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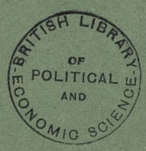
BOARD OF TRADE

**FINAL REPORT**  
on the  
**CENSUS OF PRODUCTION**  
FOR 1948

**Volume 10**

**Trade F**

**PAPER AND BOARD**



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

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In interpreting the data in the following tables, it is essential to bear in mind not only the qualifications mentioned in this report but also the general explanations and qualifications contained in the separate booklet published in this series by H.M. Stationery Office entitled "Final Reports of the Census of Production for 1948: Introductory Notes", price 2s Od. 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.

Establishments in this trade in Northern Ireland (which are excluded in 1948) accounted in 1935 for less than 1 per cent. of the net output for the United Kingdom.

PAPER AND PRINTING  
PAPER AND BOARD TRADE  
Summary  
Larger establishments

TABLE 1

	1948 (a)	1937 (b)	1935 (b)
	£'000	£'000	£'000
Gross output (production)	129,449	50,598	39,700
Cost of materials and fuel used	85,828	30,703	23,193
Payment for work done on materials given out	89	43	53
Net output	43,532	19,852	16,454
Wages and salaries of persons employed	21,370	..	..
Average number of persons employed (c)	No. 66,140(d)	No. 62,852	No. 57,887
Net output per person employed (c)	£ 658	£ 318	£ 284
Stocks at end of year	£'000	£'000	£'000
Finished products and work in progress	5,567	..	..
Materials and fuel	10,993	..	..
	No.	No.	No.
Number of establishments	275	..	257

- (a) Great Britain only.  
(b) United Kingdom.  
(c) Excluding outworkers.  
(d) For an estimate of the total number of persons employed in this trade see Table 3.

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

	1948	1937	1935
	£'000	£'000	£'000
Output of firms in this trade			
Total value of sales (1948) or production (1937 and 1935)			
Principal products (see Table 8)	122,823	48,532	37,987
Other output (see Table 10)	7,466	2,066	1,713
Adjustment for changes in stocks and work in progress (see Table 14)	+ 1,121		
	131,409	50,598	39,700
Less payment for transport by other firms	1,961		
Gross output (production)	129,449	50,598	39,700
Materials and fuel used by firms in this trade			
Purchases (see Table 13)	87,683	30,703	23,193
Adjustment for changes in stocks (see Table 14)	-1,856		
Materials and fuel used	85,828	30,703	23,193

Summary, 1948  
Small firms in Great Britain

TABLE 2

Number of returns	45
Average number of persons employed (a)	
Males	182
Females	53
Total	235

(a) Including working proprietors.

Estimated average employment, 1948  
All firms in Great Britain

TABLE 3

As returned by firms	
Employing on average more than ten persons (a)	66,140
Employing on average ten persons or less (b)	235
	66,375
Estimated average employment in firms not making satisfactory returns	11
Estimated average employment in all firms	66,386

- (a) See Tables 1 and 15.  
(b) See Table 2.

Analysis by size, 1948  
Larger establishments in Great Britain

TABLE 4

Average number employed	Establishments	Gross output	Net output	Persons employed	Remuneration			Net output per person employed
					Wages	Salaries	Total	
	No.	£'000	£'000	No.	£'000	£'000	£'000	£
11-24	20	582	261	383	87	36	123	682
25-49	30	2,139	839	1,096	263	86	349	768
50-99	61	7,775	2,942	4,341	1,067	285	1,352	678
100-199	53	14,386	4,942	7,442	1,876	490	2,365	664
200-299	43	20,058	6,333	10,584	2,694	665	3,359	598
300-399	20	12,621	4,182	6,971	1,762	451	2,213	600
400-499	12	9,832	3,203	5,412	1,389	341	1,730	592
500-749	23	25,769	8,759	13,474	3,628	668	4,294	650
750-999	6	10,970	3,647	5,272	1,488	251	1,738	730
1,000-1,499	3	5,610	2,075	3,434	830	252	1,083	604
1,500 and over	4	19,708	6,149	7,731	2,242	523	2,765	795
Total	275	129,449	43,532	66,140	17,325	4,045	21,370	658

## Analysis by standard region, 1948

## Larger establishments

TABLE 5

Region	Establishments	Gross output	Net output		Persons employed	Remuneration			Net output per person employed
			Value	Percentage of total		Wages	Salaries	Total	
	No.	£'000	£'000		No.	£'000	£'000	£'000	£
England									
Northern	11	3,512	1,144	2.6	2,054	515	114	629	
East and West Ridings of Yorkshire	16	3,248	1,337	3.1	2,342	585	119	704	
North Midlands	11	1,730	494	1.1	834	191	63	254	
Eastern	10	11,114	4,614	10.6	4,406	1,341	395	1,737	
London and South Eastern	56	37,239	10,471	24.1	15,331	4,115	952	5,067	
Southern	15	6,097	2,692	6.2	3,641	1,037	233	1,271	
South Western	25	11,120	4,034	9.3	6,259	1,574	492	2,066	
Midlands	10	2,837	1,159	2.7	1,914	500	132	632	
North Western	67	25,532	8,693	20.0	13,274	3,571	776	4,347	
Total England	221	102,428	34,637	79.6	50,055	13,429	3,278	16,707	
Wales	4	1,966	649	1.5	1,518	412	64	476	
Scotland	50	25,054	8,245	18.9	14,567	3,483	704	4,187	
Great Britain	275	129,449	43,532	100.0	66,140	17,325	4,045	21,370	

## Analysis according to specialisation within the trade, 1948

## Larger establishments in Great Britain

TABLE 6

	Establishments	Gross output	Sales of characteristic products	Net output	Persons employed	Remuneration			Net output per person employed
						Wages	Salaries	Total	
	No.	£'000	£'000	£'000	No.	£'000	£'000	£'000	£
Specialist producers of									
Transparent cellulose wrappings	5	4,793	4,601	2,060	2,966	678	287	964	695
Newsprint	6	12,186	9,447	3,413	3,766	1,105	209	1,314	906
Other uncoated printing paper	34	17,802	13,741	5,586	9,868	2,577	461	3,038	566
Writing paper	23	10,163	7,839	3,325	6,275	1,579	329	1,908	530
Greaseproof, etc.	6	2,257	2,102	614	980	233	54	287	626
Other packings and wrappings	43	20,363	15,394	5,976	9,392	2,587	577	3,164	636
Board	48	20,814	14,489	8,272	10,477	2,919	719	3,639	790
Oiled, waxed and waterproof wrappings	17	4,979	4,811	1,714	1,898	413	230	643	903
Maker coaters	7	6,063	3,707	1,961	3,230	925	197	1,122	607
Coaters only	23	6,470	5,773	2,532	3,234	796	270	1,067	783
Remainder of the trade	63	23,540		8,078	14,054	3,514	711	4,225	575
Total	275	129,449		43,532	66,140	17,325	4,045	21,370	658

