

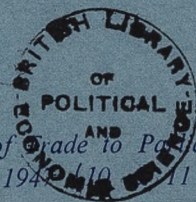
BOARD OF TRADE

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*The Report on the
Census of Production
for 1954*

Volume 1: Industry I

GLASS (OTHER THAN CONTAINERS)



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

LONDON: HER MAJESTY'S STATIONERY OFFICE

1958

PRICE 1s 9d NET

The Report on the Census of Production for 1954

VOLUME 1 INDUSTRY I

GLASS (OTHER THAN CONTAINERS)

THIS REPORT on the Glass (other than Containers) Industry 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 industry corresponds to minimum list heading 22 in the Standard Industrial Classification.

LIST OF TABLES

Table No.	Title	Page	Table No.	Title	Page
1	Industry summary: estimates for the industry as a whole	1/I/3	6	Sales of principal products of the industry by establishments classified to other industries	1/I/7
2	Summary of returns received	1/I/3	7	Sales in the industry of other than principal products	1/I/7
3	Analysis by size, 1954	1/I/4	8	Total make of intermediate products	Does not apply
4	Analysis according to specialisation within the industry, 1954	1/I/4	9	Purchases of materials and fuel, 1954	1/I/8
5	Sales of principal products of the industry, including sales of these products by establishments classified to other industries	1/I/5	10	Average number of employees and wages, salaries and superannuation payments	1/I/9
			11	Employment in a specified week	1/I/9

IMPORTANT NOTES and definitions appear on the next page. In interpreting the data in the tables, it is essential to bear these in mind.

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The following notes describe terms in general use in the tables of the report. More detailed explanations of the terms used and a description of the scope and method of taking the census are given in the separate booklet entitled 'The Report on the Census of Production for 1954 - Introductory Notes' (price 1s. 6d. net).

Industrial Classification: Establishments are classified to industries according to the nature of their output and, as far as possible, in conformity with the Standard Industrial Classification. Certain products are identified as the principal products of individual industries, the principal products for a given industry being of a similar nature or commonly associated in production. The principle of classification normally followed is that an establishment is classified to an industry if its output of the principal products of that industry accounted for a greater proportion of the value of its output than did its output of the principal products of any other industry.

Specialist producers normally comprise those establishments 50 per cent. or more of whose total output by value is accounted for by the characteristic products of the specialist group.

Intermediate products: For some industries figures are given showing the total quantities made during the year of intermediate products, i.e., products which may be further processed in the establishments in which they are produced.

Larger establishments: The information given in the report relates mainly to 'larger establishments', i.e., establishments of firms employing on the average more than 10 persons. In most cases an establishment comprises the whole of the premises under the same ownership or management at a particular address (e.g., a mine or factory). Offices, warehouses, laboratories and other ancillary places of business situated apart from the producing works are not regarded as separate establishments and are included in the return for the works.

Small firms are those employing on the average 10 or fewer persons.

The estimates for the industry as a whole given in Table 1 are normally obtained by increasing the other items shown in the same proportion as total employment.

Gross output (production) is the total value of goods made and other work done during the year: it is obtained by adjusting the value of sales and work done during the year for changes in the value of stocks of products on hand for sale and work in progress.

Net output is the amount left after deducting from the value of gross output the aggregate of the cost of materials and fuel used, the amount paid for work given out, and, for 1951 and 1954, any transport payments made. This represents the value added to materials by the process of production, and constitutes the fund from which wages, salaries, rents, rates and taxes, advertising and other selling expenses and all other similar charges have to be met, as well as depreciation and profits.

Sales means sales during the year of goods made in the establishment covered by the return or made on commission for it, whether produced in the year or not. The value of sales is the net selling value, i.e., the amount charged to customers, whether on an ex-works or delivered basis, and net of any trade discounts, agents' commissions, allowances for returnable cases, purchase tax, etc. For goods charged on a delivered basis to customers overseas, firms were required to give the f.o.b. value.

