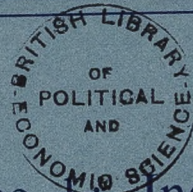


BOARD OF TRADE

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*The Report on the  
Census of Production  
for 1954*



Volume 1. Industry F

BRICK AND FIRECLAY

*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)*

LONDON: HER MAJESTY'S STATIONERY OFFICE

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# The Report on the Census of Production for 1954

VOLUME 1 INDUSTRY F

BRICK AND FIRECLAY

THIS REPORT on the Brick and Fireclay Industry relates to establishments engaged wholly or mainly in the manufacture of building bricks, clay flooring and roofing tiles, fireclay sanitary ware and other similar clay products, bath bricks, hearthstones, ground or flaked graphite and refractory goods such as ganister, magnesite and silica bricks, crucibles, gas retorts and kiln linings.

This industry corresponds to minimum list heading 20 in the Standard Industrial Classification with the addition of plumbago crucibles, bathbricks, hearthstones and ground or flaked graphite from Heading 29(3) relating to miscellaneous non-metalliferous mining manufactures.

The particulars given for each year are not precisely comparable as the majority of firms which manufactured brick and fireclay products and which owned the quarries at which brick-earth, clay, etc. were raised made combined returns in this industry covering both their factories and their associated quarries instead of making separate returns in respect of their quarries in the Non-Metalliferous Mines and Quarries (other than Coal, Salt and Slate) Industry. The proportion of returns in this industry which included quarries was about 70 per cent in 1948, 66 per cent in 1951, and 57 per cent in 1954. The average number of operatives recorded in this industry as employed in quarries and claypits in Great Britain in 1951 was 5,437 and in 1954, 5,143.

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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 1954	Wales 1954
	1948	1951	1954		
Gross output (production)	£ million 56.8	£ million 85.2	£ million 107.6	£ million 14.13	£ million 5.41
Net output	37.5	47.4	60.0	7.40	2.89
Total stocks and work in progress					
At beginning of year	7.3	9.6	11.4	1.65	0.53
Change during year	+ 1.6	+ 0.9	+ 1.2	+ 0.28	+ 0.07
Capital expenditure less disposals (a)	2.6	4.1	5.1	0.62	0.17
Wages and salaries	24.6	31.2	39.4	4.62	2.01
	Thousands	Thousands	Thousands	Thousands	Thousands
Total employment (including working proprietors)	74.3	78.9	80.3	10.06	4.37

(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
<b>FIRMS EMPLOYING ON AVERAGE MORE THAN 10 PERSONS</b>				
Number of establishments	No.	1,011	1,050	1,063
Total value of sales and work done	£'000	57,925	83,427	104,567
Products on hand for sale	"	4,306	5,643	6,023
and work in progress	"	+ 1,351	+ 294	+ 1,171
Gross output (production) (a)	"	55,054	83,720	105,738
Purchases of materials and fuel	"	18,853	28,548	33,538
Stocks of materials and fuel	"	2,753	3,797	5,134
Cost of materials and fuel used	"	+ 186	+ 614	+ 44
Payment for work done on materials given out	"	18,750(b)	27,934	33,494
Payment for transport (c)	"	24	40	202
	"	4,222	9,168	13,007
Net output	"	36,281	46,578	59,035
Average number of employees	No.	64,927	69,554	70,266
Total employment (e)	"	6,993(d)	7,867	8,538
Net output per person employed (e)	"	71,977	77,486	78,866
	£	504	601	749
Wages and salaries	£'000	20,674	26,565	33,497
	"	3,176	4,122	5,190
Capital expenditure	"	649	921	1,258
New building work (f)	"	1,770	2,312	3,094
Plant and machinery	"	90	100	75
Vehicles	"	281	649	838
	"	48	88	88
<b>FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS</b>				
Number of returns	No.	234	206(g)	203
Total employment, including working proprietors	"	1,328	1,321(g)	1,317

(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) Including brick levy of £82,000 paid to Ministry of Works. This levy ceased to be payable on March 31, 1949.

(c) 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.

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

(e) Excluding outworkers and including working proprietors.

