



BOARD OF TRADE

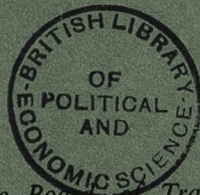
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THE REPORT
on the
CENSUS OF PRODUCTION
FOR 1951

Volume 10

Trade F

PAPER AND BOARD



*Presented by the Board of Trade to Parliament
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TWO SHILLINGS NET

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* Not applicable to this trade

PAPER AND BOARD TRADE

THIS REPORT on the Paper and Board Trade relates to establishments engaged wholly or mainly in the manufacture of paper and board and of transparent cellulose wrapping or in the coating of paper.

This trade corresponds to minimum list heading 180 in the Standard Industrial Classification.

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.

PAPER AND PRINTING
PAPER AND BOARD 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)	304,704	164,865	135,033	..	129,449	50,598	39,700
Cost of materials and fuel used (d)	193,762	104,139	95,582	..	85,828	30,703	23,193
Payment for work done on materials given out	132	175	49	..	89	43	53
Transport payments (e)	5,683	..	..	..	..	..	..
Net output	105,126	60,551	39,402	..	43,532	19,852	16,454
Wages and salaries of persons employed	30,362	25,397	23,389	..	21,370	..	..
Average number of persons employed (f)	No. 73,690	No. 70,829	No. 68,761	No. ..	No. 66,140	No. 62,852	No. 57,887
Net output per person employed (f)	£ 1,427	£ 855	£ 573	£ ..	£ 658	£ 316	£ 284
Stocks at end of year	£'000	£'000	£'000	£'000	£'000	£'000	£'000
Products on hand for sale and work in progress	9,427	5,822	6,024	..	5,567	..	..
Materials and fuel	46,246	20,870	10,208	..	10,993	..	..
Number of establishments	No. 282	No. 275	No. 281	No. ..	No. 275	No. ..	No. 257

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)	286,890	168,014	136,970	..	122,905(i)	48,532	37,987
Other output (j)	14,195						
Changes in stocks and work in progress (k)	+ 3,619	- 93	+ 396	..	+ 1,121		
	304,704	167,921	137,366	..	131,409	50,598	39,700
Less payment for transport outwards (e)	..	3,057	2,333	..	1,961		
Gross output (production)	304,704	164,865	135,033	..	129,449	50,598	39,700
Materials and fuel used by firms in this trade							
Purchases	219,279	114,688	94,295	..	87,683	30,703	23,193
Changes in stocks (k)	- 25,517	- 10,549	+ 1,287	..	- 1,856		
Materials and fuel used	193,762	104,139	95,582	..	85,828	30,703	23,193

- (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) Excluding outworkers but 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) Corrected figure.
 (j) For details for 1951 and 1948 see Table 10.
 (k) For details for 1951 see Table 21.

TABLE 2

Summary: Small firms (a)

	Great Britain		United Kingdom	Great Britain	
	1951	1950	1949	1949	1948
Number of returns	29	27	32	32	45
Average number of persons employed (b)					
Males	119	131	156	156	182
Females	39	40	34	34	53
Total	158	171	190	190	235

- (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.

TABLE 3

Estimated average employment (a): All firms

	United Kingdom			Great Britain		Number
	1951	1950	1949	1949	1948	
As returned by firms						
Employing on the average more than ten persons (b)	73,690	70,829	68,761	(c)	66,140	
Employing on the average ten or fewer persons (d)	158(e)	171(e)	190	190	235	
Estimated average employment in firms not making satisfactory returns	73,848	71,000	68,951	(c)	66,375	
	16	32	47	47	11	
Estimated average employment in all firms	73,864(e)	71,032(e)	68,998	(c)	66,386	

- (a) Including working proprietors.
 (b) See Tables 13(iv) and 14.
 (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) 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	Net output	Persons employed	Remuneration			Net output per person employed
					Operatives	Other employees (a)	Total	
	No.	£'000	£'000	No.	£'000	£'000	£'000	£
11 - 24	18	1,330	490	369	103	44	147	1,329
25 - 49	36	5,391	1,854	1,334	398	134	532	1,390
50 - 99	58	15,031	5,726	4,264	1,356	351	1,707	1,343
100 - 199	51	31,322	10,603	7,450	2,510	592	3,103	1,423
200 - 299	38	35,248	12,140	9,256	2,918	834	3,752	1,312
300 - 399	27	38,778	12,555	9,318	3,088	624	3,713	1,347
400 - 499	16	26,933	10,159	7,298	2,407	673	3,080	1,392
500 - 749	19	41,258	15,007	11,340	3,552	795	4,347	1,323
750 - 999	11	37,227	11,736	9,575	3,358	723	4,081	1,226
1,000 - 1,499	4	22,251	6,607	4,678	1,549	454	2,003	1,412
1,500 and over	4	49,934	18,249	8,808	3,137	762	3,899	2,072
Total	282	304,704	105,126	73,690	24,376	5,987	30,362	1,427

- (a) Administrative, technical and clerical employees.