Materials and fuel: The total cost of materials and fuel purchased includes all purchases during the year of materials for use in production, and of fuel (includ-

ing oil, gas and electricity) for all purposes: packing materials, including the full cost of returnable cases when first purchased; workshop and office materials; water charges; materials for repairs to buildings, plant and vehicles when carried out by firms' own work-people included in their returns; consumable tools; and parts for machinery purchased as replacements. Purchases of goods for merchanting are excluded. The cost of materials and fuel used, given in Table 2, is obtained by adjusting purchases for changes during the year in the value of stocks.

Stocks: Firms were required to give stocks of materials and fuel, products on hand for sale, and work in progress, at income tax values.

Customs and Excise Duty paid on materials purchased is normally included in the cost of materials. Finished goods are similarly valued as they were sold, duty-paid or duty-free. The net amount of any duty paid is deducted in arriving at net output.

Employment: Total employment includes working proprietors, administrative, technical and clerical employees, and operatives, but excludes outworkers, canteen employees and persons engaged in merchanting or any other activity not covered by a firm's return, who are shown separately as excluded employees. Employees are persons on the pay-roll (i.e., persons whose National Insurance cards were held by employers), whether employed full-time or part-time.

Working proprietors are proprietors of businesses other than limited companies, together with members of their families who worked in the business without receiving fixed wages or salaries. Any persons working less than half the normal hours are excluded. For Northern Ireland directors of limited companies (other than those paid by fee only) are also included.

Administrative, technical and clerical employees include directors, other than those paid by fee only (except in Northern Ireland); managers, superintendents and works foremen; research, experimental, development, technical and design employees (other than operatives); draughtsmen and tracers; travellers; and office (including works office) employees.

Operatives include all other classes of employees, i.e., broadly speaking, all manual workers.

Outworkers are persons employed by the firm who work on materials supplied by the firm in their own homes.

Wages and salaries include all overtime payments, bonuses and commissions without any deductions for income tax, insurances, contributory pensions etc. They exclude payments to working proprietors.

Capital expenditure includes expenditure on new building work, and on plant, machinery and vehicles, charged to capital account during the year, including any transport and installation costs involved. It includes expenditure in respect of establishments in Great Britain which had not begun production before the end of the year (which has not previously been included in the Census of Production reports for individual industries).

Symbols used:

.. for not available

- for nil or negligible (less than half the final digit shown).

Where figures are rounded, e.g., given to the nearest £ thousand, there may be apparent slight discrepancies between the sums of constituent items and the totals shown. In some cases, figures have been combined with others of a similar nature where publication of separate details might disclose information relating to an individual undertaking.

Industry summary

Estimates for the industry as a whole

TABLE 1

	United Kingdom			Scotland	Wales
	1948	1951	1954	1954	1954
Gross output (production)	£ million	£ million	£ million	£ million	£ million
	36.7	52.2	59.6	1.97	1.65
Net output	22.5	28.8	34.7	1.19	0.74
Total stocks and work in progress					
At beginning of year	4.7	6.7	8.7	0.33	0.20
Change during year	+ 0.6	+ 2.6	- 0.2	+ 0.02	- 0.03
Capital expenditure less disposals (a)	1.8	2.7	2.6	0.20	0.01
Wages and salaries	12.9	17.0	19.3	0.68	0.52
Total employment (including working proprietors)	Thousands	Thousands	Thousands	Thousands	Thousands
	40.7	44.5	41.1	1.60	1.10

(a) Capital expenditure on new building work, plant, machinery and vehicles (including (except in 1948) that incurred in Great Britain for establishments not yet in production), less amounts received for plant, machinery and vehicles disposed of.

