



BOARD OF TRADE

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FINAL REPORT
on the
CENSUS OF PRODUCTION
FOR 1948

Volume I
Trade I
GLASS
(OTHER THAN CONTAINERS)

*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 0d. NET

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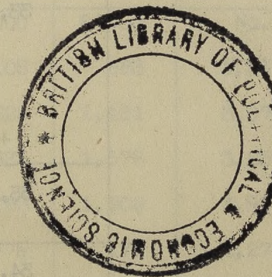
* Not applicable to this trade

GLASS (OTHER THAN CONTAINERS) TRADE

THIS REPORT on the Glass (other than Containers) Trade relates to establishments engaged wholly or mainly in the manufacture of all types of sheet glass (including wired and other "safety" glass), glass rods, glass tubing, domestic glassware, mirrors, leaded lights, lamp glasses and lamp bulbs, scientific and surgical glassware; glass cutting, decorating, engraving, polishing, staining, etc.; and all other glass products other than containers. The manufacture of optical glass is included but the grinding of lenses is excluded.

This trade corresponds to minimum list heading 22 in the Standard Industrial Classification.

Any establishments in Northern Ireland are excluded in 1948; no production was recorded there in this trade for 1937 or 1935.



GLASS (OTHER THAN CONTAINERS) TRADE

Summary

Larger establishments

TABLE 1

	1948	1937	1935
	£'000	£'000	£'000
Gross output (production)	34,283	12,330	10,825
Cost of materials and fuel used	13,131	4,504	4,133
Payment for work done on materials given out	90	21	30
Net output	21,041	7,805	6,462
Wages and salaries of persons employed	12,077	..	..
Average number of persons employed (a)	38,017(b)	29,932	28,436
Net output per person employed (a)	553	261	227
Stocks at end of year	£'000	£'000	£'000
Finished products and work in progress	2,430	..	..
Materials and fuel	2,547	..	..
Number of establishments	No. 272	No. ..	No. 260

(a) Excluding outworkers.

(b) 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)	33,700	12,099	10,337
Other output (see Table 10)	916	231	288
Adjustment for changes in stocks and work in progress (see Table 14)	+419	..	..
Less payment for transport by other firms	35,035 773	12,330	10,825
Gross output (production)	34,283	12,330	10,825
Materials and fuel used by firms in this trade			
Purchases (see Table 13)	13,276	4,504	4,133
Adjustment for changes in stocks (see Table 14)	-145		
Material and fuel used	13,131	4,504	4,133

Summary, 1948

Small firms in Great Britain

TABLE 2

Number of returns	389
Average number of persons employed (a)	
Males	1,881
Females	471
Total	2,352

(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)	38,017
Employing on average ten persons or less (b)	2,352
	40,369
Estimated average employment in firms not making satisfactory returns	97
Estimated average employment in all firms	40,466

(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	77	1,105	663	1,331	315	83	398	498
25-49	86	2,628	1,481	3,075	726	179	905	482
50-99	49	2,632	1,578	3,258	849	190	1,039	484
100-199	28	3,083	1,909	3,981	1,006	237	1,243	479
200-299	10	1,975	1,178	2,279	614	117	731	517
300-399	6	1,276	870	2,136	493	84	577	407
400-499	4	1,714	912	1,774	419	127	546	514
500-999	6	4,409	2,406	4,199	1,085	265	1,350	573
1,000 and over	6	15,442	10,044	15,984	4,085	1,203	5,288	628
Total	272	34,283	21,041	38,017	9,592	2,486	12,077	553

Analysis by standard region, 1948

Larger establishments in Great Britain

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	14	3,370	2,234	10.6	4,548	1,053	180	1,233	
East and West Ridings of Yorkshire	22	2,534	1,671	7.9	3,065	797	198	995	
North Midland; and Eastern	11	428	280	1.3	577	127	31	158	
London and South Eastern	105	7,061	3,796	18.0	7,157	2,029	440	2,469	
Southern	7	279	148	0.7	269	70	21	91	
South Western	6	167	105	0.5	228	51	19	70	
Midland	40	5,654	3,350	15.9	6,883	1,680	470	2,151	
North Western	42	12,866	8,355	39.7	12,625	3,179	1,002	4,181	
Total England	247	32,358	19,938	94.8	35,352	8,987	2,361	11,348	
Wales	10	930	545	2.6	1,167	278	48	326	
Scotland	15	975	558	2.7	1,498	327	76	403	
Great Britain	272	34,263	21,041	100.0	38,017	9,592	2,486	12,077	

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									
Plate or sheet glass silvered or metallised, glass mirrors unframed, framed or backed, but not further assembled, shelves, finger plates, table tops and advertisement tablets	39	1,826	1,517	1,011	1,820	526	95	621	556
Domestic and fancy glassware, including heat resisting glassware	24	4,432	3,432	3,148	6,032	1,487	220	1,707	522
Leaded lights, stained glass and memorial tablets	13	191	151	138	311	77	21	98	443
Safety glass for motor cars, etc.	8	1,966	1,943	818	1,589	329	154	482	515
Remainder of the trade	188	25,847		15,926	28,265	7,173	1,995	9,168	563
Total	272	34,263		21,041	38,017	9,592	2,486	12,077	553

TABLE 7 - Total make of intermediate products: Larger establishments

This table is not applicable to the trade.