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	11	7,985	2,755	2.6	2,290	697	155	852	1,203
East and West Ridings	16	8,796	4,105	3.9	2,764	861	183	1,044	1,485
North Midland	14	5,792	2,335	2.2	1,090	348	81	429	2,141
Eastern	9	21,400	7,648	7.3	4,857	1,827	536	2,363	1,575
London and South Eastern	61	104,370	31,913	30.4	18,584	6,451	1,368	7,819	1,717
Southern	14	12,113	4,889	4.7	4,181	1,416	463	1,879	1,169
South Western	25	24,048	10,161	9.7	6,774	2,119	766	2,885	1,500
Midland	10	6,023	2,494	2.4	2,150	707	183	890	1,160
North Western; and Northern Ireland	66	55,219	19,677	18.7	13,833	4,786	1,103	5,889	1,422
Total England and Northern Ireland	226	245,747	85,976	81.8	56,523	19,212	4,838	24,049	1,521
Wales	6	6,095	1,746	1.7	2,081	629	132	762	839
Scotland	50	52,862	17,404	16.6	15,086	4,535	1,017	5,552	1,154
United Kingdom	282	304,704	105,126	100.0	73,690	24,376	5,987	30,362	1,427

(a) Administrative, technical and clerical employees.

Analysis according to specialisation within the trade, 1951

Larger establishments in the United Kingdom

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 Transparent cellulose wrappings	5	9,824	9,009	4,404	3,245	935	461	1,396	1,357
Uncoated printing paper other than newsprint	22	34,457	24,749	11,163	7,667	2,633	490	3,123	1,456
Writing paper	17	17,926	12,648	6,200	5,216	1,618	420	2,038	1,189
Greaseproof, etc.	4	4,304	3,858	1,497	873	272	80	352	1,714
Other packings and wrappings	49	58,243	45,294	19,936	10,242	3,589	813	4,402	1,946
Board, other than coated	43	30,727	21,215	12,582	9,244	3,276	988	4,264	1,361
Oiled, waxed and other waterproof wrappings	20	14,595	13,148	4,423	2,884	897	406	1,303	1,534
Maker coaters	7	13,440	8,633	5,678	3,434	1,230	289	1,519	1,654
Coaters only	30	14,509	12,705	5,041	4,142	1,268	417	1,685	1,217
Remainder of the trade	85	106,679		34,202	26,743	8,658	1,621	10,279	2,800
Total	282	304,704		105,126	73,690	24,376	5,987	30,362	1,427

(a) Administrative, technical and clerical employees.

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Total make of intermediate products

Larger establishments

TABLE 7

	Returned in this trade		Returned in all trades			
	United Kingdom 1951		Great Britain 1948	United Kingdom 1951		Great Britain 1948
	Quantity	Entries	Quantity	Quantity	Entries	Quantity
	Th. tons	No.	Th. tons	Th. tons	No.	Th. tons
Paper, other than coated						
Machine glazed						
Weighing 10 lb. or more to the standard ream	230.0	50	140.4	248.3	54	140.4
Weighing less than 10 lb. to the standard ream	17.6	8				
Other than machine glazed						
Weighing 10 lb. or more to the standard ream	1,655.3	144	1,064.6	1,681.3	150	1,066.8
Weighing less than 10 lb. to the standard ream	24.0	13				
Board, other than coated						
Machine glazed	61.4	11	13.7	61.4	11	13.7
Other than machine glazed	654.4	60	479.6	660.8	63	487.3

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
Paper, other than coated					
Machine glazed					
Kraft	46.7	6,957	13	29.3	2,017
Imitation kraft	27.9	2,795	19	17.3	857
Poster, fully bleached	13.2	2,031	13	4.4	345
Pure sulphite weighing 10 lb. or more to the standard ream	35.7	5,404	24	14.9	1,097
All tissue, sulphite, mechanical and other, weighing less than 10 lb. to the standard ream	13.9	2,254	6	11.7	973
Envelope	24.0	2,958	18	18.5	1,148
Manilla (other than envelope)	12.4	2,014	10	10.9	879
Other machine glazed uncoated paper					
Packing and wrapping	19.7	1,802	21	18.9	930
Other descriptions	43.8	6,819	25	12.9	721
Other than machine glazed					
Hand-made and mould-made papers					
Writing and drawing	0.5	257	6	0.4	149 (a)
Writing (other than hand-made and mould-made)	139.8	22,677	49	133.4	13,108
Printing paper					
Wallpaper long elephants (i.e., base paper for wallpaper)	38.6	2,742	17	23.3	1,126
Newsprint					
In rolls	521.0	27,952	11	284.2	12,227
In sheets	8.8	485	7	6.3	307

(97946/1)

TABLE 8 (contd.)

