THE BRICK AND FIRECLAY TRADES.

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Introductory.*

The tables on pages 204 to 208 are based on returns received from firms in Great Britain and Northern Ireland whose business in 1924 consisted wholly or mainly in the manufacture of bricks and fireclay goods other than pottery, including the extraction of brick-earth or fireclay from the firms' own workings or mines. The number of such separate returns was 1,606. About 80 firms to which schedules were sent did not furnish returns, but these firms for the most part had very small establishments and they included a number that ceased operations before the end of the censal year. On the basis of the information available it is estimated that they did not employ more than 650 persons in all, and that their total net output probably did not exceed £100,000.

Summary of results.—The following table shows the main results of the Censuses of 1924, 1912 and 1907, comparisons between the figures for the three years being subject to the qualifications mentioned in the next paragraph.

^{*} See also the Notes on pp. vii to xv.

In addition, firms that made their returns on schedules for the Brick and Fireclay Trades recorded the receipt in 1924 of £29,000 for fixing terra-cotta and architectural faience, fitting retorts, etc.

Other products.—In addition to the products dealt with in the preceding tables, the firms that made their returns on schedules for the Brick and Fireclay Trades included in their output the following goods which, being of kinds mainly produced in other trades, are dealt with in the reports on those trades:—

	1924.	1912.	1907.
Kind of goods.	Selling value.	Selling value.	Selling value.
	£'000.	£'000.	£'000.
Red pottery, glazed tiles and other earthenware	247	121	31
Clay goods	3	4	
Cement, lime, artificial stone, etc	61	40	27
Quarry products sold	60	71	45
TOTAL VALUE	371	236	103

^{*} See footnote (§) to table on page 197.

Value of output free from duplication.—The aggregate value of the output recorded in the returns made on schedules for the Brick and Fireclay Trades in 1924 was £21,101,000, a figure which is free from duplication except in so far as any of the fireclay and silica stone sold, and valued at £487,000, may have been sold by the mining or quarrying firms to other firms that made their returns on schedules for the Brick and Fireclay Trades. This fireclay and silica stone may also have been sold outside the Brick and Fireclay Trades for lining furnaces or to pottery firms for making sanitary ware. Consideration of the returns suggests that the maximum value of fireclay and silica stone that can have been sold within the Brick and Fireclay Trades, and was therefore duplicated in the gross output value, was £350,000. The value, free from duplication, of the output returned on schedules for the Brick and Fireclay Trades for 1924 may, accordingly, be estimated as lying between £20,750,000 and £21,100,000.

Cost of materials.—The cost of materials used by firms that made their returns on schedules for the Brick and Fireclay Trades was returned as £6,527,000 in 1924, a sum which, by the exclusion of purchases of the products of other firms in the trade, is reduced to an amount lying between £6,175,000 and £6,525,000.

Net output.—The net output in 1924 of the firms that made their returns on schedules for the Brick and Fireclay Trades (whose gross output was valued at £21,101,000) was £14,574,000, that sum representing, without duplication, the total amount by which the value, as delivered, of the aggregate output exceeded the cost, as purchased, of the materials used.

The net output per head of persons employed in the censal year 1924 was £207, as compared with £82 in 1912 and £78 in 1907.

Exports and imports.—The following table compares for the year 1924 the exports and retained imports of certain products of the Brick and Fireclay Trades with the quantities produced in the United Kingdom:—

Kind of goods.	Production.	Exports.	Retained imports.
Building bricks	Million. 4,066·1 344·3	Million. 5.9	Million. 85·0
Other tiles (except glazed wall and hearth tiles and tiles for tesselated pavements)		12.2	23.9
Firebricks	Th. tons. 1079·3 228·6	Th. tons.	Th. tons. 10·1

The average value of building bricks produced in the United Kingdom in 1924 was £2.86 per 1,000, at works, that of exported bricks £6.38, f.o.b., and that of imported bricks £2.54, c.i.f.

Wages in 1924.