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 Sales			1937 Production			1935 Production		
	Quantity		Value	Quantity	Value	Quantity	Value		
	Th. sq. ft.	Th. cwts.	£'000	Th. sq. ft.	£'000	Th. cwts.	£'000		
Plate and sheet glass and rolled or figured glass (including bevelled, decorated or otherwise finished glass (except silvered or metallised glass), but excluding spectacle glass and safety glass for motor cars, etc.) (a)	409,499 5,360 ..	7,223.8	13,239 616 391	..	4,955	..	4,714(b)		
Plate or sheet glass silvered or metallised, and glass mirrors unframed, framed or backed, but not further assembled	6,162 1,898 ..	170.4	1,201 457 456	128	5,784 .. Th. cwts.	780 570	786(c)		
Shelves, finger plates, table tops and advertisement tablets	..	41.6 ..	276 234	91	42.8 ..	129 91	242(d)		
Total plate, sheet, rolled and figured glass			16,870	..	6,525		5,742		
Domestic and fancy glassware	Th. gross					Th. cwts.			
Stemmed glass drinking vessels									
Mouth blown	9.5 ..	4.3 ..	180 24	12	8.9	106	75 16		
Other than mouth blown	-	-	-	-	-	-	-		
Tumblers									
Crystal and semi-crystal	17.2	9.9	246	14	6.7	53			
Other descriptions									
Mouth blown	20.1 ..	8.8 ..	114 12	11	146.4	285			
Other than mouth blown	69.6 362.2	68.9 ..	216 479	9					
Beer mugs	16.1 12.6	22.5 ..	101 50	5			322.4 95		
Carafes and jugs									
Mouth blown	2.1 0.5	5.6 ..	112 18	13					
Other than mouth blown	5.0 14.5	11.0 ..	48 68	6	237.5	668(e)			
Other table glassware and toilet, ornamental and stationery glassware									

TABLE 8 (contd.)

	1948 Sales			1937 Production			1935 Production			
	Quantity		Value	Entries	Quantity	Value	Quantity	Value		
	Th. gross	Th. cwts.	£'000	No.	Th. cwts.	£'000	Th. cwts.	£'000		
Domestic and fancy glassware (contd.)										
Other table glassware and toilet, ornamental and stationery glassware										
Mouth blown	..	30.0	577	25						
	..	..	82							
Other than mouth blown	650.6 93.0 ..	239.3 .. 34.6	1,114 180 150	27						
							
Kitchen-ware, cooking ware, refrigerator jars and trays, etc., other than heat-resisting glassware (f)	..	7.3	37	7	60.6	333	40.2	186		
Illuminating glassware	Thous.	Th. cwts.			Thous.	Th. cwts.	Thous.	Th. cwts.		
Glass bulbs for electric lamps, radio valves, cathode ray tubes, etc. (g)	54,093 109,184	40.3 ..	546 549	..	106,769	69.7	329	89,990	61.1	287
Oil lamp chimneys and miners' lamp glasses	2,533	6.7	127	14	605	1.2	13	644	1.3	15
Hurricane lamp glasses	839 818	3.6 ..	28 13	6	365	3.1	5	95	0.8	1
Globes, bowls and shades, not elsewhere specified	3,190 876	31.3 .. 15.0 ..	509 104 177 55	22	3,526	56.3	343	3,998	55.9	331
							
Other illuminating glassware	..	13.3	257	17	..	12.2	41	..	..	83
	..	..	814		..	..	115			
Total illuminating glassware			3,177	..			856			719
Machinery glassware										
Gauge glasses	8.8		133	17	14.4		51	13.5		48
Other descriptions	4.0 ..		40 69	14	0.7 ..		6 4	0.9 ..		5 3
Total machinery glassware			241	..			61			56
Glass tubing and rod	122.7 ..		958 114	17	38.1 ..		206 42	34.2 ..		194 42
Scientific glassware (except tubing and rod)										
Laboratory glassware										
Furnace made	44.4 ..		377 190	18						
Lamp blown	8.8 ..		260 501	29						

TABLE 8 (contd.)