	United Kingdom 1951			Great Britain 1948	
	Quantity	Value	Entries	Quantity	Value
	Th. tons	£'000	No.	Th. tons	£'000
Paper, other than coated (contd.)					
Other than machine glazed (contd.)					
Printing paper (contd.)					
Hand-made, mould-made and other uncoated printing paper	369.7	38,452	63	273.7	20,874
Kraft	127.6	18,432	18	93.2	6,105
Imitation kraft	12.7	1,186	18	12.5	570
Genuine vegetable parchment	14.2	2,522	..	12.8	1,458
Glazed imitation parchment	12.9	2,285	14	8.7	775
Grease-proof and imitation grease-proof paper	7.8	1,169	10	14.0	1,149 (b)
Glazed transparent paper	7.5	1,490	6	..	28
Body paper for vulcanising				3.4	372
Strawpaper and strawboard weighing not more than 90 lb. to the standard ream	116.9	5,643	21	68.8	1,960
Blotting paper (including filter paper)	5.1	1,582	15	4.0	734
Cigarette paper in bobbins, reels or sheets	7.1	2,139	..	5.9	1,472
Carbonising tissue	3.1	1,161	5	2.5	681
Raw base paper for sensitising with silver salts or other solutions	13.0	2,341	8	9.3	1,060
Uncoated paper not specified above					
Weighing 10 lb. or more to the standard ream					
Packing and wrapping papers	59.1	5,241	43	34.5	1,381
Other	127.5	17,555	60	59.7	4,370
Weighing less than 10 lb. to the standard ream	11.8	2,668	8	5.5	669
Unclassified by weight	-	-	-	3.6	610
Total paper, other than coated	1,841.8	191,011	..	1,198.5	80,123
Board, other than coated					
Machine glazed	11.0	908	7	14.1	782
Other than machine glazed					
Folding boxboard	114.3	6,669	8	109.0	3,708
Kraft board in reels	51.2	4,108	..	45.1	2,107
Strawboard or chipboard (including container middles) weighing more than 90 lb. to the standard ream					
Lined	81.7	3,580	11	65.2	1,635
Other	131.1	4,708	23	88.5	1,977
Electrical insulating pressboard	3.4	660	..	2.7	359
Boot and shoe board	15.9	1,200	16	13.6	641
Fibre building board (all types)	48.3	2,223	7	15.0	737
Other uncoated board	98.8	8,408	45	107.3	5,169
				..	80
Total board, other than coated	555.7	32,465	..	460.4	17,113
				..	896
Paper, coated (excluding paper hangings and waterproof wrappings)					
Coated with metal coating on one or both sides (embossed or other)	5.7	2,301	18	3.1	658
Coated with white or coloured coating on both sides (other than embossed)	74.6	11,408	26	43.0	4,288

(97946/1)

TABLE 8 (contd.)

	United Kingdom 1951			Great Britain 1948	
	Quantity	Value	Entries	Quantity	Value
	Th. tons	£'000	No.	Th. tons	£'000
Paper, coated (excluding paper hangings and waterproof wrappings) (contd.)					
Coated with white or coloured coating on one side only (other than embossed)	33.8	6,786	33	22.4	3,227
Other coated paper (including embossed)	14.7	3,400	22	10.1	1,771
Total paper coated	128.8	23,895	..	78.6	9,944
Board, coated (excluding paper hangings)					
Coated with white or coloured coating on both sides (other than embossed)	5.1	917	16	2.8	312
Coated with white or coloured coating on one side only (other than embossed)	51.3	5,259	24	31.2	2,204
Other coated board (including embossed)	3.9	731	12	3.3	319
Total board coated	60.2	6,907	..	37.3	2,835
Transparent cellulose wrappings in sheets or rolls	19.6	9,009	..	15.8	4,622
Manufactures of paper and board					
Roofing and flooring felt paper	34.1	2,097	7	..	(d)
Oiled, waxed and other waterproof wrappings, not elsewhere specified	84.3	16,251	44	48.0	5,606
Laminated and reinforced (e.g., cloth lined) paper (excluding bituminised laminated kraft) (e)	9.6	1,632	8	2.6	335
Laminated and reinforced (e.g., cloth lined) board (e)	22.2	2,269	13	6.8	831
Other manufactures of paper and board					
Of paper	0.3	130	5	13.7	626
Of board	-	-	-	2.6	130
Unclassified	-	-	-	..	17
Wood pulp (e)	114.9 (f)	3,525	..	-	51
Straw pulp (e)	10.8	610	..	-	-
Waste products	..	358	65	..	82
Work done for the trade or on commission (g)					
Paper coating		386	10		227
Other		332	33		722
Total		290,877	..		124,428
Sales in other trades (see Table 9)		3,987	..		1,523
Principal products of this trade sold by establishments in the trade		286,890	269		122,905

(a) Excluding drawing paper.

(b) Described as 'Greaseproof and natural tracing paper'.

(c) Included in the figures shown for 'Uncoated paper not specified above - unclassified by weight'.

(d) Included in the figures shown for 'other' manufactures of paper.

(e) So far as recorded separately.

(f) Air-dry weight.

(g) Amount charged.

(97946/1)

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

Larger establishments

TABLE 9

	United Kingdom 1951			Great Britain 1948	
	Quantity	Value	Entries	Quantity	Value
Paper, other than coated	Th. tons	£'000	No.	Th. tons	£'000
Machine glazed	0.7	43	..	-	-
Other than machine glazed					
Imitation kraft	-	-	-	0.4	14
Grease-proof and imitation grease-proof				-	-
Strawpaper and strawboard weighing not more than 90 lb. to the standard ream				0.4	10
Uncoated paper not specified above	2.0	148	..		
Weighing 10 lb. or more to the standard ream					
Packing and wrapping papers				1.4	62
Other	-	-	-	0.4	11
Total paper, other than coated	2.7	191	..	2.6	96
Board, other than coated					
Other than machine glazed					
Fibre building board	-	-	-	0.2	10
Strawboard or chipboard (including container middles) weighing more than 90 lb. to the standard ream					
Other than lined	-	-	-	5.5	121
Lined					
Other uncoated board	6.4	441	6	2.2	102
Total board, other than coated	6.4	441	6	7.9	233
Paper, coated (excluding paper hangings and waterproof wrappings)					
Coated with metal coating on one or both sides (embossed or other)	1.8	1,037	7	0.3	107
Other coated paper (including embossed)				0.2	75
Total paper, coated	1.8	1,037	7	0.5	183
Transparent cellulose wrappings in sheets or rolls	-	-	-	-	2
Manufactures of paper and board					
Oiled, waxed and other waterproof wrappings, not elsewhere specified	5.2	1,250	20	1.6	248
Other manufactures of paper and board	5.1	872	11	4.1	441
Work done for the trade or on commission (a)		196	..	..	182
Total	21.2	3,987	..		1,523

(a) Amount charged.