## Total make of intermediate products

## Larger establishments

TABLE 7

	Returned in this trade			
	1948(a)		1937(b)	1935(b)
	Quantity	Entries	Quantity	
	Th. tons	No.	Th. tons	Th. tons
Paper, other than coated				
Machine glazed				
Kraft	28.9	16	216.4	178.4
Imitation kraft	18.7	18		
Poster, fully bleached	4.5	13		
Pure sulphite, weighing 10 lb. or more to the standard ream	15.3	19		
Tissue, sulphite and mechanical, weighing less than 10 lb. to the standard ream	10.4	6		
Envelope paper	18.7	16		
Manilla (other than envelope paper)	10.9	10		
Other machine glazed uncoated paper				
Weighing 10 lb. or more to the standard ream				
Packing and wrapping paper	18.8	17		
Other papers	13.0	19		
Weighing less than 10 lb. to the standard ream	1.2	..		
Other than machine glazed				
Writing paper				
Hand-made	0.3	..		
Mould-made	0.1	5		
Other	135.1	61		
Printing paper				
Newsprint				
In rolls	289.5	12		
In sheets	6.2	9		
Wallpaper long elephants (i.e., base paper for wallpaper)	22.9	16		
Hand-made, mould-made, and other uncoated printing paper	275.3	76		
Kraft	94.1	16		
Imitation kraft	12.9(c)	19		
Genuine vegetable parchment	13.0	..		

TABLE 7 (contd.)

	Returned in this trade			
	1948(a)		1937(b)	1935(b)
	Quantity	Entries	Quantity	
	Th. tons	No.	Th. tons	Th. tons
Paper, other than coated (contd.)				
Other than machine glazed (contd.)				
Glazed imitation parchment	8.6	15		
Greaseproof paper				
Unbleached	6.6	..		
Imitation	5.4	6		
Glazed transparent paper	3.3	..		
Strawpaper and strawboard weighing not more than 90 lb. to the standard ream	69.0(d)	21	1,872.8	1,684.7
Blotting paper				
Filter	0.9	10		
Other	3.3	9		
Cigarette paper in bobbins, reels or sheets	6.1	5		
Carbonising tissue	2.5	5		
Raw base paper for sensitising	9.2	11		
Body papers for abrasives	1.5	6		
Tube papers	5.0	..		
Uncoated paper not specified above (e)				
Weighing 10 lb. or more to the standard ream				
Packing and wrapping papers	35.9(f)	44		
Other	52.9	45		
Weighing less than 10 lb. to the standard ream				
Sulphite and mechanical	3.7	..		
Other	1.7	..		
Board, other than coated				
Machine glazed	13.7	9	41.3	22.3
Other than machine glazed				
Strawboard or chipboard (including container middles) weighing more than 90 lb. to the standard ream				
Lined	65.2	10		
Other	88.8(g)	27		

TABLE 7 (contd.)

	Returned in this trade			
	1948(a)		1937(b)	1935(b)
	Quantity	Entries	Quantity	
	Th. tons	No.	Th. tons	Th. tons
Board, other than coated (contd.)				
Other than machine glazed (contd.)				
Electrical insulating pressboard	2.8	5		
Textile pressboard	0.3	..		
Folding boxboard	119.8	6		
Boot and shoe board	14.2	13	437.4	355.1
Trunk and suitcase board	2.3	9		
Other uncoated board (h)				
Boards for packing	3.0(1)	6		
Other uncoated boards	84.4(j)	34		
Paper, coated (excluding paper hangings and waterproof wrappings)				
Coated with white or coloured coating on both sides (other than embossed)	42.8	21		
Coated with white or coloured on one side only (other than embossed)	21.5	25		
Coated with metal coating on one or both sides (embossed or other)	2.9(k)	13		
Other coated paper	10.7(l)	26		
Board, coated (excluding paper hangings)			(m)	(m)
Coated with white or coloured coating on both sides (other than embossed)	2.9	13		
Coated with white or coloured coating on one side only (other than embossed)	36.4	20		
Other coated board (including embossed)	3.6	9		
Transparent cellulose wrappings in sheets or rolls	15.9	..		

(a) Great Britain only.

(b) United Kingdom.

(c) Including 400 tons returned in other trades.

(d) Including 400 tons returned in other trades.

(e) Excluding, in 1948 only, bleached greaseproof paper, natural tracing paper, electrical condenser or pottery tissue, felt base for the manufacture of roofing and other felts (weighing not more than 90 lb. to the standard ream), and body papers for vulcanising.

(f) Including 1,400 tons returned in other trades.

(g) Including 5,500 tons returned in other trades.

(h) Excluding, in 1948 only, woodpulp board (non-bending), kraftboard in reels, matrix board, leatherboard and imitation leatherboard, fibre building board, and felt base for the manufacture of roofing and other felts (weighing more than 90 lb. to the standard ream).

(i) Including 300 tons returned in other trades.

(j) Including 1,900 tons returned in other trades.

(k) Including 300 tons returned in other trades.

(l) Including 200 tons returned in other trades, but excluding baryta-coated paper for sensitising with silver salts.

(m) Not recorded separately.

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

## Larger establishments

TABLE 8

	1948(a)		Entries	1937(b)		1935(b)	
	Sales			Production		Production	
	Quantity	Value	Quantity	Value	Quantity	Value	
	Th. tons	£'000	No.	Th. tons	£'000	Th. tons	£'000
Paper, other than coated							
Machine glazed							
Kraft	29.3	2,017	16	39.2	777	27.1	446
Imitation kraft	17.3	857	17				
Poster, fully bleached	4.4	345	13	16.1	434(c)	13.4	296(c)
Pure sulphite, weighing 10 lb. or more to the standard ream	14.9	1,097	19	24.2	533(d)	15.9	291(d)
Tissue, sulphite and mechanical, weighing less than 10 lb. to the standard ream	10.5	869	6	4.2	499(e)	2.9	324(e)
Envelope	18.5	1,148	16	31.0	663	25.1	472
Manilla (other than envelope paper)	10.9	879	10				
Other uncoated paper							
Weighing 10 lb. or more to the standard ream							
Packing and wrapping paper	18.9	930	17	38.6	781	33.2	606
Other papers	12.9	721	19				
Weighing less than 10 lb. to the standard ream	1.2	104	..				
Other than machine glazed							
Writing paper							
Hand-made	0.3	108	..	0.6	128	0.5	103
Mould-made	0.1	41	5	169.3	6,015(f)	145.9	4,781(f)
Other	133.4	13,108	61				

TABLE 8 (contd.)

	1948 (a) Sales			1937 (b) Production		1935 (b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th. tons	£'000	No.	Th. tons	£'000	Th. tons	£'000
Paper, other than coated (contd.)							
Other than machine glazed (contd.)							
Printing paper							
Newsprint							
In rolls	284.2	12,227	12	909.6	8,699	857.3	8,051
In sheets	6.3	307	9				
Wallpaper long elephants (i.e., base paper for wallpaper)	23.3	1,126	16	436.7	9,877	391.7	7,760
Hand-made, mould-made and other uncoated printing paper	273.7	20,874	..				
Kraft	93.2	6,105	16	141.5	2,308	86.3	1,359
Imitation kraft	12.5	570	19				
Genuine vegetable parchment	12.8	1,458	..	12.6	519	14.0	443(g)
Glazed imitation parchment	8.7	775	15	9.7	247		
Greaseproof paper							
Bleached, and natural tracing paper	1.9	210	..	11.3	268	11.0	214
Unbleached	6.8	546					
Imitation	5.3	393	6				
Glazed transparent paper	3.4	372	..	3.4	131	3.2	101
Strawpaper and strawboard weighing not more than 90 lb. to the standard ream	68.8	1,960	21	51.5	492	38.9	324
Blotting paper							
Filter	0.8	290	11	0.5	102	0.5	63
Other	3.2	444	9	6.3	374	5.5	326
Cigarette paper in bobbins, reels or sheets	5.9	1,472	5	4.1	478	3.7	444
Carbonising tissue	2.5	681	5				
Raw base paper for sensitising	9.3	1,060	..				
Body papers for abrasives	1.4	193	6				
Tube papers	5.5	228	9				

TABLE 8 (contd.)