	1948 Sales			1937 Production		1935 Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th.cwts.	£'000	No.	Th.cwts.	£'000	Th.cwts.	£'000
Scientific glassware (except tubing and rod) (contd.)							
Medical and surgical glassware				22.1	183(h)	23.2	161(h)
				..	121	..	76
Furnace made	31.9	174	14				
	..	58					
Lamp blown	5.8	78	18				
	..	180					
Other descriptions	..	145	14	..	35	..	31
	Thous.						
Lenses or prisms, pressed or moulded, unworked (including pressed or moulded blanks of unworked or worked lenses and prisms), other than spectacle or optical glass	5,473	145	8	28.3	120	20.8	97
	Th.cwts.						
	21.7						
	Thous.						
	446	23					
	Th.cwts.						
	..						
Tiles, paving blocks and squares, of cast or pressed glass	10.0	37	7	26.6	48(1)	..	(j)
	..	9					
Leaded lights	77.2	190	91	..	473	..	496
	..	212					
	Th.sq.ft.						
Stained glass and memorial tablets (other than leaded lights)	119	139	26	..	45	..	24(k)
	..	12					
	Th.sq.ft.						
	10,113	1,773	38	9,916	1,533	6,748	1,120
	Th.cwts.						
	238.8						
	Th.sq.ft.						
	1,423	268					
	Th.cwts.						
	..						
Rough glass in the mass, waste and broken glass, and crushed glass (in powder, including chips)	99.6	51	86	30.7	3	..	155
	..	6					
Glass buttons	..	103	10				
Glass beads and glass parts for jewellery	0.2	21	..	..	143		
	..	3					
Other glass and glassware	..	3,874	..				

TABLE 8 (contd.)

	1948 Sales			1937 Production		1935 Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th.cwts.	£'000	No.	Th.cwts.	£'000	Th.cwts.	£'000
Work done for the trade or on commission (l)							
Silvering, engraving, bevelling, staining, etc.		109	44		81		72
Other work done		105	17		32		34
Glazing work on buildings (l) (m)							
Residential		593	69		768		656
Other		1,075	81				
Repair work (l)		299	46		67		53
Total		38,156	..		12,823		10,996
Less sales (or production) in other trades (see Table 9)		2,456	..		724		659
Total principal products of this trade sold or made by establishments in the trade		33,700	246		12,099		10,337

- (a) Owing to the risk of disclosure of information relating to individual firms, separate particulars of the different kinds of glass included in this heading cannot be given.
- (b) Including plate or sheet glass silvered or metallised.
- (c) Excluding plate or sheet glass silvered or metallised.
- (d) Recorded as "Glass letters, shelves, table tops, tiles, finger plates and advertisement tablets".
- (e) Including toilet glassware valued at £7,000 in 1937 and £10,000 in 1935.
- (f) The figures for 1937 and 1935 include heat-resisting glassware.
- (g) The figures for 1937 and 1935 relate to bulbs for electric lamps only.
- (h) Described as "Chemical, medical, surgical, bacteriological (including glass syringes)".
- (i) Including glass letters.
- (j) Not recorded separately.
- (k) So far as recorded separately.
- (l) Amount charged in 1948 and amount received in 1937 and 1935.
- (m) Work done by glass manufacturers. For particulars of glazing work carried out by firms that were not manufacturers of glass, see the Building and Contracting Trade (Volume 12, Trade A).

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

Larger establishments

TABLE 9

	1948 Sales				1937 Production		1935 Production	
	Quantity		Value	Entries	Quantity	Value	Quantity	Value
	Th. sq. ft.	Th. cwts.	£'000	No.	Th. sq. ft.	£'000	Th. cwts.	£'000
Plate and sheet glass and rolled or figured glass (including bevelled, decorated or otherwise finished glass (except silvered or metallised glass), but excluding spectacle glass and safety glass for motor cars, etc.)	15 ..	.. ..	8 29	..	..	1	..	6
Plate or sheet glass silvered or metallised, and glass mirrors unframed, framed or backed, but not further assembled	59 6 ..	0.9	27 7 154	26	30 ..	4 162	..	213
Shelves, finger plates, table tops and advertisement tablets	-	-	-	-	2.1	11	..	6
Domestic and fancy glassware	Th. gross						Th. cwts.	
Tumblers (other than crystal and semi-crystal)								
Beer mugs								
Carafes and jugs, other than mouth blown	468.4 >455.7	38.9 ..	312 719					
Other table glassware and toilet, ornamental and stationery glassware	.. ..	3.7 ..	16 5	..	214.9	335(a)	191.9 ..	275(a) 2
Kitchen-ware, cooking-ware, refrigerator jars and trays, etc., other than heat-resisting glassware								
Machinery glassware	Th. cwts.		1	..	-	-	-	-
Glass tubing and rod	..		18	..	-	-	-	-
Scientific glassware (except tubing and rod)								
Laboratory glassware	0.4 ..		9 7	..	5.8	21(b)	4.8	20(b)
Medical and surgical glassware	0.6 ..		15 5	..	..	8	..	8
Other descriptions	..		74	5	..	9	..	6
Leaded lights	.. Th. sq. ft. 141		48	13	.. Th. sq. ft.	22	.. Th. sq. ft.	31
Safety glass for motor cars, etc.	3.6 11 Th. sq. ft. Th. cwts. ..		39	5	5 Th. cwts. 0.3	2	3 Th. cwts. 0.1	1

TABLE 9 (contd.)