Sales in the trade of other than principal products

Larger establishments

TABLE 10

	United Kingdom 1951		Great Britain 1948	
	Quantity	Value	Quantity	Value
	Th. cwts.	£'000	Th. cwts.	£'000
Paper bags	219.0	1,454	265.1	849 (a)
Toilet paper prepared for retail sale			46.2	309
Purchased paper, corrugated, creped, crinkled, gummed, etc.	122.4	1,037	..	360
Other manufactures of paper and board	..	52	..	4,512
Bags and wrappers manufactured from transparent cellulose wrappings	..	8,929	..	689
Cellulose wadding and articles manufactured therefrom	13.1	529	..	623
Other goods	55.4	516	..	41
Electricity and steam sold (b)	..	500	..	
Work done (c)	..	1,106	..	
Total		71		14,195
				7,384

(a) Described as 'Paper bags and sacks'.

(b) So far as recorded separately.

(c) Amount charged.

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

TABLE 11

		Production (b) (c)	Exports	Retained imports
		Th. tons	Th. tons	Th. tons
Paper, other than coated				
Machine glazed				
Kraft	{ 1951	46.7	..	56.6
	{ 1948	28.9	..	33.6
Imitation kraft	{ 1951	27.9	..	3.1
	{ 1948	18.7	..	0.3
Total kraft and imitation kraft	{ 1951	74.6	0.3	59.7
	{ 1948	47.6	0.4	33.9
	{ 1937	39.2	0.3	76.0
Poster, fully bleached	{ 1951	13.2	0.3	-
	{ 1948	4.5	0.5	-
Pure sulphite weighing 10 lb. or more to the standard ream	{ 1951	35.7	-	37.4
	{ 1948	15.3	0.8	19.7
	{ 1937	24.2	0.1	70.1
All tissue, sulphite, mechanical and other, weighing less than 10 lb. to the standard ream	{ 1951	13.9	1.2	20.7
	{ 1948	11.6	0.9	10.4
Other than machine glazed				
Writing paper	{ 1951	140.2 (d)	7.7 (e)	8.7
	{ 1948	135.5	11.8 (e)	5.5 (e)
	{ 1937	169.9	15.4 (e)	8.8 (e)
Printing paper				
Newsprint in rolls	{ 1951	521.0	95.2	171.5
	{ 1948	289.5	19.7	126.0
Other	{ 1951	378.5	36.4	9.6
	{ 1948	281.5	22.2	0.5
Kraft	{ 1951	127.6	..	45.2
	{ 1948	94.1	..	21.2

TABLE 11 (contd.)

		Production (b) (c)	Exports	Retained imports
		Th. tons	Th. tons	Th. tons
Paper, other than coated (contd.)				
Other than machine glazed (contd.)				
Imitation kraft	{ 1951 1948	12.7 12.9	.. ..	2.0 -
Total kraft and imitation kraft	{ 1951 1948 1937	140.3 107.0 141.5	0.9 0.7 1.8	47.2 21.2 38.1
Genuine vegetable parchment	{ 1951 1948	14.2 13.0	3.3 3.6	0.2 -
Glazed imitation parchment	{ 1951 1948	12.9 8.6	0.2 0.1	1.4 1.1
Grease-proof and imitation grease-proof paper	{ 1951 1948	7.8 ..	0.3(f) 0.1	26.5 21.3
Strawpaper and strawboard weighing not more than 90 lb. to the standard ream	{ 1951 1948 1937	116.9 69.0 51.5	0.2 0.1 0.1	21.0 2.8 2.8
Blotting paper (including filter paper)	{ 1951 1948 1937	5.1 4.2 6.8	1.4 1.2 2.4	- - 0.1
Cigarette paper in bobbins, reels or sheets	{ 1951 1948 1937	7.1 6.1 4.1	2.5 2.1 1.4	1.2 0.5 0.4
Raw base paper for sensitizing	{ 1951 1948	13.0 9.2	1.7 1.0	0.2 0.2
Board, other than coated				
Machine glazed	{ 1951 1948 1937	11.0 13.7 52.3	0.2 0.1 0.2	27.4 7.4 21.6
Other than machine glazed				
Strawboard or shipboard (including container middles) weighing more than 90 lb. to the standard ream				
Lined	{ 1951 1948 1937	81.7 65.2 ..	.. .. 0.1	52.4 19.7 96.7
Other	{ 1951 1948 1937	131.0 88.8 ..	.. .. 0.9	71.8 54.0 145.2
Total strawboard	{ 1951 1948 1937	212.7 154.0 112.4	0.3 0.1 1.0	124.2 73.7 241.9
Electrical insulating pressboard	{ 1951 1948	3.4 2.8	0.8 0.4	0.2 -
Fibre building board (all types)	{ 1951 1948	48.3 ..	1.0 0.7	128.6 48.4
Paper, coated (excluding paper hangings and waterproof wrappings)				
Coated with metal coating on one or both sides (embossed or other)	{ 1951 1948	5.7 2.9	1.0 0.5	- -
Coated with white or coloured coating on both sides (other than embossed)	{ 1951 1948	74.6 42.8	11.7 7.8	0.8 -
Coated with white or coloured coating on one side only (other than embossed)	{ 1951 1948	33.8 21.5	6.2 3.1	1.7 0.4
Board, coated (excluding paper hangings)	{ 1951 1948 1937	60.2 43.0 30.5	3.8 3.5 2.6	6.6 4.6 27.2

TABLE 11 (contd.)