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

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

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## BRICK AND FIRECLAY

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)	210	4,222	2,452	3,365	371	1,535	204	178	656
25 - 49	374	16,719	9,497	12,070	1,251	5,628	748	703	712
50 - 99	281	25,096	14,416	17,775	1,828	8,212	1,131	1,355	735
100 - 199	133	23,404	12,900	15,725	1,813	7,482	1,096	1,285	735
200 - 299	35	11,146	6,194	7,223	1,044	3,464	667	527	749
300 - 399	13	7,140	3,796	3,998	505	2,018	314	292	843
400 - 499	6	3,757	2,215	2,121	524	1,006	332	257	837
500 - 749	6	4,513	2,502	2,806	528	1,441	300	153	750
750 and over	5	9,741	5,065	5,183	674	2,710	397	439	865
Total	1,063	105,738	59,035	70,266	8,538	33,497	5,190	5,190	749

(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

TABLE 4

Larger establishments in the United Kingdom

	Unit	Specialist producers of					Remainder of the industry	Total
		Building bricks (other than Fletton type), flooring and wall partition blocks	Fletton bricks	Roofing tiles of clay	Refractory goods (other than plumbago and other crucibles)	Sanitary ware (other than cement, concrete or earthenware)		
Number of establishments	No.	558	120	64	163	100	58	1,063
Total value of sales and work done	£'000	32,690	20,325	4,017	26,551	14,153	6,830	104,567
Sales of characteristic products	"	31,081	19,215	3,608	24,983	12,351	6,830	104,567
Products on hand at beginning of year	"	1,332	375	408	1,726	1,520	660	6,023
Change during year	"	+ 590	+ 82	+ 149	+ 272	+ 77	+ 1	+ 1,171
Gross output (production)	"	33,280	20,408	4,165	26,824	14,230	6,832	105,738
Purchases of materials and fuel	"	10,123	3,686	1,130	11,591	4,816	2,192	33,538
Stocks of materials at beginning of year	"	1,116	708	89	2,207	650	363	5,134
Change during year	"	+ 52	+ 38	+ 2	- 5	- 5	- 38	+ 44
Cost of materials and fuel used	"	10,070	3,648	1,128	11,597	4,820	2,229	33,494
Payment for work done on materials given out	"	20	5	-	2,951(a)	41	493(a)	202
Payment for transport	"	3,425	4,943	413	916	916	493(a)	13,007
Net output	"	19,764	11,811	2,624	12,275	8,452	4,109	59,035
Average number of employees	No.	25,187	12,828	3,556	13,630	10,377	4,688	70,266
Total employment (b)	"	2,254	1,508	317	2,366	1,363	730	8,538
Net output per person employed (b)	"	27,471	14,342	3,880	15,999	11,751	5,423	78,866
Wages and salaries	£'000	719	824	676	767	719	758	749
Capital expenditure	"	11,872	6,669	1,653	6,328	4,789	2,185	33,497
New building work (c)	"	1,385	897	201	1,365	877	465	5,190
Plant and machinery	"	419	195	42	306	221	75	1,258
Acquisitions (c)	"	1,012	598	161	795	304	224	3,094
Disposals (a)	"	30	(a)	3	12	5	(a)	75
Vehicles	"	302	261	34	85	78	78	838
Disposals	"	29	10	8	19	13	9	88

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

(b) Excluding outworkers and including working proprietors.

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

(89057)

