	Great Britain	Northern Ireland (b)	United Kingdom	
Operatives	9,941	189	..	..		10,130
Administrative, technical and clerical employees	2,134	52	..	..		2,186
Total	12,075	241	..	..		12,316

(a) For employment in small firms in Great Britain (employing on the average ten or fewer persons) that made satisfactory returns see Table 2. There were no small firms in Wales or Scotland in the register for this trade.

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

Outworkers. No outworkers were recorded in this trade.

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

TABLE 24

	TABLE 24					£'000
	England and Wales (a)	Scotland	Great Britain	Northern Ireland (a)	United Kingdom	
Wages and salaries (b) of						
Operatives	4,524	82	..	..		4,606
Administrative, technical and clerical employees	1,466	21	..	..		1,488
Total	5,990	103	..	..		6,094
Employers' contributions to all National Insurance Schemes	121	2	..	..		123

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

(b) Including bonus and commission payments.

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

TABLE 25

	TABLE 25					£'000
	England and Wales (a)	Scotland	Great Britain	Northern Ireland (a)	United Kingdom	
Plant, machinery and vehicles						
Acquisitions						
Plant and machinery						
New	1,919	10	..	..		1,929
Second-hand	24	-	..	..		24
Vehicles						
New	311	-	..	..		311
Second-hand	15	-	15	-		15
Total acquisitions	2,269	10	..	..		2,278
Disposals						
Plant and machinery	44	-	..	..		44
Vehicles	14	-	14	-		14
Total disposals	58	-	..	..		58
New building work						
Capital expenditure on new building and other constructional work of a capital nature (excluding site values and development charges)	761	7	..	..		768

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

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

Larger establishments

TABLE 26

£'000

	England and Wales (a)	Scotland	Great Britain	Northern Ireland (a)	United Kingdom
Amounts paid to other firms and undertakings	1,579	32	..	..	1,611
Amount paid or credited to firms' own separate transport organisations	528	2	530	-	530
Total	2,106	35	..	..	2,141

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

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 merchandising 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, merchanted 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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1954

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PRINTED IN GREAT BRITAIN

S.O. Code No. 51-328-1-10