

THE PAPER TRADE

INTRODUCTORY

This trade comprises firms that were engaged wholly or mainly in the manufacture of paper and board or the coating of paper.

Table I A.—General summary

Particulars	1935	1934	1933*	1930	1924 †
Value of products (Gross output)...	£'000 40,624	£'000 38,732	£'000 33,639	£'000 38,314	£'000 36,935
Cost of materials, fuel, and electricity used ...	23,736	23,506	19,899	24,900	23,975
Amount paid for work given out ...	54	52	41	6	†
Net output ...	16,834 No.	15,174 No.	13,699 No.	13,408 No.	12,960 No.
Average number of persons employed ...	59,748	57,874	53,215	53,514	51,234
Net output per person employed...	£ 282 No.	£ 262	£ 257	£ 251 No.	£ 253 No.
Number of returns ...	254	} †	† {	251	306
Number of establishments ...	267			272	†

* Firms that were not manufacturers of paper but were only engaged in the processing of purchased paper (e.g., waterproofing, coating, etc.) were not required to make returns for this year. The following are the general particulars in respect of these firms:—

	1935	1934	1930
Value of products (Gross output) ...	£'000 1,806	£'000 1,834	£'000 1,306
Net output ...	617	629	487
Average number of persons employed...	No. 2,226	No. 2,305	No. 1,804

† Not available.

* Including particulars of certain firms that made articles of paper but did not themselves manufacture paper or board; in the later years all such firms were assigned to other trades. These aggregates are therefore not strictly comparable by the extent of the output of 1,500 persons.

Table I B.—Firms employing not more than ten persons on the average

Particulars	1935	1930	1924
Number of returns received ...	30	No. 30	No. 23
Average number of persons employed:—			
Males ...	116	121	106
Females ...	48	45	50
TOTAL ...	164	166	156
Number of firms not making returns ...		—	—

In 1924 the value of the gross output of the small firms making returns was 0.1 per cent. of the total.

Table II.—Size of establishments in 1935

Size of establishment (average number employed)	Number of establishments	Gross output	Net output	Number of persons employed	Net output per person employed
	No.	£'000	£'000	No.	£
11-24	16	127	70	302	231
25-49	42	837	414	1,536	270
50-99	53	2,110	919	3,809	241
100-199	54	5,504	2,229	8,251	270
200-299	43	6,611	2,733	10,818	253
300-399	19	3,636	1,620	6,594	246
400-499	13	3,659	1,497	5,556	269
500-749	18	6,849	3,039	10,628	286
750-999	4	3,138	987	3,280	301
1,000 and over	5	8,153	3,326	8,974	371
TOTAL ...	267	40,624	16,834	59,748	282

Table III.—Particulars of output, etc., in each of the principal areas of the United Kingdom

Area*	Number of establishments†	Gross output	Net output	Number of person employed	Net output per person employed
	No.	£'000	£'000	No.	£
1 ...	{ 1935 53 1930 40	11,226 7,380	4,583 2,693	14,631 9,008	313 299
2 ...	{ 1935 62 1930 61	8,105 7,296	2,977 2,385	12,332 10,375	241 230
3 ...	{ 1935 13 1930 15	670 919	267 335	1,040 1,389	257 241
4 ...	{ 1935 6 1930 6	754 809	288 209	1,384 1,216	208 172
5 ...	{ 1935 13 1930 9	1,241 1,080	566 454	2,092 1,924	270 236
6 ...	1935 7	140	87	443	195
7 ...	1935 8	1,449	694	1,643	422
8 ...	1935 23	6,511	2,851	7,769	367
9 ...	1935 16	1,190	546	2,246	243
10 and 11 ...	1935 8	1,261	499	1,894	263
6 to 11 ...	{ 1935 62 1930 65	10,551 12,155	4,677 4,285	13,995 15,567	334 275
12 and 13 ...	{ 1935 4 1930 3	380 473	175 115	753 825	233 140
14 ...	{ 1935 11 1930 11	1,524 1,849	626 705	2,810 3,048	223 231
15 ...	1935 32	4,259	1,805	7,183	251
16 and 17 ...	1935 8	1,624	765	3,020	253
15 to 17 ...	{ 1935 40 1930 38	5,883 6,043	2,570 2,074	10,203 9,689	252 214
18 ...	{ 1935 3 1930 3	290 310	105 153	508 473	207 323
TOTAL ...	{ 1935 267 1930 251	40,624 38,314	16,834 13,408	59,748 53,514	282 251

* For particulars see page xviii.

† Number of returns for 1930.

Table IV.—Sub-divisions of the industry

Group	Number of establishments*	Gross output	Value of characteristic products	Net output	Number of persons employed	Net output per person employed
Newsprint ...	1935 12	9,979	7,957	3,442	9,710	354
	1930 17	10,806	9,022	3,057	9,291	329
Other uncoated printing paper ...	1935 51	8,394	5,824	3,329	13,698	243
	1930 51	9,902	7,546	3,251	15,183	214
Writing paper ...	1935 33	5,092	3,626	2,483	9,315	267
	1930 32	4,088	3,226	1,685	8,008	216
Packing and wrapping paper (other than greaseproof, transparent cellulose wrapping and oiled, waxed and other waterproof wrappings) ...	1935 64	4,773	3,747	1,940	8,405	231
	1930 64	4,956	3,941	1,754	8,442	208
Board (including vulcanised fibre board) ...	1935 41	4,877	3,623	2,440	6,929	352
	1930 41	3,886	2,897	1,591	5,352	297
Other output :-						
Coated papers ...	1935 12	1,942	1,341	797	3,167	252
Processors ...	1935 20	1,806	1,685	617	2,226	277
Other (including work done) ...	1935 34	3,761	...	1,786	6,298	284
Other output {	1935 66	7,509	...	3,200	11,691	274
	1930 46	4,675	...	2,070	7,236	286
TOTAL ...	1935 267	40,624	...	16,834	59,748	282
	1930 251	38,314	...	13,408	53,514	251

* Number of returns for 1930.