		Production (b) (c)	Exports	Retained imports
		Th. tons	Th. tons	Th. tons
Transparent cellulose wrappings in sheets or rolls	{ 1951 1948 1937	19.6 15.9 5.3	8.5(g) 8.4(g) 0.7	0.6(g) - 1.2
Oiled, waxed and other waterproof wrappings, not elsewhere specified	{ 1951 1948 1937	84.3(h) 39.7(i) 29.6	2.0 1.4 2.8	0.5 0.5 0.7

(a) Figures of production (or sales) refer only to larger establishments in the United Kingdom (1951 and 1937) 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 in 1951, production whether for sale or not in 1948 and production for sale in 1937.

(c) Including production (or sales) by establishments classified to other trades.

(d) Described as 'Writing and drawing paper'.

(e) Described as 'Writing paper, in large sheets'.

(f) Described as 'Grease-proof paper'.

(g) Described as 'Transparent cellulose wrappings'.

(h) Including bituminised laminated kraft so far as recorded separately.

(i) Sales.

Usage of certain specified purchased materials, 1951

Larger establishments in the United Kingdom

TABLE 12

Materials used	Quantity
	Th. lbs.
Cotton waste	1,863
Cotton linters	10,922

TABLE 13
Employment in September
Larger establishments (a)

	Number						
	United Kingdom			Great Britain		United Kingdom	
	1951(b)	1950(b)	1949(b)	1949(c)	1948(d)	1937(d)	1935(d)
Males							
Under 18	2,774	2,737	2,128	..	2,070	3,365	2,650
All ages	51,756	50,227	47,017	..	46,301	43,862	40,368
Females							
Under 18	2,661	2,477	2,297	..	2,416	4,475	3,372
All ages	13,268	12,807	12,060	..	11,975	13,573	12,541
Total							
Under 18	5,435	5,214	4,425	..	4,486	7,840	6,022
All ages	65,024	63,034	59,077	..	58,276	57,435	52,909

(continued overleaf)

TABLE 13 (contd.)

(ii) Administrative, technical and clerical employees (e)								Number
	United Kingdom			Great Britain		United Kingdom		
	1951	1950	1949	1949(c)	1948	1937	1935	
	Males							
Under 18	233	248	166	..	186	307	242	
All ages	6,319	6,204	5,965	..	5,425	3,987	3,721	
Females								
Under 18	590	560	444	..	429	269	181	
All ages	2,939	2,720	2,583	..	2,424	1,430	1,257	
Total								
Under 18	823	808	610	..	615	576	423	
All ages	9,258(f)	8,924(f)	8,548(f)	..	7,849(f)	5,417	4,978	

(iii) Total employees								Number
	United Kingdom			Great Britain		United Kingdom		
	1951	1950	1949	1949(c)	1948	1937	1935	
	Males							
Under 18	3,007	2,985	2,294	..	2,256	3,672	2,892	
All ages	58,075	56,431	52,982	..	51,726	47,849	44,089	
Females								
Under 18	3,251	3,037	2,741	..	2,845	4,744	3,553	
All ages	16,207	15,527	14,643	..	14,399	15,003	13,798	
Total								
Under 18	6,258	6,022	5,035	..	5,101	8,416	6,445	
All ages	74,282(f)	71,958(f)	67,625(f)	..	66,125(f)	62,852	57,887	

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

Canteen workers 79 Males 549 Females
Other workers 221 Males 85 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						Number
	United Kingdom			Great Britain		
	1951	1950	1949	1949	1948	
	Males	13	12	20	..	15
Females	-	-	-	-	-	
Total	13	12	20	..	15	

Average employment
Larger establishments (a)

	United Kingdom						United Kingdom	
	United Kingdom			Great Britain		United Kingdom		
	1951	1950	1949	1949(b)	1948	1937	1935	
Operatives	64,479	62,041	60,299	..	58,276	57,435	52,909	
Administrative, technical and clerical employees	9,198	8,776	8,442	..	7,849(c)	5,417(c)	4,978(c)	
Total	73,677	70,817	68,741	..	66,125	62,852	57,887	

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

Outworkers. In addition to the employees shown above the firms in this trade employed outworkers whose numbers are shown below.

	United Kingdom			Great Britain		United Kingdom	
	1951	1950	1949	1949	1948	1937	1935
	Males	13	1	-	-	-	..
Females	99	106	86	86	11	..	..
Total	112	107	86	86	11	..	..