	1948 (a) Sales			1937 (b) Production		1935 (b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th. tons	£'000	No.	Th. tons	£'000	Th. tons	£'000
Paper, other than coated (contd.)							
Other than machine glazed (contd.)							
Electrical condenser or pottery tissue; felt base for the manufacture of roofing and other felts, weighing not more than 90 lb. to the standard ream; and body papers for vulcanising	3.6	610	..	152.8	2,949(1)	123.3	2,223(1)
Uncoated paper not specified above							
Weighing 10lb. or more to the standard ream							
Packing and wrapping papers	34.5	1,381	44				
Other	52.8	3,949	45				
Weighing less than 10lb. to the standard ream							
Sulphite and mechanical	3.7	315	..				
Other	1.8	354	..				
Total paper, other than coated	1,198.5	80,123	..	2,063.2	36,274	1,799.4	28,627
..	..	28	..				
Board, other than coated							
Machine glazed	14.1	782	7	52.3	1,110(j)	22.2	454(j)
Other than machine glazed							
Strawboard or chipboard (including container middles) weighing more than 90 lb. to the standard ream							
Lined	65.2	1,635	10	112.4	1,007	79.5	780
Other	88.5	1,977	27				
Leatherboard and imitation leatherboard	4.0	155	13	14.0	230		
..	..	80					

TABLE 8 (contd.)

	1948 (a) Sales			1937 (b) Production		1935 (b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th. tons	£'000	No.	Th. tons	£'000	Th. tons	£'000
Board, other than coated (contd.)							
Other than machine glazed (contd.)							
Fibre building board							
Insulation board (homogeneous)	5.2	183	..				
	..	616					
Laminated wallboard	6.5	383	7	15.0	278(k)	8.2	169(k)
Hardboard and medium hardboard	3.3	171	..				
	..	201					
Electrical insulating pressboard	2.7	359	5				
Textile pressboard	0.3	29	..	2.4	135		
Folding boxboard	109.0	3,708	6				
Woodpulp board (non-bending)	5.5	279	..			184.0	2,493
Kraftboard in reels	45.1	2,107	..				
Matrix board (stereotyping dry flong)	0.6	88	..				
Boot and shoe board	13.6	641	13				
Trunk and suitcase board	1.9	103	9	171.9	2,256		
Felt base for the manufacture of roofing and other felts, weighing more than 90 lb. to the standard ream	13.3	486	..				
Other uncoated board							
Boards for packing	3.0	101	6				
Other uncoated boards	78.7	3,928	34				
Total board, other than coated	460.4	17,113	..	368.0	5,016	293.9	3,896
	..	896					
Paper, coated (excluding paper hangings and waterproof wrappings)							
Coated with white or coloured coating on both sides (other than embossed)	43.0	4,288	22	49.6	1,772(l)	36.7	1,304(l)

TABLE 8 (contd.)

	1948 (a) Sales			1937 (b) Production		1935 (b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th. tons	£'000	No.	Th. tons	£'000	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)	22.4	3,227	28	16.7	656(l)	12.1	468(l)
Coated with metal coating on one or both sides (embossed or other)	3.1	658	14	5.0	297	21.1	1,108
Other coated paper (including embossed)	10.1	1,771	26	13.1	836	..	118
				..	146		
Total paper, coated	78.6	9,944	..	64.4	3,561	69.9	2,880
	78			..	146	..	118
Board, coated (excluding paper hangings)							
Coated with white or coloured coating on both sides (other than embossed)	2.8	312	13				
Coated with white or coloured coating on one side only (other than embossed)	31.2	2,204	20	30.5	886(m)	26.2	722(m)
Other coated board (including embossed)	3.3	319	7				
Total board, coated	37.3	2,835	..	30.5	886(m)	26.2	722(m)
Transparent cellulose wrappings in sheets or rolls	15.8	4,622	6	5.3	1,028	2.5	448
Oiled, waxed and other waterproof wrappings, not elsewhere specified	39.7	5,269	41	29.6	1,384	25.4	1,131
Laminated and reinforced (e.g., cloth lined) paper (excluding bituminised laminated kraft) (g)	2.6	335	7	-	-	-	-
	..	62					
Laminated and reinforced (e.g., cloth lined) board (g)	6.8	831	14	-	-	-	-
	..	146					
Bituminised laminated kraft, for packing (g)	8.3	337	..	-	-	-	-



TABLE 8 (contd.)

	1948 (a) Sales			1937 (b) Production		1935 (b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th. tons	£'000	No.	Th. tons	£'000	Th. tons	£'000
Other manufactures of paper and board							
Of paper (including roofing and flooring felt paper)	13.7 ..	626 33	} 17 6 ..	30.8	447	28.2	340
Of board	2.6 ..	130 17		-	-	-	-
Unclassified	..	51		-	-	-	-
Work done for the trade or on commission (n)							
Paper coating		227	8		91(p)		79(p)
Other		722	39		10		10
Total		124,346	..		48,843		38,251
Less sales or production in other trades		1,523	..		311		264
Total principal products of this trade sold or made by establishments in the trade		122,823	264		48,532		37,987

(a) Great Britain only.

(b) United Kingdom.

(c) Described as "Machine glazed packing and wrapping papers, litho poster".

(d) Described as "Sulphite".

(e) Described as "Tissue paper below 8 lbs. in substance to the standard ream".

(f) Described as "Machine-made".

(g) So far as recorded separately.

(h) Not recorded separately.

(i) Recorded as:-

	1937		1935	
	Th. tons	£'000	Th. tons	£'000
Fourdrinier packing and wrapping paper				
Brown	47.3	606	35.9	393
Sugar and fruit papers	6.5	84	5.4	60
Glazed and unglazed casings (textile papers)	25.0	511	} 61.8	} 1,164
Other sorts (other than kraft and strawpaper)	53.1	1,045		
Other sorts of uncoated paper	20.9	703	20.2	606

(j) Described as "Cardboard and millboard, uncoated, machine glazed, not elsewhere specified".

(k) Described as "Building board (wallboard) including laminated" in 1937 and "Wallboards and compo-boards" in 1935.

(l) Described as "Coated with white coating".

(m) Described as "Cardboard and millboard, not elsewhere specified, coated on one or both sides".

(n) Amount charged in 1948 and amount received in 1937 and 1935.