Summary of returns received

TABLE 2

	Unit	Great Britain	United Kingdom	
		1948	1951	1954
FIRMS EMPLOYING ON AVERAGE MORE THAN 10 PERSONS				
Number of establishments	No.	272	303	274
Total value of sales and work done	£'000	34,616	48,247	56,205
Products on hand for sale	"	2,011	3,046	4,049
and work in progress	"	+ 419	+ 1,180	- 235
Gross output (production) (a)	"	34,263	49,427	55,970
Purchases of materials and fuel	"	13,276	21,644	21,269
Stocks of materials and fuel	"	2,402	3,336	4,080
Cost of materials and fuel used	"	+ 145	+ 1,317	+ 74
Payment for work done on materials given out	"	13,131	20,327	21,196
Payment for transport (b)	"	90	159	160
Net output	"	773	1,678	2,010
Average number of employees	No.	21,041	27,263	32,604
Total employment (d)	"	31,720	34,683	31,127
Net output per person employed (d)	£	6,247 (c)	7,421	7,463
Wages and salaries	£'000	38,017	42,163	38,632
Capital expenditure	"	553	647	844
New building work (e)	"	9,592	12,508	13,901
Plant and machinery	"	2,486	3,538	4,209
Vehicles	"	384	807	577
	"	885	1,591	1,646
	"	17	19	29
	"	140	213	258
	"	18	40	40
FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS				
Number of returns	No.	389	399 (f)	396
Total employment, including working proprietors	"	2,352	2,102 (f)	2,077

(a) For the year 1948 gross output excludes payments for transport services outwards on finished goods sold. For subsequent years gross output includes payments to other firms and undertakings and to firms' own separate transport organisations for transport services.

(b) Payments to other firms and undertakings and to firms' own separate transport organisations. For the year 1948 payments cover only transport outwards of finished goods sold. For subsequent years they cover payments for transport of both finished goods sold and materials and fuel purchased.

(c) Number in week ended September 25, 1948.

(d) Excluding outworkers and including working proprietors.

(e) Excluding expenditure for establishments not yet in production.

(f) Excluding Northern Ireland. No information about small firms was collected in Northern Ireland for 1951.

GLASS (OTHER THAN CONTAINERS)

Analysis by size, 1954

Larger establishments in the United Kingdom

TABLE 3

Average number employed (a)	Establishments	Gross output	Net output	Employees		Wages and salaries		Capital expenditure (b)	Net output per person employed (a)
				Operatives	Others	Operatives	Others		
	Number	£'000	£'000	Number	Number	£'000	£'000	£'000	£
11 - 24 (c)	94	1,912	1,100	1,177	272	494	140	49	752
25 - 49	81	3,529	2,006	2,348	494	947	256	71	701
50 - 99	39	3,223	1,671	2,071	383	805	211	70	679
100 - 199	27	4,477	2,344	3,167	661	1,310	355	110	612
200 - 299	10	2,621	1,500	2,077	301	861	165	82	631
300 - 399	6	2,797	1,442	1,646	346	674	192	128	724
400 - 999	11	11,657	6,034	5,991	1,319	2,635	708	730	825
1,500 and over	6	25,755	16,508	12,650	3,687	6,175	2,184	1,240	1,010
Total	274	55,970	32,604	31,127	7,463	13,901	4,209	2,482	844

(a) Excluding outworkers and including working proprietors.

(b) Capital expenditure on new building work and on acquisition of plant, machinery and vehicles. Excluding expenditure for establishments not yet in production.

(c) Including a small number of establishments with fewer than 11 persons employed, particulars of which were included with those for larger establishments on a single return.