PRODUCTION

Note.—Owing to the adoption of a standard of weight for the purpose of differentiating between paper and board, the particulars for 1935 in respect of certain items in Tables V A and V B may not be precisely comparable with those for 1934.

Table V A.—Total make of Paper and Board

(including output used for further manufacturing purposes in the same works)

Kind of goods	1935		1934
	Quantity	Entries	
Paper (not exceeding in substance 90 lbs. D.C. 20 in. by 30 in., 480 sheets) :-	Th. tons	No.	Th. tons
M.G. ...	178.4	52	1,859.5
Other ...	1,690.8	156	
Felt paper ...	23.8	5	
Board (exceeding in substance 90 lbs. D.C. 20 in. by 30 in., 480 sheets) :-			
Cardboard and millboard :-			
Coated on one or both sides	26.7	15	258.4*
Uncoated -			
M.G. ...	22.3	11	
Other ...	248.4†	56	
Strawboard, leather board, and imitation leather board ...	71.8	25	56.2
Wallboards and composites ...	8.2	4	8.3

* Recorded as "Cardboard" (251,400 tons) and "Millboard" (7,000) tons.

† Including 9,800 tons returned on schedules for other trades.

Table V B.—Principal products made for sale

Kind of output	1935			1934	
	Quantity	Value	Entries	Quantity	Value
Paper (not exceeding in substance 90 lbs. D.C. 20" x 30", 480 sheets) :-	Th. tons	£'000	No.	Th. tons	£'000
Printing paper, uncoated:-					
Newsprint ...	857.3	8,051	14	838.5	7,695
Other :-					
Hand-made ...	0.3	70	5	377.3	7,582
Machine-made ...	391.5	7,714	80		
Total—Printing paper	1,249.1	15,835	...	1,215.8	15,277
Writing paper in large sheets :-					
Hand-made ...	0.4	79	5	140.2	4,682
Machine-made ...	145.9	4,781	57		
Packing and wrapping paper :-					
M.G. paper :-					
Kraft ...	27.1	446	24	24.5	409
Litho poster ...	13.4	296	18	13.0	294
Sulphite ...	15.9	291	25	23.1	408
Cap and bag paper ...	0.7	15	3		
Envelope ...	18.9	317	15	19.3	335
Manilla ...	6.2	155	22	6.6*	153*
Coloured ...	11.4	228	27	10.6	219
Cap (common grocers' and drapers') ...	1.2	22	8	1.4	29
Brown and skip (excluding kraft) ...	6.4	81	12	6.8	80
Other sorts ...	13.5	260	21	13.8*	270*
Total—M.G. paper ...	114.7	2,111	...	119.1	2,197
Fourdrinier :-					
Kraft ...	86.3	1,359	25	76.8	1,201
Glazed and unglazed wrapping paper ...	34.3	644	32	45.2	851
Common brown ...	17.0	155	36	17.2	161
All other brown ...	18.9	238	24	17.4	219
Straw paper ...	38.9	324	19	30.2	266
Cap ...	0.2	4	5	0.4	8
Sugar and fruit wrappings ...	0.6	7	8	0.6	7
Sugar bag paper (reels or sheets) ...	4.8	53	8	5.1*	63*
Other sorts ...	27.3	516	32	23.3*	388*
Total—Fourdrinier ...	228.3	3,300	...	216.2	3,164
Total—Packing and wrapping paper (other than greaseproof, transparent cellulose wrapping and oiled, waxed and other waterproof wrappings)	343.0	5,411	...	335.3	5,361
Greaseproof paper :-					
Glazed transparent ...	3.2	101	7	2.1	56
Other sorts ...	11.0	214	9	10.7	204
Oiled, waxed and other waterproof wrappings, not elsewhere specified	25.4	1,131	19	24.2	1,111
Tissue paper ...	2.9	324	7	3.4	363
Cigarette paper ...	3.8	451	5	3.6	420
Blotting paper :-					
Filter paper ...	0.5	63	8	0.5	63
Other sorts ...	5.5	326	17	5.5	318

Vegetable parchment (including vegetable parchment substitutes or imitations) ...	14.0	443	6	14.0	450
Transparent cellulose wrapping ...	2.5	448	4	1.9	398
Other sorts of uncoated paper ...	20.2	606	23	14.8	477
Coated papers:—					
Coated with white coating on one side only...	12.1	468	19	71.3†	2,977†
Coated with white coating on both sides ...	36.7	1,304	16		
Coated with metal or coloured materials on one or both sides ...	12.9†	582†	16		
Other sorts (except waterproof wrappings and roofing paper) ...	11.6†	656†	15		
Roofing paper, tarred and other ...	28.2	340	6	27.2*	319*
TOTAL—Paper of all kinds ...	1,928.9	33,563	...	1,870.5	32,476
Board (exceeding in substance 90 lbs. D.C. 20" x 30", 480 sheets):—					
Strawboard, leatherboard and imitation leatherboard ...	70.7	662	25	55.0	508
Wallboards and composite boards ...	8.2	169	4	8.2	173
Cardboard and millboard not elsewhere specified:—					
Coated on one or both sides ...	28.5	794	15	197.4	3,150
Uncoated:—					
Machine glazed ...	22.2	454	11		
Other than machine glazed ...	169.7	2,167	42		
Other board ...	10.3	148	13	1.4	122
Vulcanised fibre board ...	1.3	132	3		
Insulating pressboards§ ...	1.7	106	...		
Middles§ ...	8.8	118	5	9.5	207
TOTAL—Board ...	321.4	4,750	...	271.5	4,160
Work done for the trade:—					
Paper coating, waxing etc.	...	79†	8	...	64||
Other work ...	...	10||	9		
TOTAL—Work done for the trade ...	...	89||	...	...	64||
TOTAL—PRINCIPAL PRODUCTS ...	...	38,524	...	...	36,700

* Corrected figure.