(p) Described as "Paper coating, waxing, etc.". DS 18791/1

Sales (or production) of principal products of the trade by establishments classified to other trades

Larger establishments

TABLE 9

	1948 (a) Sales			1937 (b) Production		1935 (b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th. tons	£'000	No.	Th. tons	£'000	Th. tons	£'000
Paper, other than coated							
Other than machine glazed							
Imitation kraft	0.4	14	..	-	-	-	-
Strawpaper and strawboard weighing not more than 90 lb. to the standard ream	0.4	10	..	-	-	-	-
Tube papers	0.4	11	..	} 5.5	} 78	} 2.3	} 32
Uncoated paper not specified above							
Weighing 10 lb. or more to the standard ream							
Packing and wrapping papers	1.4	62	..				
Total paper, other than coated	2.6	96	..	5.5	78	2.3	32
Board, other than coated							
Other than machine glazed							
Strawboard or chipboard (including container middles) weighing more than 90 lb. to the standard ream							
Other than lined	5.5	121	..	-	-	} 0.1	} 1
Leatherboard and imitation leatherboard	-	-	-	0.6	10		
Fibre building board							
Laminated wallboard	0.2	10	..	-	-		
Other uncoated board							
Boards for packing	0.3	21	..	} 1.6	} 53	} 2.3	} 72
Other uncoated boards	1.9	81	5				
Total board, other than coated	7.9	233	..	2.2	63	2.4	73

TABLE 9 (contd.)

	1948(a) Sales			1937(b) Production		1935(b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th. tons	£'000	No.	Th. tons	£'000	Th. tons	£'000
Paper, coated (excluding paper hangings and water-proof wrappings)							
Coated with white or coloured coating on both sides (other than embossed)	-	-	-	1.8	69	0.8	30
Coated with metal coating on one or both sides (embossed or other)	0.3	107	..	0.2	19	0.7	43
Other coated paper (including embossed)	0.2	75	6	..	39	..	46
Total paper, coated	0.5	183	..	2.0	88	1.5	73
				..	39	..	46
Transparent cellulose wrappings in sheets or rolls	-	2	..	-	-	-	-
Oiled, waxed and other water-proof wrappings, not elsewhere specified	1.6	248	17	0.5	21	0.5	20
Laminated and reinforced (e.g., cloth lined) paper and board, and bituminised laminated kraft, for packing	3.7	425	..	-	-	-	-
	..	132	..	-	-	-	-
Other manufactures of paper and board							
Of paper (including roofing and flooring felt paper)	0.4	16	..	-	-	-	-
	..	33	..	-	-	-	-
Of board	..	17	..	-	-	-	-
Work done for the trade or on commission (c)		140	6		22		20
Total		1,523	..		311		264

(a) Great Britain only.

(b) United Kingdom.

(c) Amount charged in 1948 and amount received in 1937 and 1935.

Sales (or production) in the trade of other than principal products

Larger establishments

TABLE 10

	1948(a) Sales		1937(b) Production	1935(b) Production
	Quantity	Value	Value	Value
	Th. cwts.	£'000	£'000	£'000
Paper bags and sacks	265.1	849	398	288(c)
Purchased paper, corrugated, crepe, crinkled, etc. for sale	..	360	54	65
Toilet paper	46.2	309	38	1,260
Other articles of paper and board	..	4,512	1,476	
Other goods	..	689	64	64
Electricity and waste heat sold (d)	..	623	36	36
Waste products	..	82	-	-
Work done		41(e)	-	-
Total		7,466	2,066	1,713

(a) Great Britain only.

(b) United Kingdom.

(c) Described as "Paper bags".

(d) So far as recorded separately.

(e) Amount charged.

## Analysis of sales, 1948

## Larger establishments in Great Britain

TABLE II

	Sales	Percentage of total sales
	£'000	
Sales (or transfers) to other organisations under the same control		
Productive works	9,670	7.5
Export sales organisations (including branches abroad)	5,135	4.0
Other wholesale or selling organisations	15,722	12.1
Retail shops, etc.		
Total sales (or transfers) to other organisations under the same control	30,527	23.8
Sales to independent buyers		
Exports invoiced directly overseas	4,657	3.6
Exports invoiced to Crown Agents and purchasing houses in this country of individual firms and governments abroad	1,713	1.3
His Majesty's Government and Local Authorities (other than productive establishments)	2,905	2.2
Manufacturers, repairers, builders, mines, public utilities, and transport and other productive undertakings	40,833	31.6
Wholesalers, merchants and other agents for resale	46,210(a)	35.7
Retailers, including multiple shops, caterers and N.A.A.F.I., for resale	356	0.3
Other businesses (including farmers) and institutions of all kinds	2,231	1.7
Members of the public, including employees	7	-
Total sales to independent buyers	98,912	76.4
Total	129,438	100.0

(a) Of this total £32,289,000 was recorded as divided between £4,131,000 for export and £28,158,000 for other sales.

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

TABLE 12

		Production (b) (c)	Exports	Retained Imports
		Th. tons	Th. tons	Th. tons
Paper, other than coated				
Machine glazed				
Kraft	1948	28.9	..	33.6
Imitation kraft	1948	18.7	..	0.3
Total kraft and imitation kraft	{ 1948	47.6	0.4	33.9
	{ 1937	39.2	0.3	76.0
Poster, fully bleached	1948	4.5	0.5	-
Pure sulphite weighing 10 lb. or more to the standard ream	{ 1948	15.3	0.8	19.7
	{ 1937	24.2	0.1	70.1
Other than machine glazed				
Writing paper	{ 1948	135.5	11.8(d)	5.5 (d)
	{ 1937	139.9	15.4(d)	8.8 (d)
Printing paper				
Newsprint, in rolls	1948	289.5	19.7	126.0
Kraft	1948	94.1	..	21.2
Imitation kraft	1948	12.9	..	-
Total kraft and imitation kraft	{ 1948	107.0	0.7	21.2
	{ 1937	141.5	1.8	38.1
Glazed imitation parchment	1948	8.6	0.1	1.1
Glazed transparent paper	1948	3.3	-	0.6
Strawpaper and strawboard weighing not more than 90 lb. to the standard ream	{ 1948	39.0	0.1	2.8
	{ 1937	51.5	0.1	2.8
Blotting paper				
Filter	{ 1948	0.9	0.3	-
	{ 1937	0.5	0.2	-
Other	{ 1948	3.3	0.9	-
	{ 1937	6.3	2.2	0.1
Cigarette paper in bobbins, reels or sheets	{ 1948	6.1	2.1	0.5
	{ 1937	4.1	1.4	0.4
Board, other than coated		13.7		
Machine glazed	{ 1948	13.7	0.1	7.4
	{ 1937	52.3	0.2	21.6

TABLE 12 (contd.)