## BRICK AND FIRECLAY

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

Larger establishments in the United Kingdom

TABLE 5

	1951		1954		
	Quantity	Value	Quantity	Value	Entries
	Th. tons	£'000	Th. tons	£'000	Number
Fireclay (including saggar marl)	345.1	849(b)	234.4	588	65
Other clays			358.4	99	53
Brick-earth and clay, marl and shale			..	28	
Sand	118.9	222	56.6	38	13
Other kinds			57.9	182	20
			..	18	
Bricks, building	Mn.		Mn.		
Of brick-earth, clay, shale or marl					
Fletton type					
Common	1,985.3	10,018	2,427.7	14,048	89
Facing	515.4	3,541	732.3	5,553	37
Non-Fletton type					
Common	2,147.2	12,738	2,208.5	15,789	437
Facing	877.8	8,172	990.1	10,752	330
Engineering	193.7	2,141	213.6	2,549	111
			..	294	
Glazed or enamelled bricks	5.1	291	3.7	222	11
Sand-lime bricks	122.5	645	155.1	938	18
Other building bricks	149.6	925	215.7	1,797	101
	..	155(c)	..	..	..
Total building bricks	5,996.6	38,471	6,946.7	51,648	..
	..	155	..	294	..
	Mn.	Th. tons	Mn.	Th. tons	
Clay and terra-cotta flooring and wall partition blocks	33.9	162.3	39.8	184.8	19
		836	..	27.0	122
Roofing tiles of clay					
Plain	169.1	190.2	1,346	89.8	98.2
	101.2	..	800	193.1	..
Single lap	14.9	41.8	459	19.3	46.9
	7.2	..	107	14.0	..
Other, including ridges, hips, valleys, etc.	11.0	24.9	342	16.7	27.7
	3.0	..	106	5.4	..
Flooring quarries and street paving tiles (other than of pre-cast concrete)	86.5	90.5	896	53.0	47.4
	10.0	..	143	40.5	..
			Th. sq. yds.		
			79.4	2.5	65
			28.9	..	62
			..	2.5	26
			..	..	15
Other tiles (d)					
	281.4	347.3	3,043	..	225.2
	121.4	..	1,155	..	2,519
	..	10.6	203	..	2,768
	..	..	84	..	..
Total tiles					

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## BRICK AND FIRECLAY

TABLE 5 (contd.)

	1951		1954		
	Quantity	Value	Quantity	Value	Entries
	Th. tons	£'000	Th. tons	£'000	Number
Agricultural drainpipes of clay, unglazed	108.5	607	99.4	617	75
Sanitary ware	..	76	..	63	
Drainpipes, angles, bends, elbows and traps (other than of pre-cast concrete)	498.5	7,113	530.9	8,580	91
Other sanitary ware					
Of fireclay, glazed or enamelled					
Lavatory basins	2.4	259	10.2	871	24
Sinks	38.1	2,007	38.7	2,370	25
W.C. pans	2.9	292	4.1	429	23
Other	9.0	672	8.6	606	18
Unclassified					
Other descriptions	..	404	10.3	369	12
Pipes and tubes of stoneware or fireclay for electrical and other purposes, not sanitary ware	114.2	1,240	136.0	1,815	24
Refractory goods					
Firebricks up to and including bricks of 9 inch x 4½ inch x 3 inch	828.5	4,660	720.5	5,190	114
Firebricks or lumps, including tiles and bricks exceeding 9 inch x 4½ inch x 3 inch	357.8	4,439	278.4	4,188	97
Bauxite and other bricks, shapes and tiles containing over 50 per cent alumina	16.3	542	(e)	(e)	(e)
High alumina bricks containing between 44 and 60 per cent alumina	(e)	(e)	8.9	382	17
High alumina bricks containing 60 per cent or more of alumina	(e)	(e)	15.1	687	14
Silica bricks up to and including bricks of 9 inch x 4½ inch x 3 inch	133.6	1,275	143.9	1,804	25
Silica bricks or lumps, including tiles and bricks exceeding 9 inch x 4½ inch x 3 inch	109.9	1,489	122.6	2,351	24
Siliceous bricks and shapes (75-92 per cent silica)	43.9	430	17.2	211	7
Insulating bricks	26.5	835	21.0	799	19
Magnesite bricks	24.2	639	..	136	
Chrome bricks	5.2	115	28.7	1,006	10
Chrome-magnesite bricks	62.1	1,447	3.4	101	8
Dolomite bricks			69.5	2,324	9
Other refractory bricks	49.3	1,058	11.5	278	..
Sillimanite bricks	9.0	472	49.1	1,064	16
Total refractory bricks	1,666.5	17,402	1,489.8	20,385	..
			..	136	
Retorts, fireclay, silica and siliceous	Th. ft. 73.5	158	Th. ft. 21.9	46	10
	..	238	..	190	
Refractory cement	Th. tons 148.4	1,418	Th. tons 139.9	2,019	67
Other sorts of refractory goods including plumbago and other crucibles	..	4,757	..	..	..
Silica stone, ground and unground	78.4	276	..	5,104(f)	87

## BRICK AND FIRECLAY

TABLE 5 (contd.)