	1948 Sales			1937 Production		1935 Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th. cwts.	£'000	No.		£'000		£'000
Rough glass in the mass, waste and broken glass, and crushed glass (in powder, including chips)	34.5 ..	8 5	59	-	-		
Glass buttons	..	26	..			..	81
Illuminating glassware				..	145		
Lenses or prisms, pressed or moulded, unworked (including pressed or moulded blanks of unworked or worked lenses and prisms), other than spectacle or optical glass	..	922	..				
Tiles, paving blocks and squares, of cast or pressed glass							
Other manufactures of glass, not elsewhere specified							
Work done for the trade or on commission (c)		3	..		4		10
Total		2,456	..		724		659

- (a) Including heat-resisting glassware.
- (b) Described as "Chemical, medical, surgical, bacteriological (including glass syringes)".
- (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 Sales	1937 Production	1935 Production
	Value	Value	Value
	£'000	£'000	£'000
Glass containers (other than scientific and domestic glassware, and cases for cells, accumulators, etc.) and glass stoppers and covers therefor	238	74	75
Metal goods (including engineering products)	89	113	164
Manufactures of timber	42	1	8
Other goods	471	43	41
Work done	76	-	-
Total	916	231	288

Analysis of sales, 1948

Larger establishments in Great Britain

TABLE 11

	Sales £'000	Percentage of total sales
Sales (or transfers) to other organisations under the same control		
Productive works	1,322	4.1
Export sales organisations (including branches abroad)	1,204	3.7
Other wholesale or selling organisations	324	1.0
Retail shops, etc.	4	-
Total sales (or transfers) to other organisations under the same control	2,854	8.8
Sales to independent buyers		
Exports invoiced directly overseas	3,511	10.8
Exports invoiced to Crown Agents and purchasing houses in this country of individual firms and governments abroad	1,226	3.8
His Majesty's Government and Local Authorities (other than productive establishments)	831	2.6
Manufacturers, repairers, builders, mines, public utilities, and transport and other productive undertakings	10,518	32.5
Wholesalers, merchants and other agents for resale	9,520 (a)	29.4
Retailers, including multiple shops, caterers and N.A.A.F.I., for resale	2,634	8.1
Other businesses (including farmers) and institutions of all kinds	1,048	3.2
Members of the public, including employees	222	0.7
Total sales to independent buyers	29,509	91.2
Total	32,363	100.0

(a) Of this total £7,636,000 was recorded as divided between £4,192,000 for export and £3,444,000 for other sales.

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

TABLE 12

	Production(b) (c)	Exports(d)	Retained imports (e)
	Th. sq. ft.	Th. sq. ft.	Th. sq. ft.
Plate and sheet glass and rolled or figured glass, other than spectacle glass, (including safety glass for motor cars, etc., and bevelled, decorated or otherwise finished glass (except silvered or metallised glass))	{ 1948 429,000	116,324	33,450
	{ 1937 ..	39,128(f)	116,450(f)
	{ 1948 Th. cwts. 7650.0	Th. cwts. 1,841.5	Th. cwts. 509.7
	{ 1937 ..	679.4(f)	1,801.2(f)
Plate or sheet glass silvered or metallised, and glass mirrors unframed, framed or backed, but not further assembled	1948 290.0	16.2	0.5
Shelves, finger plates, table tops and advertisement tablets	1948 75.0	1.0	-
Total plate or sheet glass silvered or metallised, mirrors, shelves, finger plates, etc.	{ 1948 385.0	17.1	0.5
	{ 1937 ..	6.1(g)	54.0(g)
Domestic and fancy glassware	{ 1948 5.0	1.2	27.0
	{ 1937 8.9	0.3	37.3
Stemmed glass drinking vessels	1948 Th. gross 471.0	Th. gross 136.7	Th. gross 79.0
Tumblers	Th. cwts. 420.0	Th. cwts. 55.7	Th. cwts. 7.2
Other table glassware and toilet, ornamental and stationery glassware	1948 ..	132.8	28.5
Total tumblers and other table, toilet, etc. glassware	{ 1937 390.6	22.0	376.4
Kitchen-ware, cooking-ware, refrigerator jars and trays, etc.	{ 1948 ..	38.1	15.2
	{ 1937 60.6	19.4	4.0
Illuminating glassware	Thous. 4,190	Thous. 1,014	Thous. 3,051
	{ 1937 ..	202	5,734
Oil lamp chimneys, miners' lamp glasses and hurricane lamp glasses	{ 1948 Th. cwts. 12.5	Th. cwts. 2.7	Th. cwts. 5.8
	{ 1937 5.3	0.7	13.7
Globes, bowls and shades, not elsewhere specified	{ 1948 Thous. 5,300	Thous. 537	Thous. 677
	{ 1937 3,526	247	9,282
Machinery glassware	{ 1948 Th. cwts. 57.0	Th. cwts. 4.8	Th. cwts. 8.2
	{ 1937 56.3	3.3	58.7
Glass tubing and rod	{ 1948 20.0	4.0	0.2
	{ 1937 15.5	2.3	0.6
Glass tubing and rod	{ 1948 137.0	10.3	16.3
	{ 1937 46.0	5.6	8.9

TABLE 12 (contd.)