		Production (b) (c)	Exports	Retained imports
		Th. tons	Th. tons	Th. tons
Board, other than coated (contd.)				
Other than machine glazed				
Strawboard or chipboard (including container middles) weighing more than 90 lb. to the standard ream				
Lined	{ 1948	65.2	..	19.7
	{ 1937	..	0.1	96.7
Other	{ 1948	88.8	..	54.0
	{ 1937	..	0.9	145.2
Total strawboard	{ 1948	154.0	0.1	73.7
	{ 1937	112.4	1.0	241.9
Electrical insulating pressboard	1948	2.8	0.4	-
Paper, coated (excluding paper hangings and waterproof wrappings)				
Coated with white or coloured coating on both sides (other than embossed)	1948	42.8	7.8	-
Coated with white or coloured coating on one side only (other than embossed)	1948	21.5	3.1	0.4
Coated with metal coating on one or both sides (embossed or other)	1948	2.9	0.5	-
Board, coated (excluding paper hangings)	{ 1948	43.0	3.5	4.6
	{ 1937	30.5	2.6	27.2
Transparent cellulose wrappings in sheets or rolls	{ 1948	15.9	8.4	-
	{ 1937	5.3	0.7	1.2
Oiled, waxed and other waterproof wrappings, not elsewhere specified	{ 1948	39.7 (e)	1.4	0.5
	{ 1937	29.6	2.8	0.7

- (a) Figures of sales (or production) refer only to larger establishments in Great Britain (1948) or the United Kingdom (1937). All recorded exports from and imports into the United Kingdom are given in the table. The figures, therefore, are not strictly comparable.
- (b) Production whether for sale or not in 1948, production for sale in 1937.
- (c) Including production (or sales) by establishments classified to other trades.
- (d) Described as "Writing paper in large sheets".
- (e) Sales.

## Purchased materials and fuel

## Larger establishments

TABLE 13

	1948 (a)		1937 (b)		1935 (b)	
	Materials and fuel purchased		Usage of purchased materials and fuel			
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. tons (air dry weight)	£'000	Th. tons (air dry weight)	£'000	Th. tons (air dry weight)	£'000
Materials						
Wood pulp						
Chemical						
Dry, bleached						
Sulphite	81.3	4,283				
Soda and sulphate	22.2	1,149				
Dry, unbleached						
Sulphite						
Strong, easy bleaching and bleachable	219.0	10,190				
Other	19.1	857	985.8	8,916	864.0	6,598
Soda and sulphate						
Kraft, easy bleaching and bleachable	113.8	5,001				
Other	48.1	2,149				
Wet	51.2	2,320				
Mechanical						
Dry	14.0	373				
Wet						
Bleached	0.8	22				
Unbleached	258.4	6,915				
Th. tons			Th. tons		Th. tons	
Esparto	317.1	5,382	350.8	1,470	285.6	1,284
Waste paper (including newspaper over-issues)	720.4	7,323	526.8	1,751	409.2	994
Linen, cotton, hemp, jute and ramie rags, not pulled	82.7	2,986	69.4	1,005	60.5	708

TABLE 13 (contd.)

	1948 (a)		1937 (b)		1935 (b)	
	Materials and fuel purchased		Usage of purchased materials and fuel			
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Materials (contd.)						
Straw	172.1	1,098				
Straw pulp, bleached, and other fibrous materials including waste	69.5	1,905	28.2	355	33.8	370
China clay and other loadings	158.0	1,114	273.4	639	222.7	520
Paper and board purchased for oiling, waxing, corrugating, creping, etc.	48.3	3,416	41.7	843(c)		
	Th. cu. fthms.		Th. cu. fthms.			
Pulpwood	20.3	940	93.6	480	..	(d)
	..	386				
Packing materials	..	1,759	..	160(e)		
	Th. tons					
Sulphuric acid (in terms of 100 per cent. acid)	33.4	211				
Chlorine	18.5	361				
Caustic soda (on the basis of 76 <sup>0</sup> E)	46.3	779				
Soda ash (on the basis of 58 <sup>0</sup> )	46.3	356				
Glycerine and glycerine substitutes	2.7	301				
	..	45				
Acetates, butyl and other	0.1	17				
	..	14				
Bleaching powder	11.8	140				
Glue and gelatine	4.6	631				
	..	143				
Rosin and rosin size	24.9	1,067	..	8,044	..	7,478(f)
Casein	4.3	658				
Alum	58.7	708				
	Th. cwts.					
Dyes and dyestuffs	51.7	525				
Inorganic pigment colours	38.4	152				
	Th. tons					
Lime	89.5	310				
Body paper for coating	41.6	3,042				
Body board for coating	10.5	540				

TABLE 13 (contd.)

	1948 (a)		1937 (b)		1935 (b)	
	Materials and fuel purchased		Usage of purchased materials and fuel			
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. sq. ft.	£'000	Th. tons	£'000	Th. tons	£'000
Materials (contd.)						
Paper machine wires	2,300	374				
Machine felts	7,228	945				
Other replacement parts for machines	..	765				
Water	Th. galls. 12,945	77				
All other purchased materials	..	5,772				
Fuel and electricity	Th. tons					
Coal	2,912.8	7,984	3,466.9	3,213	2,984.4	2,271
Coke	69.8	142	..	(d)	3.2	3
	Th. B.T.U. (KW. hrs.)		Th. B.T.U. (KW. hrs.)		Th. B.T.U. (KW. hrs.)	
Electricity purchased (g)						
From public supply	212,126	829				
From other sources			155,081	309	125,048	237
Electricity obtained from other works under the same ownership	127,753	426				
	Th. galls.				Th. galls.	
Motor spirit (petrol) and deriv. fuel						
Used for road vehicles	621	58	..	(d)	..	(d)
Used for other power purposes	941	39				
Other oil fuel (including creosote/pitch mixtures)	14,201	509	..	(d)	254	5(h)
Gas purchased	Th. therms					
From public supply	319	16				
	..	2				
From other sources	-	-	..	67	..	(d)
Gas obtained from other works under the same ownership	-	-				
All other purchased fuel	..	181				
Total		87,683		30,703		23,193

(a) Great Britain only.

(b) United Kingdom.

(c) Paper only.

(d) Not recorded separately.

(e) Described as "Packing cases and crates, including materials therefor".

(f) Including fuel not specified separately.

(g) The total quantity of electricity consumed in 1948 was 1,431,811,000 B.T. units, including 1,091,932,000 generated in the same works.

(h) Described as "Heavy fuel oil".

Stocks of finished products and work in progress  
and stocks of materials and fuel, 1948

Larger establishments in Great Britain

TABLE 14

	At beginning of year		At end of year	
	Quantity	Value	Quantity	Value
	Th. tons	£'000	Th. tons	£'000
Finished products				
Writing paper, other than hand-made and mould-made	8.6	712	9.4	881
Printing paper				
Newsprint	12.4	436	17.9	576
Other uncoated printing paper	10.8	529	4.8	662
Kraft, other than machine glazed	3.2	178	4.2	221
Transparent cellulose wrappings in sheets or rolls	1.1	224	1.2	227
Oiled, waxed and other waterproof wrappings	0.5	56	0.8	91
Other coated paper and board, not photographic	4.9	345	5.2	400
Paper, board and all other finished products not specified above	..	1,315	..	1,734
Work in progress		652		754
Total finished products and work in progress		4,446		5,567
Materials and fuel	Th. tons (air dry weight)		Th. tons (air dry weight)	
Chemical wood pulp	13.5	575	23.7	967
Waste paper	74.0	674	89.5	693
Rags and other fibrous materials	34.2	1,157	43.3	1,419
Coal	350.7	856	367.6	957
Other descriptions of materials and fuel	..	5,875	..	6,956
Total materials and fuel		9,137		10,993

Employment and remuneration (a)

Larger establishments

TABLE 15

	Average number of operatives			Administrative, technical and clerical employees (b)			Total		
	1948(c)	1937(d)	1935(d)	1948(c)	1937(d)	1935(d)	1948(c)	1937(d)	1935(d)
Males									
Under 18	2,070	3,365	2,650	186	307	242	2,256	3,672	2,892
All ages	46,301	43,862	40,368	5,425	3,987	3,721	51,726	47,849	44,089
Females									
Under 18	2,416	4,475	3,372	429	269	181	2,845	4,744	3,553
All ages	11,975	13,573	12,541	2,424	1,430	1,257	14,399	15,003	13,798
Total									
Under 18	4,486	7,840	6,022	615	576	423	5,101	8,416	6,445
All ages	58,276	57,435	52,909	7,849 (e)	5,417	4,978	66,125 (e) (f) (g)	62,852	57,887
Total remuneration	£'000			£'000			£'000		
	17,325	..	..	4,045	..	..	21,370	..	..