Analysis according to specialisation within the industry, 1954

Larger establishments in the United Kingdom

TABLE 4

	Unit	Specialist producers of			Remainder of the industry	Total
		Plate or sheet glass silvered or metalised (a)	Domestic and fancy glassware	Safety glass		
Number of establishments	No.	48	27	9	190	274
Total value of sales and work done	£'000	3,088	5,768	4,513	42,836	56,205
Sales of characteristic products	"	2,206	4,210	4,469		
Products on hand for sale	"	51	544	258	3,196	4,049
and work in progress	"	3	26	21	285	235
Gross output (production)	"	3,092	5,794	4,533	42,550	55,970
Purchases of materials and fuel	"	1,353	1,882	2,726	15,308	21,269
Stocks of materials and fuel	"	248	295	225	3,311	4,080
Cost of materials and fuel used	"	4	34	24	67	74
Payment for work done on materials given out	"	1,357	1,848	2,750	15,241	21,196
Payment for transport	"	23	6	4	128	160
Net output	"	30	126	34	1,820	2,010
Average number of employees	No.	1,682	3,814	1,746	25,363	32,604
Total employment (b)	"	2,013	5,034	1,548	22,532	31,127
Net output per person employed (b)	£	369	888	443	5,763	7,463
Wages and salaries	£'000	2,390	5,922	1,991	28,329	38,632
Capital expenditure	"	704	644	877	895	844
New building work (c)	"	855	1,836	712	10,498	13,901
Plant and machinery	"	230	424	244	3,311	4,209
Vehicles	"	2	40	22	513	577
acquisitions (c)	"	30	64	119	1,433	1,646
disposals (d)	"					29
acquisitions (c)	"	28	33	16	182	258
disposals	"	5	9	3	24	40

(a) Including glass mirrors unframed, framed or backed, but not further assembled, shelves, finger plates, table tops and advertisement tablets.

(b) Excluding outworkers and including working proprietors.

(c) Excluding expenditure for establishments not yet in production.

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

(92224)

GLASS (OTHER THAN CONTAINERS)

Sales of the principal products of the industry, including sales of these products by establishments classified to other industries

Larger establishments in the United Kingdom

TABLE 5

	1951		1954		Entries	
	Quantity	Value	Quantity	Value		
Plate or sheet glass silvered or metalised, and glass mirrors unframed, framed or backed, but not further assembled	Th.sq.ft.	£'000	Th.sq.ft.	£'000	117	
	5,501	1,150	3,416	672		
	Th.cwt.		76.7			
	137.4		2,946			
Th.sq.ft.	655		879		1,380	
2,368	666	..				
Shelves, finger plates, table tops and advertisement tablets	Th.cwt.	292	803	131	87	
	1,506		18.9			
	Th.cwt.		35.5			18.9
	Th.sq.ft.		546			944
Plate and sheet glass and rolled or figured glass including bevelled, decorated or otherwise finished glass (except silvered or metalised glass) other than spectacle glass (a)	Th.sq.ft.	16,664	433,933	17,905	92	
	416,763		7,521.6			
	Th.cwt.		7,018.9			6,610
	Th.sq.ft.		1,852			542
Other plate and sheet glass excluding safety glass for motor cars, etc.	Th.cwt.	569	4,924	686	46	
	6,120		73.6			
	Th.cwt.		94.1			73.6
	Th.sq.ft.		544			7,208
Total plate, sheet, rolled and figured glass	596	1,079	21,602	25,541	..	
Cases for cells, accumulators, etc., and glass bulbs for making vacuum flask inners	..	416	..	351	7	
Domestic and fancy glassware						
Mouth blown	Th.gross		Th.gross			
Stemmed glass drinking vessels	13.6	344	13.9	453	14	
Tumblers	..	..	..	57	..
Lead crystal and semi-crystal	12.4	272	13.2	339	12	
Other descriptions	..	48	..	85	9	
Other mouth blown table glassware and toilet, ornamental and stationery glassware	..	198	9.2	59	..	
Other than mouth blown	..	58	..	..	..
Stemmed glass drinking vessels	608.7	1,390	448.8	1,253	16	
Tumblers and beer mugs	..	172	..	303	..	
Other table glassware and toilet, ornamental and stationery glassware and heat-resisting glassware other than tumblers	681.2	3,614	363.6	2,533	27	
Other kitchen-ware, cooking-ware, refrigerator jars and trays, etc.	1.1	13	21.9	682	6	
Total domestic and fancy glassware	..	10	..	27	..	
Illuminating glassware						
Glass bulbs for electric lamps, radio valves, cathode ray tubes, etc.	Th.		Th.			
Oil lamp chimneys, miners' lamp glasses and hurricane lamp glasses	314,399	2,555	349,194	4,350	14	
Globes, bowls and shades, not elsewhere specified	5,898	254	7,256	211	11	
Other illuminating glassware	4,644	1,025	3,379	667	18	
Total illuminating glassware	..	741	..	141	15	
				739	..	
				6,108	..	