Under the Census of Production Act, 1906, the powers of the Board of Trade to require information do not extend to particulars of the amount of wages paid, and, consequently, no information on this head was secured in connexion with the Census of 1924. As a result, however, of the voluntary enquiry undertaken by the Ministry of Labour into wages and hours in the United Kingdom in 1924, information was obtained as to the total wage-bill of a group of firms in the Brick and Fireclay Trades that made returns both to the Ministry of Labour and to the Census of Production office. According to the Census records this group of firms employed, in the week ended 18th October, 1924, 38,278 operatives, or 57 per cent. of the total of 66,963 operatives for the trades as a whole, and their net output totalled £8,446,000, or 58 per cent. of the aggregate net output of £14,574,000 for the trades as a whole. The total wage-bill of these firms, as returned to the Ministry of Labour, was £4,708,000, representing about 56 per cent. of their aggregate net output.

Employment.

The detailed information relating to employment in 1924 is summarised in Table III on pages 206 and 207. The following table sets out certain particulars for that year together with those relating to the two previous censal years. For the purpose of this comparison, the average numbers of operatives of each sex returned for 1924 have been divided between the two age-groups in the proportions shown by the data relating to the week ended 18th October.

Particulars.	Unit.	1924.	1912.	1907.
Value of goods made and work done (Gross output) Cost of materials used Net output Average number of persons employed Net output per person employed Mechanical power available :—	£'000 ,, No. £	21,101 6,527 14,574 70,324 207	7,279 2,427 4,852 58,864 82	8,324 2,867 5,457 69,592 78
Prime movers	H.P.	132,029	120,130	138,794
electricity	,,	31,511	4,817	(not recorded

Qualifications affecting comparisons.—In considering the above table and the other tables in this report which show figures for different censal years, the following qualifications should be borne in mind:—

(1) The comparability of figures relating to value or cost is affected by the changes which have taken place in the general purchasing power of money.

(2) The Censuses of 1907 and 1912 covered Great Britain and the whole of Ireland, but that of 1924 applied only to Great Britain and Northern Ireland. In the Census of 1907 the gross output returned in the Brick and Fireclay Trades for the whole of Ireland was £123,000 and the number of persons employed was 1,447. Further, according to the Census of Production taken by the Government of the Irish Free State in respect of the year 1926, the total value of the bricks made in that year was returned as £33,500.

(3) The Censuses of 1907 and 1924 extended to all firms, however small, but in 1912 firms employing not more than five persons (excluding the proprietors) were required to state only the average number of persons employed by them in the year. According to the information so furnished, the number of persons employed in the establishments thus excluded was 2,282, or 3.9 per cent. of the number employed by the remaining firms, as shown in the above table.

Value of output and cost of materials.—The figures in the above table representing the value of goods made and work done and the cost of materials used are the aggregates of the figures recorded by the firms that made returns, and, for the reasons explained in paragraphs (i) and (ii) on pages xii and xiii, they may overstate the value of the output of, and the cost of the materials used by, the Brick and Fireclay Trades considered as a whole. The matter is discussed on page 200, where it is estimated that the value, free from duplication, of the output of the Brick and Fireclay Trades in 1924 lay between £20,750,000 and £21,100,000, and the cost of the materials purchased from sources outside the trade and worked up into its products lay between £6,175,000 and £6,525,000.

Production.

Detailed information relating to the output of the Brick and Fireclay Trades in 1924 will be found in Table II on pages 204 and 205.

In addition to the output dealt with in this report, bricks valued, on a cost basis, at £13,000 were made in 1924 by Local Authorities.

Clay.—The output of brick-earth, fireclay, etc., from the workings, quarries, or mines of firms that made their returns in 1924 on the schedule for the Brick and Fireclay Trades, whether sold direct from the workings, etc., or used by the same firms in making bricks, etc., was returned as follows:—

Tons.

70 400 000
78,488,600
1,219,400
384,100
14,863,600
191,700
69,900

Corresponding figures for 1907 are not available.

Comparison between 1924, 1912 and 1907.—The following statement shows, for the three censal years, the value and, where recorded, the quantity of the principal products made for sale by the Brick and Fireclay Trades, including not only the bricks and fireclay goods manufactured by firms that made their returns on schedules for those trades, but also those made by firms whose returns were furnished on schedules for other trades:—