(a) Excluded employees. The following numbers were employed at establishments in this trade but are not included in the table or in any other report (e.g., employees in a separate selling or transport organisation for which separate accounts are kept):-

Canteen workers	66 males	570 females
Other workers	133 males	55 females

(b) Number at September 25, 1948, October 16, 1937, and October 12, 1935.

(c) Great Britain only.

(d) United Kingdom.

(e) There were, in addition, 15 male working proprietors in 1948. Working proprietors are included in the 1937 and 1935 figures.

(f) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to £523,000.

(g) The following persons (included in this total) were employed on special work by establishments employing 100 or more persons:-

	Operatives	Administrative, technical and clerical employees
Transport of goods outside the premises	227	
Maintenance and repair of firms' buildings, but not plant	544	
Research work not directly connected with current production however charged	15	513

In addition to the employees in the above table the firms in this trade employed 11 female outworkers in 1948, the amount paid to them being £1,000. Similar information is not available for 1937 and 1935.

## Wages and salaries paid, 1948 (a)

## Larger establishments in Great Britain

TABLE 16

	Amount paid by all establishments	Establishments making returns for the calendar year					
		Amount paid	Percentage of annual remuneration paid in				
			First quarter	Second quarter	Third quarter	Fourth quarter	Year
Wages and salaries of	£'000	£'000					
Operatives	17,325	5,526	23.3	24.8	25.2	26.7	100.0
Administrative, technical and clerical employees	4,045	1,479	25.5	23.9	23.7	26.9	100.0
Total	21,370	7,006	23.8	24.6	24.8	26.8	100.0

(a) Including bonus and commission payments.

## TABLE 17 - Payments for work done on materials given out, 1948

## Larger establishments in Great Britain

The total amount paid for work done on materials given out was £89,000.

Payments for certain services, 1948  
Larger establishments in Great Britain

TABLE 18

	Amount paid
Repair and maintenance	£'000
Of buildings	430
Of plant, machinery and vehicles	1,182
Unclassified	873
Hire of plant, machinery and vehicles	166
Advertising and market research	
Advertising in newspapers, magazines and periodicals	52
Other advertising services (poster display, despatch of circulars, etc.) and market research	10
Unclassified	60
Payments made for research work	
To research associations	23
To universities, institutions, academic bodies and similar agencies	1
To other commercial concerns	59
Postage, telephone, telegrams and cables	141
Commercial insurance premiums	632
Rates (excluding water rates) payable in the year	151

## Plant, machinery and vehicles acquired and disposed of, 1948

## Larger establishments in Great Britain

TABLE 19

	Acquisitions		Disposals
	New	Second-hand	
	£'000	£'000	£'000
Plant and machinery	4,176	145	165
Vehicles	162	34	17
Total	4,338	179	182

## Capital expenditure on building work and changes in occupation of buildings and land, 1948

## Larger establishments in Great Britain

TABLE 20

	£'000	£'000
1. Capital expenditure on building work (a)		741
2. Existing buildings and land (b)		
(1) Capital cost of freeholds bought	38	
Estimated capital value of		
(11) Rented property newly occupied in the year (c)	21	
(111) Leasehold buildings and land newly occupied in the year	174	
Total of heading 2		232 233
Total of headings 1 and 2		974 ✓
3. Existing buildings and land relinquished (d)		41 ✓
4. Headings 1 and 2 less heading 3		933

- (a) Excluding site value which, where appropriate, is included in heading 2 (1).  
 (b) The figures do not reflect changes in ownership of previously occupied land and buildings.  
 (c) Property which is occupied under an agreement for the payment of rent without the purchase of a lease or the payment of a premium.  
 (d) Including property destroyed or abandoned.

1948

## Summary

## Larger establishments

TABLE 21

	England	Wales	Scotland	Great Britain
	£'000	£'000	£'000	£'000
Gross output (production)	102,428	1,966	25,054	129,449
Cost of materials and fuel used	67,722	1,317	16,788	85,828
Payment for work done on materials given out	68	-	21	89
Net output	34,637	649	8,245	43,532
Wages and salaries of persons employed	16,707	476	4,187	21,370
Average number of persons employed (a)	No. 50,055	No. 1,518	No. 14,587	No. 66,140
Net output per person employed (a)	£ 692	£ 428	£ 566	£ 658
Stocks at end of year	£'000	£'000	£'000	£'000
Finished products and work in progress	4,302	220	1,045	5,567
Materials and fuel	9,441	125	1,426	10,993
Number of establishments	No. 221	No. 4	No. 50	No. 275

(a) Excluding outworkers.

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 23)	102,890	1,920	25,479	130,289
Adjustment for changes in stocks and work in progress	+ 901	+ 84	+ 136	+ 1,121
Less payment for transport by other firms	103,790 1,363	2,004 38	25,615 560	131,409 1,961
Gross output (production)	102,428	1,966	25,054	129,449
Materials and fuel used by firms in this trade				
Purchases (see Table 24)	69,365	1,351	16,967	87,683
Adjustment for changes in stocks	- 1,643	- 34	- 178	- 1,856
Materials and fuel used	67,722	1,317	16,788	85,828



Summary  
Small firms

TABLE 22

	England	Wales	Scotland	Great Britain
Number of returns	43	-	2	45
Average number of persons employed (a)				
Males	172	-	10	182
Females	49	-	4	53
Total	221	-	14	235

(a) Including working proprietors.