† Described as "Art" (37,300 tons, £1,353,000) and "Other sorts, except waterproof wrappings and roofing paper" (34,000 tons, £1,624,000).

‡ Including the following output recorded by firms in trades which were not covered by the 1934 Inquiry:—

Coated papers:—	Th. tons	£'000
Coated with metal or coloured materials on one or both sides ...	0.5	21
Other sorts (except waterproof wrappings and roofing paper) ...	0.1	8
Paper coating, waxing, etc. ...	...	18

§ So far as recorded separately.

|| Amount received.

The figures shown in the preceding table include the following output recorded by firms whose returns were made on schedules for other trades and are not, therefore, included in Table I A.

Kind of output	1935			1934	
	Quantity	Value	Entries	Quantity	Value
	Th. tons	£'000	No.	Th. tons	£'000
Oiled, waxed and other waterproof wrappings, not elsewhere specified ...	0.5	20	7	—	—
Cigarette paper ...	*	1	1	—	—
Other sorts of uncoated paper ...	0.1	8	1	0.4	13
Coated papers:—					
Coated with metal or coloured materials on one or both sides ...	0.5	21	1	—	—
Other sorts (except waterproof wrappings and roofing paper) ...	0.1	8	1	}	}
Strawboard, leatherboard and imitation leatherboard ...	0.1	50	5		
Work done for the trade ...	...	20†	2	—	—
TOTAL ...	...	129	...	...	13

* Less than 50 tons.

† Amount received.

Table V C.—Output for sale of certain principal products, 1924-1935

Kind of output	1924	1930	1933*	1934	1935
Printing paper uncoated:—					
Newsprint ...	499.7	650.7	736.8	838.5	857.3
Other ...	313.7	357.4	354.5	377.3	391.8
Total—Printing paper	813.4	1,008.1	1,091.3	1,215.8	1,249.1
Writing paper in large sheets ...	17,985	18,260	14,360	15,277	15,835
Packing and wrapping paper (other than greaseproof transparent cellulose wrapping and oiled, waxed and other waterproof wrappings) ...	5,261	4,466	4,463	4,682	4,860
issue and cigarette paper ...	159.3	227.4	305.6	335.3	343.0
Blotting paper:—	3,290	4,568	5,044	5,361	5,411
Filter paper ...	5.5	5.5	6.2	7.0	6.7
Other sorts ...	982	753	717	783	775
Coated papers ...	0.1	0.4	0.5	0.5	0.5
Roofing paper, tarred and other ...	35	48	58	63	63
Oiled, waxed and other waterproof wrappings, not elsewhere specified ...	5.3	4.9	5.2	5.5	5.5
Other kinds of paper ...	340	296	304	318	326
Total—Paper of all kinds ...	64.5	66.9	48.6	71.3	76.0†
Total—Paper of all kinds ...	3,224	3,351	2,932	2,977	3,132
Other sorts ...	7.9	16.0	24.1	27.2	28.2
Oiled, waxed and other waterproof wrappings, not elsewhere specified ...	165	218	268	319	340
Other kinds of paper ...	6.6	6.1	35.1	24.2	25.4
Total—Paper of all kinds ...	435	267	1,111	1,111	1,131
Other kinds of paper ...	205	569	1,162	—	—
Total—Paper of all kinds ...	11.1	17.5	43.5	43.5	50.9
Other kinds of paper ...	408	673	1,585	1,585	1,812
TOTAL—Paper of all kinds ...	1,189.0	1,463.1	1,648.3	1,870.5	1,931.6
Total—Paper of all kinds ...	32,330	33,469	28,408	32,476	33,685

Strawboard, leather-board, imitation leatherboard and vulcanised fibre board ...	Th. tons	3.7	6.3	45.2	56.4	72.0
	£'000	181	150	543	630	794
Cardboard, millboard and wallboards ...	Th. tons	102.8	171.8	171.5	205.6	238.9
	£'000	2,115	3,007	2,927	3,323	3,732
Insulating pressboards and middles ...	Th. tons	†	†	8.9	9.5	10.5
	£'000	†	†	165	207	224
Total—Board ...	Th. tons	106.5	178.1	225.6	271.5	321.4
	£'000	2,296	3,157	3,635	4,160	4,750
Other goods and Work done for the trade ...	£'000	111	379	15	64	89
TOTAL—PRINCIPAL PRODUCTS ...	£'000	34,737	37,005	32,058	36,700	38,524

* See footnote (*) to Table I A.

† Including an estimate in respect of output returned by value only.

‡ Not recorded separately.

Table VI.—Average values of goods produced, exported and imported

Kind of goods	Production (at factory)			Exports (f.o.b.)		Imports (c.i.f.)	
	Average value		1935 as a percentage of 1934	Average value		Average value	
	1935	1934		1935	1934	1935	1934
	£ per ton	£ per ton	Per cent.	£ per ton	£ per ton	£ per ton	£ per ton
Paper (not exceeding in substance 90 lbs. D.C. 20" x 30", 480 sheets):							
Printing paper, uncoated:—							
Newsprint ...	9.4	9.2	102.3	9.2	10.5	9.4	9.6
Other ...	19.9	20.1	98.9	29.7	28.4	13.9	13.3
Writing paper in large sheets ...	33.2	33.4	99.6	43.5	42.6	21.4	22.2
Packing and wrapping paper:—							
M.G. paper:—							
Kraft ...	16.4	16.7	98.6	25.3	29.3	13.9	14.0
Litho poster ...	22.1	22.6	97.9				
Sulphite, cap and bag paper ...	18.5	17.7	104.4				
Envelope ...	16.8	17.4	96.7				
Manilla ...	25.1	23.1	108.4	*	*	*	*
Coloured ...	20.0	20.7	96.3				
Cap (common grocers)	14.9	14.3	104.0				
Brown and skip (excluding kraft) ...	12.6	11.8	107.2				
Other sorts ...	19.2	19.5	98.5				
Other than Kraft ...	19.0	18.9	100.7	25.7	31.2	13.3	13.8