(92224)

TABLE 5 (contd.)

	1951		1954		
	Quantity	Value	Quantity	Value	Entries
	Th.cwt.	£'000	Th.cwt.	£'000	Number
Machinery glassware (e.g. gauge glasses)	12.3	235	4.9	116	17
	..	30	..	201	
Glass tubing and rod	176.1	1,559	190.4	1,488	8
	..	276	..	226	
Scientific glassware (except tubing and rod)					
Chemical, medical, surgical and bacteriological (including glass syringes)	31.3	683	20.7	607	43
	..	995	..	1,471	
Other descriptions, including blanks	2.4	162	2.6	44	13
	..	362	..	199	
Total scientific glassware (except tubing and rod)		2,203		2,321	..
Lenses or prisms, pressed or moulded, unworked (including pressed or moulded blanks of unworked or worked lenses or prisms) other than spectacle or optical glass	Th. 4,318 Th.cwt. 32.4	186	Th. 4,391 Th.cwt. 15.0	160	12
	..	50	..	42	
Leaded lights	Th.sq.ft. 858.4	316	..	407	72
	..	145	..	..
Stained glass and memorial tablets (other than leaded lights)	46.0	149	..	219	31
	..	23	..	..
Safety glass for motor cars, etc.	7,417 Th.cwt. 188.5 Th.sq.ft. 10,237	1,265	Th.sq.ft. 8,794 Th.cwt. 207.0 Th.sq.ft. 12,315	1,648	52
	Th.cwt. 22.6	1(b)	Th.cwt. 24.1	16(b)	
Rough glass in the mass, waste and broken glass, and crushed glass (in powder, including chips)	..	1	..	33	5
Other manufactures of glass not elsewhere specified	..	5,187	..	7,197	
Glazing work on buildings (including repairs and replacements) (c) (d)					
Residential		594		654	58
Other		887		1,152	63
Work done for the trade or on commission, e.g. silvering, engraving, bevelling, staining, etc. (d)		389		181	40
Other work done (including repair work) (d)		276		555	54
Total		49,446		58,052	..
Sales in other industries (see Table 6)		2,417		3,272	..
Principal products of this industry sold by establishments in the industry		47,030		54,780	224

(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) So far as recorded separately.

(c) 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 Industry (Volume 12, Industry A).

(d) Amount charged.

Sales of principal products of the industry by establishments classified to other industries

Larger establishments in the United Kingdom

TABLE 6

	1954			Principal industries in which produced (a)
	Quantity	Value	Entries	
	Th.sq.ft.	£'000	Number	
Plate or sheet glass silvered or metallised, and glass mirrors unframed, framed or backed, but not further assembled	146.5	39	18	(b)
	..	139		
Plain sheet window glass, including thick drawn sheet glass; plate or sheet glass (clear, opal or coloured) bevelled, sand blasted, backed with other materials, drilled, painted or otherwise finished, but excluding plate or sheet glass silvered or metallised; shelves, finger plates, table tops and advertisement tablets	..	79	6	10B, 10D, 12A
Total plate and sheet glass		257	..	
	Th.gross 586.5	1,646	22	1H, 4K, 12A
	..	346		
Domestic and fancy glassware		1,992	22	
Total domestic and fancy glassware				
Illuminating glassware				
Glass bulbs for radio valves, cathode ray tubes, etc.; oil lamp chimneys, miners' lamp glasses, and other illuminating glassware	..	158	..	1H, 4O
Total illuminating glassware	..	158	..	
Scientific glassware (except tubing and rod)				
Chemical, medical, surgical and bacteriological (including glass syringes)	..	94	..	1H, 5H
Leaded lights	..	74	10	5E, 12A
Stained glass and memorial tablets (other than leaded lights)	..	27	..	5E, 10B
Glass fibre and manufactures thereof	..	148	7	1L, 4M, 10A, 11I
Other manufactures of glass not elsewhere specified, including cases for cells, accumulators, etc.	..	192	29	(b)
Work done (c)	..	329	13	1H, 12A
Total		3,272	..	