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

	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	148,314	1,180,234	164
Continuous 4 shift systems per 24 hours averaging 6 hours per shift	-	-	-
All 2 shift systems	15,578	179,359	48
Other shift systems	245	2,378	7
Total	164,137	1,361,970	(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	..	194	..	59,847	28,572
Percentage of total in trade	100.0	73.0(c)	100.0	92.0(c)	44.0(c)
Percentage of total on returns showing shift-work				100.0	47.7

(c) 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	24,376	20,599	19,024	..	17,325
Administrative, technical and clerical employees	5,987	4,798	4,366	..	4,045
Total	30,362	25,397	23,389	..	21,370
Employers' contributions to all National Insurance Schemes	721	682	660	..	523

(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, but excluding payments to outworkers shown below.

United Kingdom			Great Britain	
1951	1950	1949	1949	1948
9	6	4	4	1

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	6,790	5,464	..	4,176
Second-hand	203	127	..	145
Vehicles				
New	318	138	..	162
Second-hand	80	26	..	34
Total acquisitions	7,391	5,755	..	4,517
Disposals				
Plant and machinery	156	231	..	165
Vehicles	45	17	..	17
Total disposals	200	249	..	182
New building work				
Capital expenditure on new building and other constructional work of a capital nature (excluding site values and development charges)	1,977	945	..	741

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

1951

Summary

Larger establishments

	England (a)	Wales	Scotland	Great Britain	Northern Ireland (a)	United Kingdom
Gross output (production)	£'000 245,747	£'000 6,095	£'000 52,862	£'000 ..	£'000 ..	£'000 304,704
Cost of materials and fuel used	155,546	4,190	34,026	..	..	193,762
Payment for work done on materials given out	125	3	4	..	..	132
Transport payments	4,100	156	1,427	..	..	5,683
Net output	85,976	1,746	17,404	..	..	105,126
Wages and salaries of persons employed	24,049	762	5,552	..	..	30,362
Average number of persons employed (b)	No. 56,523	No. 2,081	No. 15,086	No. ..	No. ..	No. 73,690
Net output per person employed (b)	£ 1,521	£ 839	£ 1,154	£ ..	£ ..	£ 1,427
Stocks at end of year	£'000	£'000	£'000	£'000	£'000	£'000
Products on hand for sale and work in progress	7,553	228	1,646	..	..	9,427
Materials and fuel	39,245	758	6,243	..	..	46,246
Number of establishments	No. 226	No. 6	No. 50	No. ..	No. ..	No. 282

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)	242,728	6,084	52,273	..	..	301,085
Changes in stocks and work in progress (see Table 21)	+ 3,019	+ 11	+ 589	..	..	+ 3,619
Gross output (production)	245,747	6,095	52,862	..	..	304,704
Materials and fuel used by firms in this trade						
Purchases	177,785	4,482	37,011	..	..	219,279
Changes in stocks (see Table 21)	- 22,239	- 293	+ 2,985	..	..	- 25,517
Materials and fuel used	155,546	4,190	34,026	..	..	193,762

(a) Owing to the risk of disclosure of information relating to individual firms, particulars for Northern Ireland, where net output was about 0.6 per cent. of that of the United Kingdom, cannot be given separately and have been included with those for England.

(b) Excluding outworkers but including working proprietors.

Summary

Small firms in Great Britain (a)

	England	Wales	Scotland	Great Britain
Number of returns	27	-	2	29
Average number of persons employed (b)				
Males	110	-	9	119
Females	34	-	5	39
Total	144	-	14	158

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

(b) Including working proprietors.

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	Th. tons	£'000	Th. tons	£'000		£'000	Th. tons	£'000
Principal products										
Paper, other than coated										
Machine glazed										
Kraft	43.0	6,518	3.6	438	46.7	6,957	-	-	46.7	6,957
Poster, fully bleached	..	(a)	..	(a)	..	..	..	(a)	13.2	2,031
Pure sulphite weighing 10 lb. or more to the standard ream	30.9	4,708	4.8	695	35.7	5,404	-	-	35.7	5,404
All tissue, sulphite, mechanical and other, weighing less than 10 lb. to the standard ream	13.9	2,254	-	-	13.9	2,254	-	-	13.9	2,254
Envelope	19.9	2,385(b)	4.1	573	..	..	..	(b)	24.0	2,958
Manilla (other than envelope)	2.9	372	9.5	1,641	12.4	2,014	-	-	12.4	2,014
Other machine glazed uncoated paper										
Packing and wrapping	..	(a)	..	(a)	..	..	..	(a)	19.7	1,802
Other descriptions (including imitation kraft)	47.6	6,467(b)	23.5	3,103	..	..	..	(b)	71.0	9,570
Other than machine glazed										
Hand-made and mould-made papers										
Writing and drawing	0.5	257	-	-	0.5	257	-	-	0.5	257
Writing (other than hand-made and mould-made)	90.5	15,693	49.2	6,984	139.8	22,677	-	-	139.8	22,677
Printing paper										
Wallpaper long elephants (i.e., base paper for wallpaper)	..	(a)	..	(a)	38.6	2,742	-	-	38.6	2,742
Newsprint										
In rolls	..	(a)	..	(a)	521.0	27,952	-	-	521.0	27,952
In sheets	..	(a)	..	(a)	8.8	485	-	-	8.8	485
Hand-made, mould-made and other uncoated printing paper	292.9	27,996	76.8	10,456	369.7	38,452	-	-	369.7	38,452
Kraft	..	(a)	..	(a)	127.6	18,432	-	-	127.6	18,432
Imitation kraft	..	(a)	..	(a)	12.7	1,186	-	-	12.7	1,186
Genuine vegetable parchment	14.2	2,522	-	-	14.2	2,522	-	-	14.2	2,522