V:-d -fdd	19:	24.	1912	2.	190	07.
Kind of goods made and work done.	Quantity.	Selling value.	Quantity.	Selling value.	Quantity.	Selling value.
Building bricks	Million. 4066·1	£'000. 11,636	Million.	£'000.	Million.	£'000.
Firebricks Silica bricks	Th. tons. 1079·3 228·6 Million.	2,208 805	3,720.5	5,172	4,794 · 7	6,373
Roofing and street paving tiles	407·5† Th. tons.	2,123	216.9	375	308.6	536
Agricultural pipes	79.1	155	Not	separate	ly record	ed.
Pipes and tubes of fire- clay or stoneware Enamelled sanitary	408.7‡	2,307‡		168‡	\right\}	778‡
ware of fireclay	38.3‡	618‡		404‡		
Fireclay retorts	Th. feet. 193.6 Th. tons.	117		60	4 1.	57
Other refractory goods	55·7 Th. c. ft.	269		627	4.	242
Architectural terra- cotta and faience	345.0	167	0.003.11	106	D	287

† Equivalent to 495,200 tons.

§ Including red pottery, glazed tiles and other earthenware.

[‡] As returned on schedules for the Brick and Fireclay Trades only; see also report on the China and Earthenware Trades, pages 212 and 213.

The classification of goods on the schedules issued at the Censuses of 1907 and 1912 was the same as that used for the purpose of recording imports and exports. On the occasion of the Census of 1924 the Employers' National Council for the Clay Industries represented that this classification was not suitable for the purposes of an industry that was mainly concerned with the home trade, and suggested that firms in the Brick and Fireclay Trades should be asked to furnish particulars of their output in much greater detail. This suggestion was adopted and, although the furnishing of the additional detail was voluntary, all firms, with the exception of a few whose output was of relatively little importance, supplied the desired particulars. Some estimates have been made in the tables

regarding the details omitted by these few firms.

Comparison between the results of the three Censuses is made difficult, partly by the less amount of detail secured at the two earlier Censuses, and partly by the different classification of fireclay and refractory goods in 1924. With regard to the separation of building bricks from fireclay bricks, firms were asked in 1907 to state the weight of fire-bricks made by them and information was received in respect of an output of 1,124,000 tons of fire-bricks of all sizes, but it is not certain what proportion of the total output of fire-bricks this return covered. On the whole it appears reasonable to conclude that there was not much change in the production either of fire-bricks or of building bricks in 1924 compared with 1907, although the total output in both these years was substantially greater than in 1912. The average number of operatives employed in 1924 and 1907 was almost identical, but the post-war reduction in the average number of hours worked per week, taken in conjunction with the increase in the mechanical power available in 1924, is consistent with the conclusion that there was not much difference in the volume of output of the Brick and Fireclay Trades in 1924 and 1907, although the value of the gross output increased by about 150 per cent. and that of the net output by about 165 per cent.

Output in 1924.—The following statement sets out in greater detail the quantity and value of the main products of the Brick and Fireclay Trades in 1924:—

	Returned on schedules for					
Kind of goods made.	The Brick clay T	and Fire- rades.	All trades.			
	Quantity.	Selling value.	Quantity.	Selling value.		
	Million.	€'000.	Million.	£'000.		
Building bricks:— Glazed or enamelled Other sorts	41·6 4,014·8	489 11,113	42·3 4,023·8	498 11,138		
Total—Building bricks	4,056 · 4	11,602	4,066 · 1	11,636		
Tiles:— Roofing Street paving and other sorts (excluding glazed wall and hearth	344 · 1	1,647	344 · 3*	1,648		
tiles and tiles for tesselated pavements)	56.7	394	63 · 2†	475		
Total—Tiles	400 · 8	2,041	407.5	2,123		
Architectural terra - cotta and	Th. cub. ft.	ELW MINES	Th. cub. ft.	a de la companya de l		
faience, glazed and unglazed (excluding charges for fixing)	250·0 Th. tons. 79·1	120 155	345·0 Th. tons. 79·1	167 155		
Pipes and tubes of fireclay or stone- ware Enamelled sanitary ware of fireclay	408·7 38·3	2,307 618	408·7‡ 38·3‡	2,307 618		
odost je solov monigamot Odost je solov monigamot	Th. tons.	gersa ascoro	Th. tons.	0.000.000		
Firebricks:— Of 9 in. \times 4½ in. \times 3 in. and under Over 9 in. \times 4½ in. \times 3 in.	827·6 250·8	1,386 820	828·5 250·8	1,388 820		
Total—Firebricks	1,078 · 4	2,206	1,079 · 3	2,208		
Silica bricks:— Of 9 in. \times $4\frac{1}{2}$ in. \times 3 in. and under Over 9 in. \times $4\frac{1}{2}$ in. \times 3 in	164·6 64·0	496 309	164·6 64·0	496 309		
Total—Silica bricks	228.6	805	228.6	805		
Retorts of fireclay	Th. ft. 193·6 Th. tons.	117	Th. ft. 193·6 Th. tons.	117		
Other refractory goods Bath bricks, hearth stones, etc Fireclay sold	394·3 175·9	194 49 317 170	55·7 394·3 175·9	269 62 317 170		
TOTAL VALUE	TOOOLIEU	20,701	201817 24	20,954		

^{*} Equivalent to 381,600 tons.