Sales in the trade  
Larger establishments

TABLE 23

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Principal products						
Paper, other than coated						
Machine glazed						
Kraft	26.7	1,825	2.6	191	29.3	2,017
Imitation kraft	10.9	544	6.4	313	17.3	857
Poster, fully bleached	..	(a)	..	(a)	4.4	345
Pure sulphite, weighing 10 lb. or more to the standard ream	12.5	929	2.5	168	14.9	1,097
Tissue, sulphite and mechanical, weighing less than 10 lb. to the standard ream	10.5	869	-	-	10.5	869
Envelope	15.4	927	3.1	221	18.5	1,148
Manilla (other than envelope paper)	2.4	162	8.5	717	10.9	879
Other uncoated paper						
Weighing 10 lb. or more to the standard ream						
Packing and wrapping paper	..	(a)	..	(a)	18.9	930
Other papers	11.9	672	1.0	49	12.9	721
Weighing less than 10 lb. to the standard ream	1.2	104	-	-	1.2	104
Other than machine glazed						
Writing paper						
Hand-made	0.3	108	-	-	0.3	108
Mould-made	0.1	41	-	-	0.1	41
Other	75.5	7,900	58.0	5,208	133.4	13,108

TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Principal products (contd.)						
Paper, other than coated (contd.)						
Other than machine glazed (contd.)						
Printing paper						
Newsprint						
In rolls	..	(a)	..	(a)	284.2	12,227
In sheets	..	(a)	..	(a)	6.3	307
Wallpaper long elephants (i.e., base paper for wallpaper)	..	(a)	..	(a)	23.3	1,126
Hand-made, mould-made and other uncoated printing paper	192.3	14,087	81.4	6,787	273.7	20,874
Kraft	..	(a)	..	(a)	93.2	6,105
Imitation kraft	11.3	520	0.8	36	12.1	556
Genuine vegetable parchment	12.8	1,458	-	-	12.8	1,458
Glazed imitation parchment	..	(a)	..	(a)	8.7	775
Greaseproof paper						
Bleached, and natural tracing paper	..	(a)	..	(a)	1.9	210
Unbleached	6.8	546	-	-	6.8	546
Imitation	..	(a)	..	(a)	5.3	393
Glazed transparent paper	3.4	372	-	-	3.4	372
Strawpaper and strawboard weighing not more than 90 lb. to the standard ream	65.4	1,869	3.0	82	68.5	1,950
Blotting paper						
Filter	..	(a)	..	(a)	0.8	290
Other	1.9	266	1.3	179	3.2	444
Cigarette paper in bobbins, reels or sheets	5.9	1,472	-	-	5.9	1,472
Carbonising tissue	2.5	681	-	-	2.5	681
Raw base paper for sensitising	..	(a)	..	(a)	9.3	1,060

TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Principal products (contd.)						
Paper, other than coated (contd.)						
Other than machine glazed (contd.)						
Body papers for abrasives	..	(a)	..	(a)	1.4	193
Tube papers	..	(a)	..	(a)	5.0	217
Electrical condenser or pottery tissue; felt base for the manufacture of roofing and other felts, weighing not more than 90 lb. to the standard ream; and body papers for vulcanising	..	(a)	..	(a)	3.6	610
Uncoated paper not specified above						
Weighing 10 lb. or more to the standard ream						
Packing and wrapping papers	30.6	1,232	2.5	87	33.1	1,319
Other	34.0	2,057	18.8	1,892	52.8	3,949
Weighing less than 10 lb. to the standard ream						
Sulphite and mechanical	3.7	315	-	-	3.7	315
Other	..	(a)	..	(a)	1.8	354
Total paper, other than coated	979.2	62,428	216.7	17,599	1,195.8	80,027
Board, other than coated	..	28	..	28	..	28
Machine glazed	..	(a)	..	(a)	14.1	782
Other than machine glazed						
Strawboard or chipboard (including container middles) weighing more than 90 lb. to the standard ream						
Lined	57.2	1,399	8.0	236	65.2	1,635
Other	76.9	1,724	6.0	131	82.9	1,855

TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Principal products (contd.)						
Board, other than coated (contd.)						
Other than machine glazed (contd.)						
Leatherboard and imitation leatherboard	..	(a)	..	(a)	4.0 ..	155 80
Fibre building board						
Insulation board (homogeneous)	5.2 ..	183 616	-	-	5.2 ..	183 616
Laminated wallboard	6.4	373	-	-	6.4	373
Hardboard and medium hardboard	3.3 ..	171 201	-	-	3.3 ..	171 201
Electrical insulating pressboard	..	(a)	..	(a)	2.7	359
Textile pressboard	0.3	29	-	-	0.3	29
Folding boxboard	..	(a)	..	(a)	109.0	3,708
Woodpulp board (non-bending)	5.5	279	-	-	5.5	279
Kraftboard in reels	45.1	2,107	-	-	45.1	2,107
Matrix board (stereotyping dry flong)	..	(a)	..	(a)	0.6	88
Boot and shoe board	13.6	641	-	-	13.6	641
Trunk and suitcase board	1.9	103	-	-	1.9	103
Felt base for the manufacture of roofing and other felts, weighing more than 90 lb. to the standard ream	13.3	486	-	-	13.3	486
Other uncoated board						
Boards for packing	..	(a)	..	(a)	2.6	80
Other uncoated boards	59.3	2,789	17.5	1,058	76.8	3,847
Total board, other than coated	413.7 ..	15,048 896	38.8	1,833	452.5 ..	16,881 896

TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Principal products (contd.)						
Paper, coated (excluding paper hangings and water-proof wrappings)						
Coated with white or coloured coating on both sides (other than embossed)	17.0	1,453	26.0	2,834	43.0	4,288
Coated with white or coloured coating on one side only (other than embossed)	10.3	1,527	12.1	1,700	22.4	3,227
Coated with metal coating on one or both sides (embossed or other)	..	(a)	..	(a)	2.8	551
Other coated paper (including embossed)	7.7	1,285	2.2	411	9.8	1,696
Total paper, coated	..	(a)	..	(a)	78.1	9,762
Board, coated (excluding paper hangings)						
Coated with white or coloured coating on both sides (other than embossed)	1.2	122	1.6	190	2.8	312
Coated with white or coloured coating on one side only (other than embossed)	30.7	2,141	0.5	63	31.2	2,204
Other coated board (including embossed)	..	(a)	..	(a)	3.3	319
Total board, coated	..	(a)	..	(a)	37.3	2,835
Transparent cellulose wrappings in sheets or rolls	15.8	4,619	-	-	15.8	4,619
Oiled, waxed and other waterproof wrappings, not elsewhere specified	..	(a)	..	(a)	38.2	5,021
Laminated and reinforced (e.g., cloth lined) paper and board, and bituminised laminated kraft for packing (b)	..	(a)	..	(a)	14.0 ..	1,078 76
Other manufactures of paper and board						
Of paper (including roofing and flooring felt paper)	..	(a)	..	(a)	13.3	610

TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Principal products (contd.)						
Other manufactures of paper and board (contd.)						
Of board	2.6	130	-	-	2.6	130
Unclassified	..	51	-	-	..	51
Work done for the trade or on commission (c)		(a)		(a)		809
Total principal products		97,903		24,920		122,823
Other output	Th. cwts.		Th. cwts.		Th. cwts.	
Paper bags and sacks	150.1	362	114.9	486	265.1	849
Purchased paper, corrugated, creped, crinkled, etc., for sale	..	(a)	..	(a)	..	360
Toilet paper	46.2	309	-	-	46.2	309
Other articles of paper and board	..	4,504	..	9	..	4,512
Other goods	..	647	..	42	..	689
Electricity and waste heat sold	..	(a)	..	(a)	..	623
Waste products	..	70	..	12	..	82
Work done (c)		(a)		(a)		41
Total		104,810		25,479		130,289

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

(b) So far as recorded separately.

(c) Amount charged.