PAPER AND PRINTING COUNTRY TABLES

Glazed imitation parchment	12.9	2,285	-	-	12.9	2,285	-	-	12.9	2,285
Glazed transparent paper	..	(a)	..	(a)	7.5	1,490	-	-	7.5	1,490
Body paper for vulcanizing										
Grease-proof paper and imitation grease-proof paper										
Strawpaper and strawboard weighing not more than 90 lb. to the standard ream	174.7	11,428	7.1	476	181.7	11,905	-	-	181.7	11,905
Packing and wrapping papers weighing 10 lb. or more to the standard ream										
Blotting paper (including filter paper)	3.5	1,204	1.6	378	5.1	1,582	-	-	5.1	1,582
Cigarette paper in bobbins, reels or sheets	7.1	2,139	-	-	7.1	2,139	-	-	7.1	2,139
Carbonising tissue	3.1	1,161	-	-	3.1	1,161	-	-	3.1	1,161
Raw base paper for sensitising with silver salts or other solutions	12.1	2,200	1.0	141	13.0	2,341	-	-	13.0	2,341
Uncoated paper not specified above										
Weighing 10 lb. or more to the standard ream										
Other than packing and wrapping papers	85.9	10,354	41.6	7,201	127.5	17,555	-	-	127.5	17,555
Weighing less than 10 lb. to the standard ream	11.8	2,668	-	-	11.8	2,668	-	-	11.8	2,668
Total paper, other than coated	1,573.8	155,359(b)	265.4	35,461	..	..		(b)	1,839.1	190,819
Board, other than coated										
Machine glazed	8.5	520	2.5	388	11.0	908	-	-	11.0	908
Other than machine glazed										
Folding boxboard	..	(a)	..	(a)	114.3	6,669	-	-	114.3	6,669
Kraft board in reels	51.2	4,108	-	-	51.2	4,108	-	-	51.2	4,108
Strawboard or chipboard (including container middles) weighing more than 90 lb. to the standard ream										
Other than lined	..	(a)	..	(a)	131.1	4,708	-	-	131.1	4,708
Electrical insulating pressboard	..	(a)	..	(a)	3.4	660	-	-	3.4	660
Boot and shoe board	15.9	1,200	-	-	15.9	1,200	-	-	15.9	1,200
Fibre building board (all types)	..	(a)	..	(a)	48.3	2,223	-	-	48.3	2,223

PAPER AND BOARD COUNTRY TABLES

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TABLE 20 (contd.)

	England and Wales		Scotland		Great Britain		Northern Ireland		United Kingdom	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000		£'000	Th. tons	£'000
Principal products (contd.)										
Board, other than coated (contd.)										
Other than machine glazed (contd.)										
Strawboard or chipboard (including container middles) weighing more than 90 lb. to the standard ream										
Lined										
Other uncoated board	148.8	8,703	25.3	2,844	174.1	11,547	-	-	174.1	11,547
Total board, other than coated	499.9	27,973	49.5	4,052	549.4	32,025	-	-	549.4	32,025
Paper, coated (excluding paper hangings and waterproof wrappings)										
Coated with white or coloured coating on both sides (other than embossed)	36.0	4,772	38.6	6,637	74.6	11,408	-	-	74.6	11,408
Coated with white or coloured coating on one side only (other than embossed)	18.7	3,847	15.1	2,939	33.8	6,786	-	-	33.8	6,786
Coated with metal coating on one or both sides (embossed or other)	16.5	4,245	2.1	419	18.6	4,664	-	-	18.6	4,664
Other coated paper (including embossed)										
Total paper, coated	71.3	12,863	55.7	9,995	127.0	22,858	-	-	127.0	22,858
Board, coated (excluding paper hangings)										
Coated with white or coloured coating on both sides (other than embossed)	3.0	540	2.1	377	5.1	917	-	-	5.1	917
Coated with white or coloured coating on one side only (other than embossed)	50.0	5,061	1.3	198	51.3	5,259	-	-	51.3	5,259
Other coated board (including embossed)	..	(a)	..	(a)	3.9	731	-	-	3.9	731
Total board, coated		(a)		(a)	60.2	6,907	-	-	60.2	6,907
Transparent cellulose wrappings in sheets or rolls	19.6	9,009	-	-	19.6	9,009	-	-	19.6	9,009
Manufactures of paper and board										
Oiled, waxed and other waterproof wrappings, not elsewhere specified	71.7	14,484	7.3	516	79.0	15,001	-	-	79.0	15,001
Other manufactures of paper and board	..	(a)	..	(a)	..	..	..	(a)	61.1	5,255