[†] Equivalent to 113,600 tons.

[†] Not including similar products returned on schedules for the China and Earthenware Trades (pages 212 and 213).

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and the second in a	Ma	les.	Fem	ales.	Males and	Males and females.	
Average number	Under 18.	All ages.	Under 18.	All ages.	Under 18.	All ages.	
1924. Operatives	8,016 486	59,804 4,240	1,005 96	5,704 576	9,021 582	65,508 4,816	
TOTAL	8,502	64,044	1,101	6,280	9,603	70,324	
1912. Wage earners Salaried	6,389	51,720 3,171	637	3,837 136	7,026	55,557 3,307	
TOTAL	6,672	54,891	671	3,973	7,343	58,864	
1907. Wage earners Salaried	8,627 318	61,669 3,579	474 19	4,197 147	9,101 337	65,866 3,726	
TOTAL	8,945	65,248	493	4,344	9,438	69,592	

The proportion of female operatives to the total was 6.4 per cent. in 1907, 6.9 per cent. in 1912 and 8.7 per cent in 1924.

The numbers of operatives recorded month by month in 1924 ranged from 5,740 below the average, in January, to 3,103 above the average, in July (see Table IIIB, page 207). The total rose steadily until July, and was above the year's average from May onwards; it decreased somewhat after September.

Mechanical Power.

The detailed information relating to mechanical power in 1924 is summarised in Table IV on page 208. The following table sets out the particulars for the three censal years relating to the capacity and kinds of prime movers and the capacity of electric generators installed.

perture a dispersional decision of the	terms to	1924.	Free In	1912.	1907.
Power equipment.	Ordinarily in use.	In reserve or idle.	Total.	Total.	Total.
THE THE STATE OF THE PROPERTY OF THE PARTY.	H.P.	H.P.	H.P.	H.P.	H.P.
PRIME MOVERS:— Reciprocating steam engines Steam turbines Gas engines Petrol and light oil engines Heavy oil engines Water power Other	107,982 156 11,396 1,986 2,668 142	6,397 12 1,183 90 3 14	114,379 168 12,579 2,076 2,671 156	111,226 65 8,129 615 95	$ \left.\begin{array}{c} 130,053 \\ 42 \\ \hline 8,521 \\ 106 \\ 72 \end{array}\right) $
TOTAL	124,330	7,699	132,029	120,130	138,794
ELECTRIC GENERATORS:—	Kw.	Kw.	Kw.	Kw.	Kw.
Driven by— Reciprocating steam engines Steam turbines	4,291 15	503	4,794 15	2,479	2,116
Gas engines Petrol and light oil engines Heavy oil engines Water power Other prime movers	835 55 437 59	294 35 7 40	1,129 90 444 99	295	567
TOTAL	5,692	879	6,571	2,781	2,683

The capacity of electric motors recorded in 1924 and in 1912 was as shown below:-

		1912.		
Electric motors.	Ordinarily in use.	In reserve or idle.	Total.	Total.
Driven by— Electricity generated in own	H.P.	H.P.	H.P.	H.P.
works	6.966	1,162	8,128	2,691
Purchased electricity	29,214	2,297	31,511	4,817

Corresponding information was not required for 1907. The total number of Board of Trade units of electricity purchased for power and lighting purposes in that year was returned as 1,169,000.

Machinery and plant.