Fourdrinier:—							
Kraft ...	15.8	15.6	100.7	28.2	26.7	12.9	12.7
Glazed and unglazed wrapping paper ...	18.7	18.8	99.6				
Common brown ...	9.1	9.4	97.5				
All other brown ...	12.6	12.6	99.9				
Straw paper ...	8.3	8.8	94.4	*	*	*	*
Sugar and fruit wrappings ...	12.0	12.2	98.4				
Sugar bag paper (reels or sheets) ...	11.2	12.5	90.0				
Other sorts ...	18.9	16.7	113.1				
Other than Kraft ...	13.7	14.1	97.0	28.5	28.1	23.3	20.9
All packing and wrapping paper (other than greaseproof, transparent cellulose wrapping and oiled, waxed and other waterproof wrappings ...	15.8	16.0	98.7	28.0	33.0	13.7	14.8
Greaseproof paper:—							
Glazed transparent ...	31.8	27.2	116.9				
Other sorts ...	19.5	19.1	102.1	33.3	32.3	15.5	16.1
Oiled, waxed and other waterproof wrappings, not elsewhere specified	44.6	46.0	96.9	47.7	45.6	48.5	44.8
Tissue paper ...	110.1	107.6	102.3	162.0	177.6	23.8	25.5
Cigarette paper ...	120.1	116.7	102.9	117.5	117.7	250.4	243.4
Blotting paper:—							
Filter paper ...	136.6	118.6	115.2	244.1	264.2		
Other sorts ...	58.8	57.8	101.7	52.5	52.1	46.0	41.6
Vegetable parchment (including vegetable parchment substitutes or imitations) ...	31.7	32.1	98.8	*	*	*	*
Transparent cellulose wrapping ...	179.6	205.1	87.6	184.7	205.6	177.1	181.8
Coated papers:—							
Photographic (not sensitised) ...	118.2	100.5	117.6	174.3	178.3	83.6	79.0
Coated with white coating on one side only ...	38.8			41.1	*	43.5	*
Coated with white coating on both sides ...	35.5			39.8	*		*
Coated with metal or coloured materials on one or both sides ...	45.0	40.1	97.7				
Other sorts (except waterproof wrappings and roofing paper) ...	45.6			127.7	*	71.7	*
Total—Coated papers	41.0	41.8	98.2	91.4	103.2	69.8	67.7
Roofing paper, tarred and other ...	12.0	11.7	102.6	*	*	*	*
Boards (exceeding in substance 90 lbs. D.C. 20" x 30", 480 sheets):—							
Strawboard ...	7.9	7.5	104.5	16.7	21.5	5.9	5.9
Leatherboard and imitation leatherboard	16.5	17.0	97.2	22.4	26.3	10.1	10.7
Wallboards and compo-boards ...	20.8	20.9	99.1	26.4	28.9	15.7	15.6
Cardboard and millboard ...	15.4	16.0	96.7	27.9	26.9	13.5	13.3
Vulcanised fibre board ...	98.8	87.9	112.4	*	*	*	*
Insulating pressboards	64.0	63.0	101.5	*	*	*	*
Middles ...	13.3	13.9	96.0	*	*	*	*

* Not recorded separately.

Table VII.—Volume of Production, 1924-1935

Kind of output	Total production			Production index (1935=100)			
	1935 as returned	1934		1924	1930	1933	1934
		As returned	At 1935 average values				
	£'000	£'000	£'000	Per cent.	Per cent.	Per cent.	Per cent.
Printing paper, uncoated:—							
Newsprint	8,051	7,695	7,874	58	76	86	98
Other	7,784	7,582	7,497	78	92	90	96
Writing paper in large sheets	4,860	4,682	4,661	80	79	90	96
Packing and wrapping paper (other than greaseproof, transparent cellulose wrapping and oiled, waxed and other waterproof wrappings)	5,411	5,361	5,393	47	67	91	100
Tissue and cigarette paper	775	783	803	82	82	93	104
Blotting paper	389	381	397	85	87	98	102
Coated papers	3,132	2,977	2,922	83	88	78*	95*
Roofing paper	340	319	327		57	85	96
Vegetable parchment and greaseproof paper, including vegetable parchment substitutes or imitations	758	710	718		21	71	95
Wallboards	169	173	172		91	102	102
Cardboard and millboard	3,563	3,150	3,048	43	73	72*	86
Strawboard, leatherboard, imitation leatherboard and vulcanised fibre board	794	630	655		16	68	82
Other principal products	2,409	2,193	2,072	19	34	95*	86
Work done for the trade	89	64	64	54	74	22*	90*
TOTAL	38,524	36,700	36,603	59	74	86*	100*

* See footnotes (*) to Table I A and (†) to Table V B; the 1935 base figures have been adjusted in calculating these indices.
† Included with other principal products.