(a) The volume number and industry references given are to the industries shown in the list at the back of this report.

(b) Production is widely distributed among other industries.

(c) Amount charged.

Sales in the industry of other than principal products: Larger establishments in the United Kingdom

TABLE 7

	1954	
	Quantity	Value
		£'000
Glass containers (other than scientific glassware and containers made from tubing), glass stoppers and covers therefor, fitted vacuum flasks and jars and similar vessels, and glass inners and refills for vacuum flasks, whether silvered, exhausted and sealed or not	..	207
Metal goods (including engineering products)	..	259
Manufactures of timber	..	36
Other goods	..	686
Work done (a)	..	237
Total		1,425

(a) Amount charged.

TABLE 8 - Total make of intermediate products: Larger establishments in the United Kingdom
Owing to the risk of disclosure of information relating to individual firms details cannot be given.

Purchases of materials and fuel, 1954: Larger establishments in the United Kingdom
TABLE 9

	Quantity	Cost
	Th. tons	£'000
Materials		
Sand and limestone	268.7	509
	Th.cwt.	
Alumina whether in calcined, hydrated or other form and all felspar and other alumina bearing materials	87.6	87
Potassium compounds	42.7	133
Sodium nitrate	31.1	44
Soda ash		
Sodium sulphate (including salt cake)	2,093.6	1,342
Borax and boric acid		
Lead oxides	34.8	211
Manganese		
Arsenic	10.4	17
Selenium and selenium salts	0.1	23
Glass tubing and rod	17.9	161
	..	100
Plate and sheet glass purchased for further processing (e.g. for bevelling, silvering or for glazing of buildings)	Th.sq.ft. 69,129.6	4,339
	..	964
Other glassware purchased for decorating	..	336
	Th. tons	
Refractory materials	6.1	178
	..	150
Packing materials		
	Th.cu.ft. of timber	
Packing cases (wood or mainly of wood)	1,328	681
	..	117
	Hundreds	
Wooden barrels, hogsheads, casks and kegs	120	9
	..	13
	Th.cwt.	
Cardboard boxes, cartons and fibreboard packing cases	26.7	136
	..	196
All other packing materials including wickerwork and steel mesh crates	..	444
Replacement parts for own machinery, plant and vehicles and consumable tools bought as replacement	..	2,215
All other purchased materials	..	3,697
Fuel and electricity		
	Th. tons	
Coal	662	2,305
Coke	21	78
Liquid fuel (including creosote/pitch mixtures)		
For use in internal combustion engines	Th.gal.	
Motor spirit (petrol) for use in road vehicles and derv. fuel	1,023	199
Other	267	12
For burning in furnaces, boilers, kilns, etc.	16,378	710
	Th.therms	
Gas purchased (a)	17,287	638
	..	147
Electricity purchased (b)	Th.kWh. 241,620	1,045
All other purchased fuel		34
Total cost		21,269

(a) The total quantity of gas produced amounted to 107,635 Th.therms.

(b) The total quantity of electricity generated in firms' own establishments in this industry in 1954 was 68,339 Th.kWh.