All firms were asked to furnish voluntarily particulars of the number and capacity of the ovens or kilns and of certain classes of machines in their works at the end of 1924. Information was supplied by firms with the following output:—

1 1	_		THE RESERVE AND ADDRESS OF THE PARTY OF THE
Kind of goods made.		Output of firms that supplied information.	Proportion of total output of trade.
Building bricks Roofing and street paving tiles	Box	Million. 2,785·2 310·8 Th. tons. 242·1 49·5 655·8	Per cent. 68·7 78·6 59·2 62·6 60·8
Retorts of fireclay Gross output	THE COLUMN	Th. ft. 135·6 £'000. 14,164	70·1 67·0

The number and capacity of the ovens, etc., recorded by the firms that returned the output shown above were as follows:—

Kind of plant.		engaged in goods of	Weekly capacity.		
Kind of plants	Fireclay.	Brick-earth.	Fireclay.	Brick-earth.	
Ovens and kilns* $\begin{cases} \text{In use} \\ \text{Idle} \end{cases}$ Brick making machines† $\begin{cases} \text{In use} \\ \text{Idle} \end{cases}$ Tile making machines† $\begin{cases} \text{In use} \\ \text{Idle} \end{cases}$	1,371 186 147 25 15 5	2,735 183 992 107 143 24 80 15	Thous. bricks or tiles. 9,755 1,875, 5,221 2,341 269 1,565 Tons. 18,065 561	Thous. bricks or tiles. 67,485 8,120 63,649 4,627 11,745 1,585 Tons. 4,585 21,099	
Retort making machines $\Big\{ \begin{tabular}{l} $		5 1	Feet. 4,700 1,700	Feet. 16,038 11,340	

^{*} In addition, 12 ovens and kilns (weekly capacity, 160,000 bricks or tiles) were recorded but no further details were given.

[†] In addition, 3 brick and tile making machines (weekly capacity, 140,000) were recorded but no further details were given.

[‡] In addition, 2 pipe making machines (weekly capacity, 80 tons) were recorded but no further details were given.

TABLES.

I.—Summary of results.

Particulars.	Unit.	England and Wales.	Scotland.	Great Britain.	Northern Ireland.
Value of goods made and work done (Gross output)	£'000 ,,, ,, No. £ H.P.	19,130 5,841 13,289 63,863 208 119,048	1,773 622 1,151 5,640 204 11,782	20,903 6,463 14,440 69,503 208 130,830	198 64 134 821 164
Electric motors driven by pur- chased electricity	,,	25,621	5,890	31,511	

II.—Production.

A.—Total quantity of certain kinds of clay and stone raised DURING THE YEAR, AS RETURNED ON SCHEDULES FOR THE BRICK AND FIRECLAY TRADES.

Kind of product.	England and Wales.	Scotland.	Great Britain.	Northern Ireland.
Brick-earth, earth, clay, etc Shale	Th. tons. 77,686 · 4 14.863 · 6*	Th. tons. 640·8	Th. tons. 78,327·2 14.863·6*	Th. tons. 161·4
Fireclay	933 · 7*	285.7	1,219 · 4*	*
Sand, marl, etc	384 · 1		384 · 1	_
Other clays, rubbish, etc	55.9	6.3	$62 \cdot 2$ $191 \cdot 7$	7.7

^{*} In order to avoid the possible disclosure of information relating to individual firms, the figures for Northern Ireland have been included with those for England and Wales and for Great Britain.

† In order to avoid the possible disclosure of information relating to individual firms, figures are given only for Great Britain as a whole.

B.—Output sold or added to stock and work done.