Table VIII.—Production in relation to Exports and Imports

Kind of goods	Production	Exports	Proportion of production exported	Retained imports	Available for use in the United Kingdom	Share of home market held by British goods
Paper (not exceeding in substance 90 lbs. D.C. 20" x 30", 480 sheets):—						
Printing paper, uncoated:—						
Newsprint	1935 857.3	70.4	8.2	366.0	1,152.9	68.3
Other sorts	1934 838.5	59.3	7.1	372.0	1,151.2	67.7
Other sorts	1935 391.8	48.4	12.4	11.6	355.0	96.7
Other sorts	1934 377.3	48.5	12.9	13.6	342.4	96.0
Writing paper in large sheets	1935 46.3	11.8	8.1	7.4	141.9	94.8
Writing paper in large sheets	1934 140.2	11.7	8.4	7.4	135.9	94.6
Packing and wrapping paper*	1935 343.0	6.8	2.0	181.6	517.8	64.9
Packing and wrapping paper*	1934 335.3	5.9	1.8	176.1	505.5	65.2
Greaseproof paper†	1935 14.2	3.3	23.3	58.0	68.9	15.8
Greaseproof paper†	1934 12.8	4.5	35.0	53.8	62.1	13.3
Transparent cellulose wrapping	1935 2.5	0.5	19.2	0.7	2.7	74.6
Transparent cellulose wrapping	1934 1.9	0.2	11.3	0.8	2.5	69.4

Oiled, waxed and other waterproof wrappings	1935 25.4	2.3	8.9	0.6	23.7	97.3
Oiled, waxed and other waterproof wrappings	1934 24.2	2.1	8.6	0.4	22.5	98.1
Tissue paper	1935 2.9	0.8	26.6	25.6	27.7	7.8
Tissue paper	1934 3.4	0.7	20.4	20.8	23.5	11.4
Cigarette paper... ..	1935 3.8	1.1	30.4	0.7	3.4	77.8
Cigarette paper... ..	1934 3.6	1.2	34.2	0.7	3.1	76.1
Blotting paper:—						
Filter paper	1935 0.5	0.2	37.3	0.0	0.3	91.7
Filter paper	1934 0.5	0.1	24.8	0.0	0.4	91.3
Other sorts	1935 5.5	1.8	33.3	0.1	3.8	97.5
Other sorts	1934 5.5	1.7	30.0	0.1	3.9	97.1
Coated papers:—						
Coated with white coating on one side only	1935 12.1	0.9	7.3	0.3	11.5	97.6
Coated with white coating on both sides... ..	1935 36.7	2.0	5.5	0.0	34.7	99.9
Other sorts (except waterproof wrappings and roofing paper)	1935 27.2	4.1	15.1	5.6	28.7	80.6
Total—Coated papers... ..	1935 76.0	7.0	9.2	5.9	74.9	92.2
Total—Coated papers... ..	1934 71.3	5.5	7.7	5.4	71.2	92.3
Board (exceeding in substance 90 lbs. D.C. 20" x 30", 480 sheets):—						
Strawboard, leatherboard and imitation leatherboard	1935 71.8	1.4	1.9	213.8	284.2	24.8
Strawboard, leatherboard and imitation leatherboard	1934 56.2	1.4	2.4	233.3	288.1	19.0
Wallboards and compo-boards	1935 8.2	0.7	9.0	23.3	30.8	24.1
Wallboards and compo-boards	1934 8.3	0.5	6.0	19.1	26.9	28.9
Cardboard and millboard:—						
Coated on one or both sides	1935 26.7	0.4	1.6	16.6	42.9	61.3
Other sorts†	1935 270.7	8.9	3.3	138.4	400.2	65.4
Total—Cardboard and millboard	1935 297.4	9.3	3.1	155.0	443.1	65.0
Total—Cardboard and millboard	1934 258.4	9.8	3.8	134.3	382.9	64.9

* Other than greaseproof, transparent cellulose wrapping and oiled, waxed and other waterproof wrappings.

† The figures for exports and imports include glazed imitation parchment and glazed transparent and imitation kraft and imitation greaseproof papers. These classes were not distinguished separately for production.

‡ Including, for imports and exports, middles, and for 1935, vulcanised fibre board.

† Including kraft board for imports and exports.

The production figures for the various descriptions of paper shown in the preceding table represent the quantities recorded as made for sale in each year and do not include quantities used in the maker's own works for further manufacture. The following statement gives particulars corresponding to those in the table and relating to paper of all kinds, the production figures given being the total make.

Particulars	1935	1934
Total production of paper	Th. tons 1,893.0	Th. tons 1,859.5
Exports	154.5	141.3
Retained imports	661.7	654.6
Available for use in the United Kingdom	2,400.2	2,374.8
Proportion of production exported	Per cent. 8.2	Per cent. 7.6
Share of the home market held by British goods	72.4	72.8

Table IX.—Other output of the Paper Trade

The value of the gross output of the firms whose returns were made on schedules for the Paper Trade was £40,624,000 in 1935 and £38,732,000 in 1934 of which £38,395,000 in 1935 and £36,687,000 in 1934 consisted of products included in Table V B. Particulars of the remaining items are shown below.

Kind of output	1935	1934
	£'000	£'000
Fibre board packing cases	848	1,012
Paper bags	614	326
Boxes and cartons made of paper or cardboard	15	6
Paper tubes and bobbins	86	95
Purchased paper, corrugated, creped, crinkled, etc., for sale	65	62
Other articles of paper and board	401	383
Stiffeners for boots and shoes	52	51
Sanitary towels	48	42
Other goods	64	68
Electricity and waste heat sold	36	*
TOTAL	2,229	2,045

* Not recorded separately.

MATERIALS AND FUEL

Table X A.—Materials, fuel and electricity purchased and used

Kind of materials, etc.	1935		1934	
	Quantity	Cost	Quantity	Cost
	Th. tons	£'000	Th. tons	£'000
Mechanical wood pulp*	647.5	2,750	830.9	3,305
Chemical wood pulp*	865.0	6,608	828.8	6,604
Esparto	285.6	1,264	280.6	1,219
Waste paper	412.8	1,001	375.1	1,086
Rags:—				
Linen and cotton	45.2	619	75.7	748
Other sorts	16.0	91		
Other fibrous materials	34.1	383	†	†
China clay and other loadings	223.6	521	205.8‡	373‡
Fuel and electricity used for all purposes:—				
Coal	3,005.3	2,294	...	10,171
Coke	3.5	4		
Heavy fuel oil	254	5		
Purchased electricity§	(Kw.-hrs.)	243		
All other purchased materials and fuel		7,953		
TOTAL		23,736		23,506

* Specified as "air dry weight" for 1935.