Average number of employees, and wages, salaries and superannuation payments (a)
Larger establishments in the United Kingdom

TABLE 10

	1951	1954
	Number	Number
Average number of employees		
Operatives	34,683	31,127
Administrative, technical and clerical employees	7,421	7,463
Total	42,104	38,590
	£'000	£'000
Wages and salaries paid to		
Operatives	12,508	13,901
Administrative, technical and clerical employees	3,538	4,209
Total	16,046	18,109
	£	£
Wages and salaries per head		
Operatives	361	447
Administrative, technical and clerical employees	477	564
		£'000
Superannuation and other pension funds for employees and dependents (b)	..	324
Employers' contributions	..	Number 21,094
Employees covered	..	£'000 82
Pension, etc. payments to former employees and dependents (b)	..	..

(a) The following persons, not included above, were also employed by larger establishments in this industry ('other workers' includes, for example, employees engaged in merchanting).

	1951	1954
	Number	Number
Canteen workers		
Male	13	12
Female	305	262
Total	318	274
Other workers		
Male	654	390
Female	216	340
Total	870	730
Total excluded employees	1,188	1,004
Outworkers	76	56
	£'000	£'000
Payments to outworkers	7	14

(b) The figures given relate to larger establishments in Great Britain only.

Employment in a specified week (a)
Larger establishments in the United Kingdom

	1951			1954		
	Males	Females	Total	Males	Females	Total
	Number					
Working proprietors	56	3	59	41	1	42
Operatives	26,950	8,225	35,175	24,251	7,547	31,798
Administrative, technical and clerical employees	4,447	3,056	7,503	4,455	3,061	7,516
Total employees	31,397	11,281	42,678	28,706	10,608	39,314

(a) Week ended September 22, 1951, or October 30, 1954.

LIST OF INDUSTRY REPORTS

VOLUME 1

- A. Coal Mines
- B. Non-Metalliferous Mines and Quarries (other than Coal, Salt and Slate)
- C. Salt Mines, Brine Pits and Salt Works
- D. Slate Quarries and Mines
- E. Metalliferous Mines and Quarries
- F. Brick and Fireclay
- G. China and Earthenware
- H. Glass Containers
- I. Glass (other than Containers)
- J. Cement
- K. Abrasives
- L. Building Materials
- M. Manufactured Fuel

VOLUME 2

- A. Coke Ovens and By-products
- B. Dyes and Dyestuffs
- C. Fertiliser, Disinfectant, Insecticide and Allied Industries
- D. Coal Tar Products
- E. Chemicals (General)
- F. Drugs and Pharmaceutical Preparations
- G. Toilet Preparations and Perfumery
- H. Explosives and Fireworks
- I. Paint and Varnish
- J. Soap, Candles and Glycerine
- K. Polishes
- L. Ink
- M. Match
- N. Mineral Oil Refining
- O. Oils and Greases
- P. Seed Crushing and Oil Refining
- Q. Glue, Gum, Paste and Allied Industries
- R. Plastics Materials

VOLUME 3

- A. Blast Furnaces
- B. Iron and Steel (Melting and Rolling)
- C. Iron Foundries
- D. Steel Sheets
- E. Tinplate
- F. Wrought Iron and Steel Tubes
- G. Non-Ferrous Metals (Smelting, Rolling, etc.)
- H. Scrap Metal Processing
- I. Motor Vehicles and Cycles (Manufacturing)
- J. Motor Vehicles and Cycles (Repairing)
- K. Aircraft Manufacture and Repair
- L. Railway Locomotive Shops and Locomotive Manufacturing
- M. Railway Carriages and Wagons and Trams
- N. Carts, Perambulators, etc.

VOLUME 4

- A. Shipbuilding and Ship Repairing
- B. Marine Engineering
- C. Machine Tools
- D. Textile Machinery and Accessories
- E. Small Arms
- F. Constructional Engineering
- G. Mechanical Handling Equipment

VOLUME 4 (contd.)