		Production(b)(c)	Exports(d)	Retained imports(e)
		£'000	£'000	£'000
Scientific glassware (except tubing and rod)	1948	1,943	748	49
	1937	339	94	80
		Th. cwts.	Th. cwts.	Th. cwts.
Lenses or prisms, pressed or moulded, unworked (including pressed or moulded blanks of unworked or worked lenses and prisms), other than spectacle or optical glass	1948	25.0	0.8	0.8
	1937	28.3	0.3	2.6
Tiles, paving blocks or squares, of cast or pressed glass	1948	12.5	25.1	0.9
	1937	..	2.3	4.8
Rough glass in the mass, waste and broken glass, and crushed glass (in powder, including chips)	1948	110.0	8.0	0.1
	1937	46.0	15.8	17.8

(a) Figures of sales (or production) refer only to larger establishments in the relevant years. 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 1948 and production for sale in 1937, including, where necessary, estimates for output recorded by value only.

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

(d) Valued f.o.b.

(e) Valued c.i.f.

(f) Including plate or sheet glass silvered or metallised.

(g) Excluding plate or sheet glass silvered or metallised.

Purchased materials and fuel

Larger establishments

TABLE 13

	1948		1937		1935	
	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						
Sand	365.9	338	267.0	106(a)	224.7	96(a)
Soda ash	83.6	514	42.7	188	34.9	159
Plate and sheet glass	Th. sq. ft. 59,730	2,965	Th. sq. ft. 42,967	1,547	Th. sq. ft. 28,223	1,079
			..	463	..	724
Packing materials						
Wood and timber	Th. cu. ft. 1,778	790	..	193	..	(b)
Other	..	551	..	..	..	..
Felspar and other alumina-bearing materials	Th. cwts. 75.0	86	..	..	..	..
Potash	19.9	52	..	..	..	..
Other potassium compounds	10.2	31	..	..	..	..
Sodium sulphate (including salt cake) and sodium nitrate	422.7	134	..	..	..	..
	..	11	..	..	..	..
Borax and boric acid	100.1	198	..	..	..	..
Lead oxides	46.4	249	..	1,180	..	1,445(c)
Barium carbonate	7.6	8	..	..	..	..
Magnesite and magnesium oxide	7.4	17	..	..	..	..
Manganese	1.6	3	..	..	..	..
Arsenic	4.7	10	..	..	..	..
Cullet	451.4	92	..	..	..	..
Glass tubing and rod	25.4	223	..	..	..	..
All other purchased materials	..	3,513	..	..	..	..
Fuel and electricity	Th. tons		Th. tons		Th. tons	
Coal	622.2	1,731	510.1	529	485.4	449
Coke	22.5	66	..	(b)	32.6	26

TABLE 13 (contd.)

	1948		1937		1935	
	Materials and fuel purchased		Usage of purchased materials and fuel			
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. B.T.U. (kW.hrs.)	£'000	Th. B.T.U. (kW.hrs.)	£'000	Th. B.T.U. (kW.hrs.)	£'000
Fuel and electricity (contd.)						
Electricity purchased						
From public supply	90,164	437	49,525	106	28,784	86
From other sources	5,202	23				
Electricity obtained from other works under the same ownership	40	-				
Motor spirit (petrol) and derv. fuel	Th. galls.		Th. galls.		Th. galls.	
Used for road vehicles	607	58	..	(b)	..	(b)
Used for other power purposes	87	4				
Other oil fuel (including creosote/pitch mixtures)	21,845	780	4,966	82(d)	4,502	69(d)
Gas purchased	Th. therms					
From public supply	12,756	360	..	110	..	(b)
From other sources	..	15				
Gas obtained from other works under the same ownership	13	-				
All other purchased fuel	..	19				
Total		13,276		4,504		4,133

(a) Recorded as:-

	1937	Th. tons	£'000	1935	Th. tons	£'000
White sand	1937	177.0	82	1935	135.6	72
Other sand	1937	90.0	24	1935	89.1	24

(b) Not recorded separately.

(c) Including fuel not specified separately.