† Not recorded separately.

‡ Described as "China clay"

§ Including electricity generated in other works under the same ownership.

Table X B.—Consumption of coal, coke and electricity in 1935 and 1930

Kind of fuel	1935	1930
	Th. tons	Th. tons
Coal	3,005.3	2,427.2
Coke	3.5	1.8
	Th. B.T.U. (Kw.-hrs.)	Th. B.T.U. (Kw.-hrs.)
Electricity:—		
Generated in same works	1,074,252	623,308
Generated in other works under same ownership	2,227	4,008
Purchased	124,924	96,639
Total electricity consumed	1,201,403	723,955

EMPLOYMENT

Table XI A.—Average numbers employed in 1935 and 1934

Persons employed	Males		Females		Total	
	Under 18	All ages	Under 18	All ages	Under 18	All ages
Operatives (average for the year)	2,754	41,217	3,537	13,298	6,291	54,515
Administrative, technical and clerical staff*	2,529	40,344	2,890	12,511	5,419	52,855
	1935	253	3,883	191	1,350	444
	1934	192	3,732	179	1,287	371
TOTAL	1935	3,007	45,100	3,728	14,648	6,735
	1934	2,721	44,076	3,069	13,798	5,790

* As at 12th October, 1935, and 13th October, 1934.

Table XI B.—Operatives employed in one week in each month of 1934 and 1935 by firms furnishing returns in respect of the twelve months ended December

Mid week of*	Operatives employed		Monthly index†		
	1934	1935	1933‡	1934	1935
January	26,086	27,915	90.4	95.8	97.8
February	26,183	28,137	89.5	96.1	98.6
March	26,207	27,941	90.6	96.2	97.9
April	26,226	28,212	91.5	96.3	98.8
May	26,393	28,390	92.6	96.9	99.4
June	26,597	28,361	92.5	97.6	99.4
July	26,251	28,594	92.3	96.4	100.2
August	26,187	28,451	93.9	96.1	99.7
September	26,477	28,824	95.0	91.8	101.0
October	26,556	29,056	95.3	97.5	101.8
November	26,902	29,289	94.9	98.8	102.6
December	26,857	29,350	95.3	98.6	102.8
Average for the twelve months	26,410	28,543	92.8	96.5	100.0
Proportion of total operatives represented	49.97	52.36	...	...	...

* For the ending date of each week see page xiv.

† Based on the estimated average for the year 1935.

‡ Owing to the exclusion from the Inquiry for this year of firms engaged solely in the processing of purchased paper (see footnote (*) to Table I A), the base figure has been adjusted in calculating these indices.

Table XI C.—Average numbers employed, 1924-1935

Year	Operatives	Administrative, technical and clerical staff	Total
1924	47,854	3,380	51,234
1930	49,436	4,078	53,514
1933*	48,860	4,355	53,215
1934	52,855	5,019	57,874
1935	54,515	5,233	59,748

* See footnote (*) to Table I A.

WAGES

Table XII.—Wages paid by firms furnishing returns of wages in 1935 and 1930

The aggregate amount of wages paid by firms furnishing returns of wages was £5,925,000 in 1935 representing 42.4 per cent. of the net output of these firms, the corresponding figures for 1930* being £4,451,000 and 48.0 per cent. The figures for these firms given below indicate the size of the sample and the extent to which it is representative.

Firms furnishing returns of wages	1935		1930*	
	Aggregate	Proportion of trade	Aggregate	Proportion of trade
	£'000	Per cent.	£'000	Per cent.
Gross output... ..	33,454	82.4	26,720	70.3
Net output	13,977	83.0	9,273	70.0
Operative staff employed :—	No.		No.	
During mid-week of October :—				
Males	34,277	82.3	†	†
Females	10,624	79.1		
Total	44,901	81.5	34,088	70.0
Average for the year	44,520	81.7	34,089	69.6
Administrative, technical and clerical staff	4,210	80.5	†	†
Number of establishments	198	74.2	...	...

* Great Britain only.

† Not recorded separately.

COUNTRY TABLES (1935)

Note.—The figures given in the following tables relate only to firms whose returns were made on schedules for the Paper Trade.

Owing to the possible disclosure of information relating to individual firms, separate particulars for Northern Ireland cannot be given in Tables II A, II P and III A.

Table I.—General summary

Particulars	Unit	England and Wales	Scotland	Great Britain	Northern Ireland
Value of products (Gross output)	£'000	32,927	7,407	40,334	290
Cost of materials fuel and electricity used	"	19,341	4,210	23,551	185
Amount paid for work given out	"	53	1	54	—
Net output	"	13,533	3,196	16,729	105
Average number of persons employed	No.	46,227	13,013	59,240	508
Net output per person employed	£	293	246	282	207
Number of returns	No.	201	50	251	3
Number of establishments	"	213	51	264	3

Table II A.—Total make of the following products

(including output used for further manufacturing purposes in the same works)

Kind of goods	England and Wales and Northern Ireland	Scotland	United Kingdom.
	Th. tons	Th. tons	Th. tons
Paper (not exceeding in substance 90 lbs. D.C. 20" x 30", 480 sheets) :—			
M.G.	154.4	24.0	178.4
Other	1,458.7	232.1	1,690.8
Felt paper	*	*	23.8
Board (exceeding in substance 90 lbs. D.C. 20" x 30", 480 sheets) :—			
Strawboard, leatherboard and imitation leatherboard	71.4	0.4	71.8
Wallboards and compo-boards	8.2	—	8.2
Cardboard and millboard :—			
Coated on one or both sides	25.9	0.8	26.7
Uncoated :—			
M.G.	19.1	3.2	22.3
Other	225.1	13.5	238.6

* Owing to the possible disclosure of information relating to individual firms, separate particulars cannot be given.