- H. Printing and Bookbinding Machinery
- I. Mechanical Engineering (Metal)
- J. Mechanical Engineering (Repairing)
- K. Electrical Engineering (General)
- L. Electric Wires and Cables
- M. Radio and Telecommunications
- N. Batteries and Accumulators
- O. Electric Lighting Accessories and Fittings

VOLUME 5

- A. Tool and Implement
- B. Cutlery
- C. Chain, Nail, Screw and Miscellaneous Forgings
- D. Wire and Wire Manufactures
- E. Hardware, Hollow-ware, Metal Furniture and Sheet Metal
- F. Brass Manufactures
- G. Needles, Pins, Fish Hooks and Metal Smallwares
- H. Scientific, Surgical and Photographic Instruments, etc.
- I. Watch and Clock
- J. Jewellery and Plate
- K. Precious Metals Refining
- L. Musical Instruments

VOLUME 6

- A. Cotton Spinning and Doubling
- B. Cotton Weaving
- C. Woollen and Worsted
- D. Rayon, Nylon, etc. Production
- E. Rayon, Nylon, etc. Weaving, and Silk
- F. Flax Processing
- G. Linen and Soft Hemp
- H. Jute
- I. Rope, Twine and Net
- J. Hosiery and Other Knitted Goods
- K. Lace
- L. Carpets
- M. Narrow Fabrics
- N. Canvas Goods and Sacks
- O. Textile Converting
- P. Made-up Household Textiles
- Q. Textile Finishing
- R. Textile Packing

VOLUME 7

- A. Asbestos
- B. Flock and Rag
- C. Hair, Fibre and Kindred Industries
- D. Leather (Tanning and Dressing)
- E. Feltmongery
- F. Leather Goods
- G. Fur
- H. Tailoring, Dressmaking, etc.
- I. Hats, Caps and Millinery
- J. Glove
- K. Umbrella and Walking Stick
- L. Boot and Shoe

VOLUME 8

- A. Grain Milling
- B. Bread and Flour Confectionery
- C. Biscuit
- D. Bacon Curing and Sausage

VOLUME 8 (contd.)

- E. Preserved Meat
- F. Milk Products
- G. Ice Cream
- H. Sugar and Glucose
- I. Cocoa, Chocolate and Sugar Confectionery
- J. Preserved Fruit and Vegetables

VOLUME 9

- A. Margarine
- B. Fish Curing
- C. Cattle, Dog and Poultry Foods
- D. Vinegar and Other Condiments
- E. Starch
- F. Ice
- G. Miscellaneous Preserved Foods
- H. Brewing and Malting
- I. Wholesale Bottling
- J. Spirit Distilling
- K. Spirit Rectifying and Compounding
- L. Soft Drinks, British Wines and Cider
- M. Tobacco

VOLUME 10

- A. Timber
- B. Furniture and Upholstery
- C. Soft Furnishings
- D. Shop and Office Fitting
- E. Wooden Containers and Baskets
- F. Paper and Board
- G. Wallpaper
- H. Cardboard Box, Carton and Fibre-board Packing Case
- I. Manufactured Stationery, Paper Bag and Kindred Industries
- J. Newspaper and Periodical Printing and Publishing
- K. Printing and Publishing, Bookbinding, Engraving, etc.

VOLUME 11

- A. Rubber
- B. Linoleum, Leathercloth and Allied Industries
- C. Brushes and Brooms
- D. Toys and Games
- E. Sports Requisites
- F. Miscellaneous Stationers' Goods
- G. Cinematograph Film Production
- H. Cinematograph Film Printing
- I. Plastic Goods and Fancy Articles
- J. Incandescent Mantles

VOLUME 12

- A. Building and Contracting
- B. Local Authorities (Building and Civil Engineering)
- C. Railways (Civil Engineering)
- D. Tramway, Trolley Bus and Omnibus Undertakings (Civil Engineering)
- E. Canal, Dock and Harbour Undertakings (Civil Engineering)
- F. Gas Supply Industry
- G. Electricity Supply Industry
- H. Water Undertakings

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