(d) 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. sq. ft.	Th. cwts.	£'000	Th. sq. ft.	Th. cwts.	£'000
Finished products						
Domestic and fancy glassware (including heat-resisting glassware)	..	18.6	118	..	23.2	144
Safety glass for motor cars, etc.	261	6.8	41	209	5.4	31
Other finished products	439	..	54	540	..	68
Work in progress	..	..	1,056	..	..	1,409
Total finished products and work in progress			2,011			2,430
Materials and fuel	Th. tons			Th. tons		
Sand	46.4	66		40.7	57	
Soda ash	9.8	62		8.4	52	
Plate and sheet glass	Th. sq. ft.			Th. sq. ft.		
Coal	5,403	299		5,550	279	
Other descriptions	..	85		..	71	
Coal	Th. tons			Th. tons		
Other descriptions	53.3	138		53.2	139	
Other descriptions	..	1,753		..	1,948	
Total materials and fuel			2,402			2,547

Employment and remuneration (a)

Larger establishments

TABLE 15

	Average number of operatives			Administrative, technical and clerical employees (b)			Total		
	1948	1937	1935	1948	1937	1935	1948	1937	1935
Males									
Under 18	1,816	2,733	2,996	178	254	232	1,994	2,987	3,228
All ages	24,689	19,885	19,161	3,695	2,960	2,648	28,384	22,845	21,809
Females									
Under 18	852	2,013	1,847	501	354	248	1,353	2,367	2,095
All ages	7,031	5,525	5,269	2,552	1,562	1,358	9,583	7,087	6,627
Total									
Under 18	2,668	4,746	4,843	679	608	480	3,347	5,354	5,323
All ages	31,720	25,410	24,430	6,247 (c)	4,522	4,006	37,987 (c) (d) (e)	29,932	28,436
Total remuneration	£'000 9,592	..	..	£'000 2,486	..	..	£'000 12,077	..	..

(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	12 males	292 females
Other workers	535 males	128 females

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

(c) There were, in addition, 50 working proprietors (49 males and 1 female) in 1948. Working proprietors are included in the 1937 and 1935 figures.

(d) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to £309,000.

(e) Particulars of the persons (included in this total) who were employed on special work by establishments employing 100 or more persons are given below.

	Operatives	Administrative, technical and clerical employees
Transport of goods outside the premises	257	
Maintenance and repair of firms' buildings, but not plant	171	
Research work not directly connected with current production however charged	5	10

In addition to the employees in the above table the firms in this trade employed 2 male and 41 female outworkers in 1948, the amount paid to them being £5,000. 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	9,592	2,677	24.4	24.7	24.0	26.8	100.0		
Administrative, technical and clerical employees	2,486	564	24.4	24.7	24.7	26.1	100.0		
Total	12,077	3,242	24.4	24.7	24.2	26.7	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 £90,000.

Payments for certain services, 1948

Larger establishments in Great Britain

TABLE 18

	Amount paid
Repair and maintenance	£'000
Of buildings	61
Of plant, machinery and vehicles	123
Unclassified	295
Hire of plant, machinery and vehicles	28
Advertising and market research	
Advertising in newspapers, magazines and periodicals	67
Other advertising services (poster display, despatch of circulars, etc.) and market research	12
Unclassified	83
Payments made for research work	
To research associations	2
To universities, institutions, academic bodies and similar agencies	4
To other commercial concerns	53
Postage, telephone, telegrams and cables	98
Commercial insurance premiums	89
Rates (excluding water rates) payable in the year	54

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	871	14	17
Vehicles	117	23	18
Total	988	37	34

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)		384
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)	115	
(111) Leasehold buildings and land newly occupied in the year	229	
Total of heading 2		382
Total of headings 1 and 2		766
3. Existing buildings and land relinquished (d)		
(1) Selling value of freeholds sold	-	
(11) Estimated value of other properties relinquished	37	
Total of heading 3		37
4. Headings 1 and 2 less heading 3		729

- (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)	32,358	930	975	34,263
Cost of materials and fuel used	12,331	384	416	13,131
Payment for work done on materials given out	88	1	1	90
Net output	19,938	545	558	21,041
Wages and salaries of persons employed	11,348	326	403	12,077
Average number of persons employed (a)	No. 35,352	No. 1,167	No. 1,498	No. 38,017
Net output per person employed (a)	£ 564	£ 467	£ 372	£ 553
Stocks at end of year	£'000	£'000	£'000	£'000
Finished products and work in progress	2,219	88	123	2,430
Materials and fuel	2,396	72	79	2,547
Number of establishments	No. 247	No. 10	No. 15	No. 272

(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)	32,708	928	981	34,616
Adjustment for changes in stocks and work in progress	+ 350	+ 59	+ 10	+ 419
Less payment for transport by other firms	33,058	987	990	35,035
Gross output (production)	701	57	15	773
Gross output (production)	32,358	930	975	34,263
Materials and fuel used by firms in this trade				
Purchases (see Table 24)	12,477	405	394	13,276
Adjustment for changes in stocks	- 145	- 22	+ 22	- 145
Materials and fuel used	12,331	384	416	13,131