Wood pulp (c)	114.9(d)	3,525	-	-	114.9(d)	3,525	-	-	114.9(d)	3,525
Straw pulp (c)	10.8	610	-	-	10.8	610	-	-	10.8	610
Waste products	..	321	..	36	..	358	-	-	..	358
Work done for the trade or on commission (e)		(a)		(a)		523		-		523
Total principal products		236,010(b)		50,880	..	..		(b)		286,890
Other output	Th.cwts.		Th.cwts.		Th.cwts.				Th.cwts.	
Paper bags	85.3	567	133.7	887	219.0	1,454	-	-	219.0	1,454
Toilet paper prepared for retail sale										
Purchased paper, corrugated, creped, crinkled, gummed, etc.	..	(a)	..	(a)	122.4	1,037	-	-	122.4	1,037
Other manufactures of paper and board	..	8,686	..	243	..	8,929	-	-	..	8,929
Bags and wrappers manufactured from transparent cellulose wrappings	13.1	529	-	-	13.1	529	-	-	13.1	529
Cellulose wadding and articles manufactured therefrom	55.4	516	-	-	55.4	516	-	-	55.4	516
Other goods	..	375	..	125	..	500	-	-	..	500
Electricity and steam sold (c)	..	(a)	..	(a)	..	1,106	-	-	..	1,106
Work done (e)		(a)		(a)		71		-		71
Total		248,812(b)		52,273		..		(b)		301,085

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

(b) 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.

(c) So far as recorded separately.

(d) Air-dry weight.

(e) Amount charged.

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

Larger establishments

		£'000				
		England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Products on hand for sale	{ at beginning of year	3,819(a)	862	..	(a)	4,681
	{ at end of year	6,399(a)	1,332	..	(a)	7,731
Work in progress	{ at beginning of year	932	195	1,127	-	1,127
	{ at end of year	1,382	314	1,696	-	1,696
Total products on hand for sale and work in progress	{ at beginning of year	4,751(a)	1,057	..	(a)	5,808
	{ at end of year	7,781(a)	1,646	..	(a)	9,427
Materials and fuel	{ at beginning of year	17,471(a)	3,258	..	(a)	20,729
	{ at end of year	40,003(a)	6,243	..	(a)	46,246

(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.

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.

(i) Operatives		Number				
		England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Males	Under 18	2,084	690	..	..	2,774
	All ages	42,000	9,756	..	..	51,756
Females	Under 18	1,755	906	..	..	2,661
	All ages	9,546	3,722	..	..	13,268
Total	Under 18	3,839	1,596	..	..	5,435
	All ages	51,546	13,478	..	..	65,024

(ii) Administrative, technical and clerical employees

		Number				
		England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Males	Under 18	202	31	233	-	233
	All ages	5,247	1,072	..	..	6,319
Females	Under 18	486	104	..	..	590
	All ages	2,369	570	..	..	2,939
Total	Under 18	688	135	..	..	823
	All ages (c)	7,616	1,642	..	..	9,258

TABLE 22 (contd.)

(iii) Total employees

		Number				
		England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Males	Under 18	2,286	721	..	..	3,007
	All ages	47,247	10,828	..	..	58,075
Females	Under 18	2,241	1,010	..	..	3,251
	All ages	11,915	4,292	..	..	16,207
Total	Under 18	4,527	1,731	..	..	6,258
	All ages (c)	59,162	15,120	..	..	74,282

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

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

(c) Working proprietors. In addition working proprietors, shown in Table 22(iv) below, were engaged in this trade in larger establishments.

(iv) Working proprietors

		Number				
		England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Males		11	2	..	..	13
	Females	-	-	-	-	-
Total		11	2	..	..	13

(v) Excluded employees

		Number				
		England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Canteen workers	Males	63	16	79	-	79
	Females	466	83	549	-	549
Total		529	99	628	-	628
Other workers	Males	203	18	221	-	221
	Females	70	15	85	-	85
Total		273	33	306	-	306
Total excluded employees		802	132	934	-	934

Average employment

Larger establishments (a)

		Number				
		England and Wales (b)	Scotland	Great Britain	Northern Ireland (b)	United Kingdom
Operatives		51,035	13,444	..	..	64,479
	Administrative, technical and clerical employees	7,558	1,640	..	..	9,198
Total		58,593	15,084	..	..	73,677

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

(b) 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.

Outworkers: In addition to the employees shown above the firms in this trade employed 13 male and 99 female outworkers (all in England and Wales).

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

TABLE 24 £'000

	England and Wales (a)	Scotland	Great Britain	Northern Ireland (a)	United Kingdom
Wages and salaries (b) of					
Operatives	19,841	4,535	..	..	24,376
Administrative, technical and clerical employees	4,970	1,017	..	..	5,987
Total	24,811	5,552	..	..	30,362
Employers' contributions to all National Insurance Schemes	579	141	..	..	721

(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 but excluding payments, amounting to £9000, to outworkers in England and Wales.

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

Larger establishments

TABLE 25 £'000

	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Plant, machinery and vehicles					
Acquisitions					
Plant and machinery					
New	5,172(a)	1,619	..	(a)	6,790
Second-hand	168	34	203	-	203
Vehicles					
New	245	73	318	-	318
Second-hand	63(a)	16	..	(a)	80
Total acquisitions	5,648(a)	1,743	..	(a)	7,391
Disposals					
Plant and machinery					
Vehicles	113	43	156	-	156
	39(a)	6	..	(a)	45
Total disposals	152(a)	49	..	(a)	200
New building work					
Capital expenditure on new building and other constructional work of a capital nature (excluding site values and development charges)	1,654(a)	323	..	(a)	1,977

(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	Scotland	Great Britain	Northern Ireland	United Kingdom
Amounts paid to other firms and undertakings	4,079(a)	1,427	..	(a)	5,683
Amount paid or credited to firms' own separate transport organisations	177				
Total	4,256(a)	1,427	..	(a)	5,683

(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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