Table II B.—Output made for sale

Kind of output	Unit	England and Wales and Northern Ireland	Scotland	United Kingdom
Paper (not exceeding in substance 90 lbs. D.C. 20" x 30", 480 sheets) :—				
Printing paper, uncoated :—				
Newsprint	Th. tons } £'000 }	* } * }	* } * }	857.3 } 8,051 }
Other :—				
Hand-made	Th. tons } £'000 }	0.3 } 70 }	— } — }	0.3 } 70 }
Machine made	Th. tons } £'000 }	295.7 } 5,404 }	95.8 } 2,310 }	391.5 } 7,714 }
Writing paper in large sheets :—				
Hand-made	Th. tons } £'000 }	0.4 } 79 }	— } — }	0.4 } 79 }
Machine made	Th. tons } £'000 }	90.0 } 3,128 }	55.9 } 1,653 }	145.9 } 4,781 }
Packing and wrapping paper :—				
M.G. paper :—				
Kraft	Th. tons } £'000 }	23.1 } 378 }	4.0 } 68 }	27.1 } 446 }
Lithoposter	Th. tons } £'000 }	* } * }	* } * }	13.4 } 296 }
Sulphite	Th. tons } £'000 }	* } * }	* } * }	15.9 } 291 }
Cap and bag paper	Th. tons } £'000 }	0.7 } 15 }	— } — }	0.7 } 15 }
Envelope	Th. tons } £'000 }	* } * }	* } * }	18.9 } 317 }
Manilla	Th. tons } £'000 }	4.7 } 117 }	1.5 } 38 }	6.2 } 155 }
Coloured	Th. tons } £'000 }	10.3 } 201 }	1.1 } 27 }	11.4 } 228 }
Cap (common grocers' and drapers')	Th. tons } £'000 }	1.2 } 22 }	— } — }	1.2 } 22 }
Brown and skip (excluding kraft)	Th. tons } £'000 }	* } * }	* } * }	6.4 } 81 }
Other sorts	Th. tons } £'000 }	11.9 } 213 }	1.6 } 47 }	13.5 } 260 }
Total—M.G. papers	Th. tons } £'000 }	101.7 } 1,844 }	13.0 } 267 }	114.7 } 2,111 }

Kind of output	Unit	England and Wales and Northern Ireland	Scotland	United Kingdom
Packing and wrapping paper (cont'd)—				
Fourdrinier :—				
raft	Th. tons	82.7	3.6	86.3
	£'000	1,300	59	1,359
Glazed and unglazed wrapping paper	Th. tons	32.2	2.1	34.3
	£'000	605	39	644
Common brown	Th. tons	12.5	4.5	17.0
	£'000	109	46	155
All other brown	Th. tons			18.9
	£'000			238
Straw paper	Th. tons	*	*	38.9
	£'000			324
Cap	Th. tons			0.2
	£'000			4
Sugar and fruit wrappings	Th. tons	0.6	—	0.6
	£'000	7	—	7
Sugar bag paper (reels or sheets)	Th. tons	4.7	—	4.7
	£'000	53	—	53
Other sorts	Th. tons	21.2	6.1	27.3
	£'000	389	127	516
Total—Fourdrinier	Th. tons	210.8	17.5	228.3
	£'000	3,018	282	3,300
Total—Packing and wrapping paper (other than greaseproof, transparent cellulose wrapping and oiled, waxed and other waterproof wrappings)	Th. tons	312.5	30.5	343.0
	£'000	4,862	549	5,411
Greaseproof paper :—				
Glazed transparent	Th. tons	3.2	—	3.2
	£'000	101	—	101
Other sorts	Th. tons			11.0
	£'000	*	*	214
Oiled, waxed and other waterproof wrappings, not elsewhere specified	Th. tons			24.9
	£'000			1,111
Tissue paper	Th. tons	2.9	—	2.9
	£'000	324	—	324
Cigarette paper	Th. tons	3.8	—	3.8
	£'000	450	—	450
Blotting paper :—				
Filter paper	Th. tons	*	*	0.5
	£'000			63
Other sorts	Th. tons	3.0	2.5	5.5
	£'000	205	121	326
Vegetable parchment (including vegetable parchment substitutes or imitations)				
	Th. tons	14.0	—	14.0
	£'000	443	—	443
Transparent cellulose wrapping				
	Th. tons	2.5	—	2.5
	£'000	448	—	448
Other sorts of uncoated paper				
	Th. tons	6.4	13.7	20.1
	£'000	177	421	598
Coated papers :—				
Coated with white coating on one side only	Th. tons	6.2	5.9	12.1
	£'000	249	219	468
Coated with white coating on both sides	Th. tons	10.9	25.8	36.7
	£'000	390	914	1,304
Coated with metal or coloured materials on one or both sides	Th. tons	8.7	3.7	12.4
	£'000	408	153	561
Other sorts (except waterproof wrappings and roofing paper)	Th. tons	7.2	4.3	11.5
	£'000	462	186	648
Roofing paper, tarred and other				
	Th. tons	*	*	28.2
	£'000			340
Total—Paper of all kinds...	Th. tons	1,664.9	262.8	1,927.7
	£'000	26,717	6,788	33,505
	£'000	—	72	72