	1951		1954		
	Quantity	Value	Quantity	Value	Entries
	Th. tons	£'000	Th. tons	£'000	Number
Refractory goods (contd.)					
Graphite, ground, flaked, etc. (g)	2.8	198	..	130(f)	..
Unclassified refractory goods	..	127	..	..	..
Flowerpots, unglazed	14.2	337	15.7	392	23
Chimney pots	..	51	..	..	..
Architectural terra-cotta and faience, glazed or unglazed, excluding charges for fixing	15.2	284	12.5	251	44
Other products of the industry, including bath bricks, hearthstones and the like	..	..	..	28	
Waste products	..	228	..	242	8
Work done (e.g. fixing architectural terra-cotta and faience roofing) (h)	..	206	..	129	71
	..	125	..	192	282
Total		83,621		104,581	..
Sales in other industries (see Table 6)		1,074		772	..
Principal products of this industry sold by establishments in the industry		82,547		103,810	936

(a) For bricks, tiles, etc. of cement or concrete see the Building Materials Industry (Volume 1, Industry L). The quarry products included in this table are limited to those included in returns for this industry. They will not be included in the report on the Non-Metalliferous Mines and Quarries (other than Coal, Salt and Slate) Industry (Volume 1, Industry B).

(b) Recorded as

Fireclay sold	Th. tons	£'000
Ground	218.4	655
Unground	126.7	194

(c) Including 'Unclassified'.  
 (d) Excluding glazed wall and hearth tiles and tiles for tessellated pavements, for which see the China and Earthenware Industry (Volume 1, Industry G).  
 (e) Not separately recorded.  
 (f) Owing to the risk of disclosure of information relating to individual firms separate particulars cannot be given.  
 (g) So far as separately recorded.  
 (h) 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. tons	£'000	Number	
Bricks, building				
Of brick-earth, clay, shale or marl				
Fletton type, common	..	99	16	1D, 1G, 3A, 12A
Non-Fletton type, common				
All other building bricks				
Sanitary ware (excluding sanitary earthenware)				
Drainpipes, angles, bends, elbows and traps (except pre-cast concrete)				
Other sanitary ware	8.9	158	5	1G, 1L
Of fireclay glazed or enamelled	..	20	..	..
Lavatory basins				
W.C. pans				
Refractory goods		29	..	21, 4C
Refractory cement				

TABLE 6 (contd.)

## BRICK AND FIRECLAY

	1954			Principal industries in which produced (a)
	Quantity	Value	Entries	
	Th.tons	£'000	Number	
Refractory goods (contd.)				
Insulating bricks				
Other sorts of refractory goods	..	315	7	1I, 1L, 2E, 2I
Graphite, ground, flaked etc.				
Unclassified	..	19	..	1G, 12A
Flooring quarries of clay				
Flowerpots, unglazed				
Architectural terra-cotta and faience, glazed or unglazed, excluding charges for fixing	..	132	5	1G
Work done (e.g. fixing architectural terra-cotta and faience roofing) (b)				
Total		772	..	

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

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

TABLE 7

	1954	
	Quantity	Value
	Th.sq.yds.	£'000
Glazed wall and hearth tiles	78.1	137
Porcelain, earthenware or stoneware for industrial purposes (including electrical ware)	..	45
	Th.cwt.	
Stoneware, brown and yellow ware	26.3	26
	..	10
Red pottery and terra-cotta ware, glazed and unglazed (other than architectural, chimney pots and unglazed flower pots)	136.3	95
Tiled hearths and fireplace surrounds	..	80
	Th.tons	
Pre-cast concrete goods (including breeze blocks)	17.7	181
	..	71
Other goods	..	112
Total	..	757

Total quantity of clays etc., raised by establishments classified to the industry (a)

TABLE 8

## Larger establishments in the United Kingdom

Kind of clay, etc., raised	1951	1954	
	Quantity	Quantity	Entries
	Th.tons	Th.tons	Number
Fireclay	1,243	1,117	79
Other clays			
Brick-earth and clay	17,857	21,891	500
Shale and marl	2,306		
Sand	221	231	25

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## BRICK AND FIRECLAY

TABLE 8 (contd.)

Kind of clay, etc., raised	1951	1954	
	Quantity	Quantity	Entries
	Th.tons	Th.tons	Number
Other clays (contd.)			
Other kinds	542	276	31
Silica stone	89	56	9
Total	22,259	23,571	..