Summary
Small firms

TABLE 22

	England	Wales	Scotland	Great Britain
Number of returns	352	8	29	389
Average number of persons employed (a)				
Males	1,722	43	116	1,881
Females	398	20	53	471
Total	2,120	63	169	2,352

(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. sq. ft.	Th. cwts.	£'000	Th. sq. ft.	Th. cwts.	£'000	Th. sq. ft.	Th. cwts.	£'000
Principal products									
Plate and sheet glass and rolled or figured glass (including bevelled, decorated or otherwise finished glass (except silvered or metallised glass), but excluding spectacle glass and safety glass for motor cars, etc.)	403,098	7,066.0	13,011	6,402	157.7	228	409,499	7,223.8	13,239
	5,269	..	601	76	..	7	5,345	..	608
	..	..	354	..	..	9	..	..	362
Plate or sheet glass silvered or metallised, and glass mirrors unframed, framed or backed, but not further assembled	5,955	165.3	1,135	148	4.2	38	6,103	169.4	1,173
	1,814	..	442	77	..	8	1,892	..	450
	..	..	297	..	..	6	..	..	302
Shelves, finger plates, table tops and advertisement tablets	..	41.3	273	..	0.3	3	..	41.6	276
	..	..	230	..	..	4	..	..	234
Domestic and fancy glassware									
Stemmed glass drinking vessels									
Mouth blown	..		(a)	..		(a)	Th. gross 9.5	4.3	180
							24

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TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain		
	Quantity	Value	Quantity	Value	Quantity		Value
		£'000		£'000	Th. gross	Th. cwts.	£'000
Principal products (contd.)							
Domestic and fancy glassware (contd.)							
Stemmed glass drinking vessels (contd.)							
Other than mouth blown	-	-	-	-	-	-	-
Tumblers, crystal and semi-crystal	..	(a)	..	(a)	17.2	9.9	246
Carafes and jugs, mouth blown	..	(a)	..	(a)	2.1	5.6	112
					0.5	..	18
All other descriptions, except heat-resisting glassware	..	(a)	..	(a)	293.0	311.7	1,281
					26.6	..	57
					..	68.2	748
					..	..	89
Illuminating glassware	Thous.	Th. cwts.			Thous.		
Glass bulbs for electric lamps, radio valves, cathode ray tubes, etc.	54,093	40.3	545	-	54,093	40.3	545
	109,184	..	549	-	109,184	..	549
Oil lamp chimneys and miners' lamp glasses	..	..	(a)	..	(a)	2,533	6.7
Machinery glassware					Th. cwts.		
Gauge glasses	..	(a)	..	(a)	8.8		133
Other descriptions	..	(a)	..	(a)	4.0		40
					..		68
Glass tubing and rod	..	(a)	..	(a)	122.7		958
					..		95
Scientific glassware (except tubing and rod)							
Laboratory glassware	..	(a)	..	(a)	52.8		628
					..		685
Medical and surgical glassware	37.1	237	..	-	37.1		237
	..	213	..	-	..		213
Other descriptions	..	72	..	-	..		72
Leaded lights	..	(a)	..	(a)	77.2		190
					..		165
Stained glass and memorial tablets (other than leaded lights)	..	(a)	..	(a)	Th. sq. ft. 119		139
					..		12

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TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
	Th. cwts.	£'000		£'000	Th. sq. ft.	£'000
Principal products (contd.)						
Safety glass for motor cars, etc.	..	(a)	..	(a)	9,972 Th. cwts. 235.1	1,735
Rough glass in the mass, waste and broken glass, and crushed glass (in powder, including chips)	..	(a)	..	(a)	1,412 Th. sq. ft. .. Th. cwts.	266
Glass buttons	..	77	-	-	65.1	43
Glass beads and glass parts for jewellery	0.2 ..	21 3	-	-	..	1
Illuminating glassware (other than bulbs for electric lamps, radio valves, cathode ray tubes, etc., and oil lamp chimneys and miners' lamp glasses)						
Lenses or prisms, pressed or moulded, unworked (including pressed or moulded blanks of unworked or worked lenses and prisms) other than spectacle or optical glass	..	4,836	..	287	..	5,123
Tiles, paving blocks and squares, of cast or pressed glass						
Other manufactures of glass, not elsewhere specified						

TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
		£'000		£'000	Th. cwts.	£'000
Principal products (contd.)						
Work done for the trade or on commission (b)						
Silvering, engraving, bevelling, staining, etc.		192		18		106
Other work done						105
Glazing work on buildings (b)						
Residential		1,573		95		593
Other						1,075
Repair work (b)		283		16		299
Total principal products		32,719		981		33,700
Other output						
Glass containers (other than scientific and domestic glassware, and cases for cells, accumulators, etc.) and glass stoppers and covers therefor	..	238	-	-	..	238
Metal goods (including engineering products)	..	89	-	-	..	89
Manufactures of timber	..	42	-	-	..	42
Other goods	..	471	-	-	..	471
Work done (b)		76		-		76
Total		33,636		981		34,616