Kind of output	Unit	England and Wales and Northern Ireland	Scotland	United Kingdom
Board (exceeding in substance 90 lbs. D.C. 20" x 30", 480 sheets) :—				
Strawboard, leatherboard and imitation leatherboard	Th. tons	70.3	0.3	70.6
	£'000	655	6	661
Wallboards and compo-boards	Th. tons	8.2	—	8.2
	£'000	169	—	169
Cardboard and millboard, not elsewhere specified :—				
Coated on one or both sides	Th. tons	27.9	0.6	28.5
	£'000	772	22	794
Uncoated :—				
Machine glazed	Th. tons	19.1	3.1	22.2
	£'000	362	92	454
Other than machine glazed	Th. tons	157.7	12.0	169.7
	£'000	1,933	234	2,167
Other board	Th. tons	8.6	1.7	10.3
	£'000	107	41	148
Vulcanised fibre board	Th. tons	1.3	—	1.3
	£'000	132	—	132
Insulating pressboards†	Th. tons	1.7	—	1.7
	£'000	106	—	106
Middles†	Th. tons	*	*	8.8
	£'000			118
Total—Board	Th. tons	*	*	321.3
	£'000			4,749
Fibre board packing cases	£'000	848	—	848
Paper bags	£'000	505	109	614
Boxes and cartons made of paper or cardboard	£'000	—	15	15
Paper tubes and bobbins	£'000	86	—	86
Purchased paper, corrugated, creped, crinkled, etc., for sale	£'000	65	—	65
Other articles of paper and board	£'000	391	10	401
Stiffeners for boots and shoes	£'000	52	—	52
Sanitary towels	£'000	48	—	48
Other goods	£'000	*	*	64
Electricity and waste heat sold	£'000	36	—	36
Work done for the trade :—				
Paper coating, waxing, etc.	£'000	*	*	61†
Other work	£'000	8‡	—	8‡
TOTAL—VALUE OF GOODS MADE AND WORK DONE	£'000	33,217	7,407	40,624

* Owing to the possible disclosure of information relating to individual firms separate particulars cannot be given.

† So far as recorded separately.

‡ Amount received.

Table III A.—Materials, fuel and electricity purchased and used

Kind of materials, etc.	Unit	England and Wales and Northern Ireland	Scotland	United Kingdom
Mechanical wood pulp ...	Th. tons	629.4	18.1	647.5
	£'000	2,666	84	2,750
Chemical wood pulp ...	Th. tons	756.7	108.3	865.0
	£'000	5,698	910	6,608
Esparto ...	Th. tons	82.6	203.0	285.6
	£'000	371	893	1,264
Waste paper ...	Th. tons	386.0	26.8	412.8
	£'000	904	97	1,001
Rags :—				
Linen and cotton ...	Th. tons	36.7	8.5	45.2
	£'000	509	110	619
Other sorts ...	Th. tons	15.1	0.9	16.0
	£'000	88	3	91
Other fibrous materials ...	Th. tons	30.1	4.0	34.1
	£'000	345	38	383
China clay and other loadings ...	Th. tons	180.4	43.2	223.6
	£'000	420	101	521
Fuel and electricity used for all purposes :—				
Coal ...	Th. tons	2,321.0	684.3	3,005.3
	£'000	1,935	359	2,294
Coke ...	Th. tons	3.5	*	3.5
	£'000	4	†	4
Heavy fuel oil ...	Th. galls.	252	2	254
	£'000	5	†	5
Purchased electricity ‡	B.T.U. (Kw.-hrs.)	116,565	10,586	127,151
	£'000	221	22	243
All other purchased materials and fuel	£'000	6,360	1,593	7,953
TOTAL ...	£'000	19,526	4,210	23,736

* Less than 50 tons.

† Less than £500.

‡ Including electricity generated in other works under the same ownership.

Table III B.—Consumption of electricity

Electricity consumed	England and Wales	Scotland	Great Britain	Northern Ireland
	Th. B.T.U. (Kw.-hrs.)	Th. B.T.U. (Kw.-hrs.)	Th. B.T.U. (Kw.-hrs.)	Th. B.T.U. (Kw.-hrs.)
Generated in same works ...	889,091	178,425	1,067,516	6,736
Generated in other works under same ownership ...	2,227	—	2,227	—
Purchased ...	114,338	10,586	124,924	—
Total ...	1,005,656	189,011	1,194,667	6,736

Table IV A.—Numbers employed in week ended 12th October, 1935

Persons employed	Males		Females		Total	
	Under 18	All ages	Under 18	All ages	Under 18	All ages
England and Wales :—						
Operatives ...	2,305	32,944	2,569	9,622	4,874	42,566
Administrative, etc.* ...	215	3,169	140	1,001	355	4,170
Total ...	2,520	36,113	2,709	10,623	5,229	46,736
Scotland :—						
Operatives ...	449	8,346	963	3,659	1,412	12,005
Administrative, etc.* ...	38	696	49	339	87	1,035
Total ...	487	9,042	1,012	3,998	1,499	13,040
Great Britain :—						
Operatives ...	2,754	41,290	3,532	13,281	6,286	54,571
Administrative, etc.* ...	253	3,865	189	1,340	442	5,205
TOTAL ...	3,007	45,155	3,721	14,621	6,728	59,776
Northern Ireland :—						
Operatives ...	28	342	41	151	69	493
Administrative, etc.* ...	—	18	2	10	2	28
Total ...	28	360	43	161	71	521

* Administrative, technical and clerical staff.

Table IV B.—Operatives employed in one week in each month of 1935

Week ended	Males and females			
	England and Wales	Scotland	Great Britain	Northern Ireland
January 19 ...	41,402	11,884	53,286	477
February 16 ...	41,457	11,939	53,396	484
March 16 ...	41,200	11,933	53,133	479
April 13 ...	41,611	11,945	53,556	467
May 18 ...	41,758	11,990	53,748	473
June 15 ...	41,643	11,996	53,639	464
July 13 ...	42,035	12,005	54,040	472
August 17 ...	41,995	11,894	53,889	463
September 14 ...	43,335	11,992	55,327	491
October 12 ...	42,566	12,005	54,571	493
November 16 ...	42,826	12,058	54,884	494
December 14 ...	42,857	12,094	54,951	500
Average for the twelve months ...	42,057	11,978	54,035	480

Table V.—Firms employing not more than ten persons on the average

Particulars	England and Wales	Scotland	Great Britain	Northern Ireland
Number of returns received ...	No. 26	No. 4	No. 30	No. —
Average number of persons employed :—				
Males ...	102	14	116	—
Females ...	44	4	48	—
Total ...	146	18	164	—