Purchased materials and fuel  
Larger establishments

TABLE 24

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. tons (air dry weight)	£'000	Th. tons (air dry weight)	£'000	Th. tons (air dry weight)	£'000
Materials						
Wood pulp						
Chemical						
Dry, bleached						
Sulphite	75.7	3,999	5.6	283	81.3	4,283
Soda and sulphate	17.8	919	4.4	227	22.2	1,146
Dry, unbleached						
Sulphite						
Strong, easy bleaching and bleachable	199.2	9,184	38.9	1,865	238.1	10,190
Other					19.1	857
Soda and sulphate						
Kraft, easy bleaching and bleachable	90.4	3,965	23.3	1,036	113.7	5,001
Other	47.8	2,134	0.3	15	48.1	2,149
Wet	..	(a)	..	(a)	51.2	2,320
Mechanical						
Dry	..	(a)	..	(a)	14.0	373
Wet						
Bleached	0.8	22	-	-	0.8	22
Unbleached	243.0	6,499	15.5	416	258.5	6,915
Esparto	90.3	1,599	226.8	3,782	317.1	5,382
Waste paper (including newspaper over-issues)	663.1	6,707	57.3	615	720.4	7,323
Linen, cotton, hemp, jute and ramie rags, not pulled	60.0	2,309	22.6	677	82.6	2,986
Straw	131.2	818	40.9	280	172.1	1,098
Straw pulp, bleached, and other fibrous materials (including waste)	59.6	1,607	9.9	298	69.5	1,905
China clay and other loadings	113.6	763	44.4	351	158.0	1,114
Paper and board purchased for oiling, waxing, corrugating, creping, etc.	47.5	3,345	0.8	71	48.3	3,416

TABLE 24 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. cub. fthms.	£'000	Th. cub. fthms.	£'000	Th. cub. fthms.	£'000
Materials (contd.)						
Pulpwood	20.3	940	-	-	20.3	940
	..	386			..	386
Packing materials	..	1,293	..	466	..	1,759
	Th. tons		Th. tons		Th. tons	
Sulphuric acid (in terms of 100 per cent. acid)	31.7	200	1.7	11	33.4	211
Chlorine	9.8	190	8.7	171	18.5	361
Caustic soda (on the basis of 76° E)	34.2	568	12.1	211	46.3	779
Soda ash (on the basis of 58°)	23.0	173	23.3	184	46.3	356
Glycerine and glycerine substitutes	2.6	292	0.1	9	2.7	301
	..	45			..	45
Acetates, butyl and other	0.1	17	-	-	0.1	17
	..	14			..	14
Bleaching powder	10.0	113	1.9	27	11.8	140
Glue and gelatine	3.3	520	1.3	111	4.6	631
	..	139	..	4	..	143
Rosin and rosin size	20.0	829	4.9	237	24.9	1,067
Casein	1.8	272	2.5	386	4.3	658
Alum	46.4	543	12.3	165	58.7	708
	Th. cwts.		Th. cwts.		Th. cwts.	
Dyes and dyestuffs	38.4	431	13.3	93	51.7	525
Inorganic pigment colours	24.1	77	14.3	75	38.4	152
	Th. tons		Th. tons		Th. tons	
Lime	39.2	129	50.3	181	89.5	310
Body paper for coating	25.9	1,904	15.7	1,138	41.6	3,042
Body board for coating	9.4	458	1.2	81	10.5	540
	Th. sq. ft.		Th. sq. ft.		Th. sq. ft.	
Paper machine wires	1,859	297	441	77	2,300	374
Machine felts	6,013	767	1,214	178	7,228	945
Other replacement parts for machines	..	649	..	116	..	765
	Th. galls.		Th. galls.		Th. galls.	
Water	12,186	71	759	6	12,945	77
All other purchased materials	..	4,811	..	960	..	5,772

TABLE 24 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Fuel and electricity						
Coal	2,160.6	6,303	752.2	1,681	2,912.8	7,984
Coke	69.4	141	0.4	1	69.8	142
	Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)	
Electricity purchased (b)						
From public supply					212,126	829
From other sources	307,455	1,141	32,424	114	127,753	426
Electricity obtained from other works under the same ownership						
	Th. galls.		Th. galls.		Th. galls.	
Motor spirit (petrol) and derv. fuel						
Used for road vehicles	475	44	146	14	621	58
Used for other power purposes	844	34	97	5	941	39
Other oil fuel (including creosote/pitch mixtures)	7,862	272	6,339	236	14,201	509
	Th. therms		Th. therms		Th. therms	
Gas purchased						
From public supply	309	16	10	-	319	16
	..	1	..	1	..	2
From other sources	-	-	-	-	-	-
Gas obtained from other works under the same ownership	-	-	-	-	-	-
All other purchased fuel	..	181	-	-	..	181
Total		70,716		16,967		87,683

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

(b) The total quantity of electricity consumed in England and Wales was 1,143,231,000 B. T. units including 835,776,000 generated in the same works. The total quantity of electricity consumed in Scotland was 288,580,000 B. T. units including 256,156,000 generated in the same works.

## Employment and remuneration

## Larger establishments

TABLE 25

	England and Wales			Scotland			Great Britain		
	Average number of operatives	Admin-istrative, technical and clerical employees (a)	Total	Average number of operatives	Admin-istrative, technical and clerical employees (a)	Total	Average number of operatives	Admin-istrative, technical and clerical employees (a)	Total
Males									
Under 18	1,462	144	1,606	608	42	650	2,070	186	2,256
All ages	36,691	4,541	41,232	9,610	884	10,494	46,301	5,425	51,726
Females									
Under 18	1,597	340	1,937	819	89	908	2,416	429	2,845
All ages	8,418	1,910	10,328	3,557	514	4,071	11,975	2,424	14,399
Total									
Under 18	3,059	484	3,543	1,427	131	1,558	4,486	615	5,101
All ages	45,109	6,451 (b)	51,560 (b) (c)	13,167	1,398 (b)	14,565 (b) (c)	58,276	7,849 (b)	66,125 (b) (c)
Total remuneration	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000
	13,842	3,341	17,183	3,483	704	4,187	17,325	4,045	21,370

(a) Number at September 25, 1948.

(b) There were, in addition, 15 male working proprietors in Great Britain; 13 males in England and Wales, and 2 males in Scotland.

(c) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to a total of £523,000; £406,000 for England and Wales, and £117,000 for Scotland.

In addition to the employees in the above table the firms in this trade employed 11 female outworkers in England and Wales, the amount paid to them being £1,000.

Monthly index of employment of operatives: Larger establishments  
(average employment in 1948 = 100)

TABLE 26

Month	Monthly index (a)			Month	Monthly index (a)		
	England and Wales	Scotland	Great Britain		England and Wales	Scotland	Great Britain
1948				1948			
January	99.4	99.7	99.5	August	100.4	99.9	100.3
February	99.6	99.6	99.6	September	101.1	99.9	100.9
March	99.6	99.7	99.6	October	101.3	100.3	101.1
April	99.9	99.1	99.7	November	100.6	101.6	100.8
May	99.7	99.3	99.6	December	100.8	102.3	101.1
June	98.4	99.4	98.6	Percentage employment in this trade covered by the index	34.5	25.7	32.5
July	99.3	99.2	99.3				

(a) The index numbers are calculated from the number of operatives employed in one week in each month returned by larger establishments that made returns for the calendar year 1948.

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