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

Purchased materials and fuel
Larger establishments

TABLE 24

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
Materials		£'000		£'000	Th. tons	£'000
Sand	..	(a)	..	(a)	365.9	338
Soda ash	..	(a)	..	(a)	83.6	514
	Th. sq. ft.		Th. sq. ft.		Th. sq. ft.	
Plate and sheet glass	58,259	2,858	1,471	107	59,730	2,965
Packing materials	Th. cu. ft.		Th. cu. ft.		Th. cu. ft.	
Wood and timber	1,751	778	27	13	1,778	790
Other	..	542	..	9	..	551
	Th. cwts.				Th. cwts.	
Felspar and other alumina-bearing materials					75.0	86
Potash					19.9	52
Other potassium compounds					10.2	31
Sodium sulphate (including salt cake) and sodium nitrate	..	(a)	..	(a)	422.7	134
					..	11
Borax and boric acid					100.1	198
Lead oxides					46.4	249
Barium carbonate	7.6	8	-	-	7.6	8
Magnesite and magnesium oxide	7.4	17	-	-	7.4	17
Manganese	1.6	3	-	-	1.6	3
Arsenic					4.7	10
Cullet	..	(a)	..	(a)	451.4	92
Glass tubing and rod					25.4	223
All other purchased materials	..	3,373	..	140	..	3,513
	Th. tons		Th. tons		Th. tons	
Fuel and electricity						
Coal	606.9	1,689	15.3	42	622.2	1,731
Coke	20.9	60	1.6	5	22.5	66

TABLE 24 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
Fuel and electricity (contd.)	Th. B. T. U. (kW. hrs.)	£'000	Th. P. T. U. (kW. hrs.)	£'000	Th. B. T. U. (kW. hrs.)	£'000
Electricity purchased						
From public supply	88,843	428	1,321	11	90,164	437
From other sources	..	(a)	..	(a)	5,202	23
Electricity obtained from other works under the same ownership	40	-	-	-	40	-
Motor spirit (petrol) and deriv. fuel	Th. galls.		Th. galls.		Th. galls.	
Used for road vehicles	593	57	14	1	607	58
Used for other power purposes	87	4	-	-	87	4
Other oil fuel (including creosote/pitch mixtures)	..	(a)	..	(a)	21,845	780
Gas purchased	Th. therms		Th. therms		Th. therms	
From public supply	12,562	354	194	6	12,756	360
From other sources	..	(a)	..	(a)	..	15
Gas obtained from other works under the same ownership	13	-	-	-	13	-
All other purchased fuel	..	18	-	-	..	18
Total		12,882		394		13,276

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

Employment and remuneration

Larger establishments

TABLE 25

	England and Wales			Scotland			Great Britain		
	Average number of operatives	Administrative, technical and clerical employees (a)	Total	Average number of operatives	Administrative, technical and clerical employees (a)	Total	Average number of operatives	Administrative, technical and clerical employees (a)	Total
Males									
Under 18	1,740	175	1,915	76	3	79	1,816	178	1,994
All ages	23,781	3,559	27,340	908	136	1,044	24,689	3,695	28,384
Females									
Under 18	824	487	1,311	28	14	42	852	501	1,353
All ages	6,697	2,437	9,134	334	115	449	7,031	2,552	9,583
Total									
Under 18	2,564	662	3,226	104	17	121	2,668	679	3,347
All ages	30,478	5,996(b)	36,474 (b) (c)	1,242	251(b)	1,493 (b) (c)	31,720	6,247(b)	37,967 (b) (c)
Total remuneration	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000
	9,265	2,409	11,674	327	76	403	9,592	2,486	12,077

(a) Number at September 25, 1948.

(b) There were, in addition, 50 working proprietors (49 males and 1 female) in Great Britain; 44 males and 1 female in England and Wales, and 5 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 £309,000; £297,000 for England and Wales, and £12,000 for Scotland.

In addition to the employees in the above table the firms in England and Wales in this trade employed 2 male and 41 female outworkers, the amount paid to them being £5,000.

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	99.0	101.1	99.1	August	99.7	99.8	99.7
February	99.2	100.2	99.3	September	100.1	99.5	100.1
March	99.5	100.8	99.6	October	101.3	98.3	101.1
April	99.8	100.5	99.8	November	102.3	100.7	102.2
May	99.7	99.3	99.7	December	102.3	100.4	102.2
June	98.9	99.5	98.9	Percentage employment in this trade covered by the index	28.7	53.2	29.6
July	98.2	99.8	98.3				

(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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