(a) Including clays returned in this industry which were used in making bricks, etc., in the firms' own works, but excluding output returned in the Non-Metalliferous Mines and Quarries (other than Coal, Salt and Slate) Industry (Volume 1, Industry B).

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

TABLE 9

	Quantity	Cost
	Th.tons	£'000
Materials		
Brick-earth, clay, shale or marl	8,564.0	903
Fireclay	1,229.3	2,007
Silica stone	317.6	606
Magnesite	62.2	1,111
Chrome	67.2	984
Dolomite	214.9	117
Bauxite	12.3	218
Sillimanite, kyanite and andalusite	20.9	551
Glaze or materials for glaze	..	215
	Th.cu.ft.	
Timber (other than for packing and excluding plywood, blockboard, laminboard and battenboard)	209.1	129
	..	41
Packing materials	..	534
Replacement parts for firms' machinery, plant and vehicles, and consumable tools bought as replacements	..	4,266
All other purchased materials	..	5,268
Fuel and electricity	Th.tons	
Coal	3,476	12,035
Coke	116	559
Liquid fuels (including creosote/pitch mixtures)		
For use in internal combustion engines	Th.gal.	
Motor spirit (petrol) for use in road vehicles and derv. fuel	5,555	1,034
Other	2,058	163
For burning in furnaces, boilers, kilns, etc.	8,935	383
Gas purchased	Th.therms	
From Gas Boards	5,896	181
From other sources, including other departments of the same firms	..	..
Electricity purchased (a)	Th.kWh.	
From Electricity Boards	377,914	2,053
From other sources, including other departments of the same firms	24,807	115
All other purchased fuel	..	65
Total cost		33,538

(a) The total quantity of electricity generated in firms' own establishments in this industry in 1954 was 14,877 Th. kWh.

(89057)

## BRICK AND FIRECLAY

Average number of employees and wages, salaries  
and superannuation payments (a)

TABLE 10 Larger establishments in the United Kingdom

	1951	1954
	Number	Number
Average number of employees		
Operatives	69,554	70,266
Administrative, technical and clerical employees	7,867	8,538
Total	77,421	78,804
Wages and salaries paid to	£'000	£'000
Operatives	26,565	33,497
Administrative, technical and clerical employees	4,122	5,190
Total	30,687	38,687
Wages and salaries per head	£	£
Operatives	382	477
Administrative, technical and clerical employees	524	608
Superannuation and other pension funds for employees and dependents (b)		£'000
Employers' contributions	..	375
Employees covered	..	13,091
		£'000
Pension, etc. payments to former employees and dependents (b)	..	43

(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	150	168
Female	421	524
Total	571	692
Other workers		
Male	301	438
Female	58	46
Total	359	484
Total excluded employees	930	1,176

(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
Working proprietors	61	4	65	55	7	62
Operatives	65,036	4,712	69,748	65,939	4,494	70,433
Administrative, technical and clerical employees	5,930	2,028	7,958	6,302	2,179	8,481
Total employees	70,966	6,740	77,706	72,241	6,673	78,914

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

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- 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

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- R. Plastics Materials

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- C. Iron Foundries
- D. Steel Sheets
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- 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
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- 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
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- L. Musical Instruments

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- E. Rayon, Nylon, etc. Weaving, and Silk
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- G. Linen and Soft Hemp
- H. Jute
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- I. Hats, Caps and Millinery
- J. Glove
- K. Umbrella and Walking Stick
- L. Boot and Shoe

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- C. Biscuit
- D. Bacon Curing and Sausage

## VOLUME 8 (contd.)

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- I. Cocoa, Chocolate and Sugar Confectionery
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- M. Tobacco

## VOLUME 10

- A. Timber
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- C. Soft Furnishings
- D. Shop and Office Fitting
- E. Wooden Containers and Baskets
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- G. Wallpaper
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- J. Newspaper and Periodical Printing and Publishing
- K. Printing and Publishing, Bookbinding, Engraving, etc.

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- H. Cinematograph Film Printing
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- E. Canal, Dock and Harbour Undertakings (Civil Engineering)
- F. Gas Supply Industry
- G. Electricity Supply Industry
- H. Water Undertakings

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