Kind of goods made and work done.	Unit.	England and Wales.	Scotland.	Great Britain.	Northern Ireland.
Building bricks:—		Ona	ntity and	selling v	alue
Glazed or enamelled {	Million.	* 244	*	41.6	—
Grazed of enamerica	€'000	*	*	489	_
All other classes \$	Million.	3,700.2	259.5	3,959.7	55.1
··· \	£'000	10,299	644	10,943	170
Total—Building bricks	Million.	*	*	4,001·3 11,432	55·1 170
Files (excluding glazed wall and hearth tiles and tiles for tesselated pavements):—	molecus				
Roofing	Million.	*	*	344.1	_
}	£'000	*	*	1,647	
Street paving and other sorts	Million.	*	*	56.7	-
	€,000	-		394	
Total value—Tiles	£'000	*	*	2,041	
Agricultural pipes, unglazed {	Th. tons.	64.1	15.0	79.1	<u> </u>
Pipes and tubes of fireclay or	£'000 Th. tons.	$126 \\ 370 \cdot 41$	29 38·3	155	+
stoneware	£'000	2,130‡	177	$408 \cdot 7 \ddagger 2,307 \ddagger$	* * *
Enamelled sanitary ware of fire-	Th. tons.	25.6	12.7	38.3	+
clay	£'000	433	185.	618	
Refractory goods :—					
Ground {	Th. tons.	253:4	48.6	302.0	
Fireclay sold	£'000	220	37	257	. —
Unground	Th. tons.	82.9	9.4	92.3	_
()	£'000	* 55	* 5	60	_
Ground {	Th. tons. £'000	*	*	$\begin{array}{c} 149 \cdot 2 \\ 158 \end{array}$	
Silica stone sold \	Th. tons.	25.7	1.0	26.7	
Unground {	£'000	12	†	12	_
Bricks:—	~				
Firebricks, 9 in. \times 4½ in. \times 3 in. \int	Th. tons.	607 · 8	219.5	827 · 3	0.3
and under	£'000	990	395	1,385	1
Firebricks or lumps, including	Th. tons.	210.7	40.1	250.8	_
quarries, tiles and bricks over $9 \text{ in.} \times 4\frac{1}{2} \text{ in.} \times 3 \text{ in.}$	£'000	675	145	820	-
Silica bricks, 9 in. \times 4½ in. \setminus	Th. tons.	*	*	164.6	
\times 3 in. and under	£'000	*	*	496	
Silica bricks or lumps, includ-					
ing quarries, tiles and bricks	Th. tons.	*	*	$64 \cdot 0$	
over 9 in. $\times 4\frac{1}{2}$ in. $\times 3$ in.	€,000			309	
Fireclay retorts	Th. ft. £'000	*	*	$193 \cdot 6$ 117	_
_	Th. tons.	34.4	7.6	42.0	
Other refractory goods {	£'000	155	39	194	
TOTAL VALUE—Refractory goods	€'000	3,137	671	3,808	1
architectural terra-cotta and		-,,,,,,			-
faience, glazed and unglazed	Th. c. ft.	250.01	<u></u>	250·0t	†
(excluding charges for fixing by	€,000	1201		1201	‡
makers' workpeople)				T	
Bath bricks, hearth stones, etc	€'000	49	_	49	_
Quarry products sold		50	10	60	-
••••	TI	10.1		$10 \cdot 1$	_
rucibles $\langle $	Thous.				The state of the s
	Thous. £'000	3	-	3	
Red pottery, glazed tiles and other	£'000	3	— 12		
Red pottery, glazed tiles and other earthenware	£'000	235		247	_
Red pottery, glazed tiles and other earthenwareement, lime, artificial stone, etc	£'000	3			
ted pottery, glazed tiles and other earthenware ement, lime, artificial stone, etc ixing terra-cotta, retorts, etc	£'000	3 235 61	_	247 61	
Red pottery, glazed tiles and other earthenware	£'000	3 235 61	_	247 61	=
Red pottery, glazed tiles and other earthenware	£'000	3 235 61	_	247 61	198

^{*} See footnote (†) to Table IIA.

[†] Less than £500.

[‡] See footnote (*) to Table IIA.

[§] Amount received for work done.

III.—Employment.

A.—Numbers employed in week ended 18th October, 1924.

	Ma	les.	Fem	ales.	Males and females.		
Kind of staff.	Under 18.	All ages.	Under 18.	All ages.	Under 18.	All ages.	
England and Wales:— Operatives	7,423 449	56,280 3,926	754 81	4,525 501	8,177 530	60,805 4,427	
TOTAL	7,872	60,206	835	5,026	8,707	65,232	
Scotland:— Operatives Administrative, etc.*	732 33	4,091 274	262 15	1,244 72	994 48	5,335 346	
TOTAL	765	4,365	277	1,316	1,042	5,681	
Great Britain:— Operatives Administrative, etc.*	8,155 482	60,371 4,200	1,016 96	5,769 573	9,171 578	66,140 4,773	
TOTAL	8,637	64,571	1,112	6,342	9,749	70,913	
Northern Ireland:— Operatives Administrative, etc*	49 4	823 40	=		49 4	823 43	
TOTAL	53	863		3	53	866	
United Kingdom:— TOTAL	8,690	65,434	1,112	6,345	9,802	71,779	

^{*} Administrative, technical and clerical staff.

B.—Operatives employed in one week in each month of 1924.

England and Wales. (Annual average: Males, 54,966; Females, 4,470; Total, 59,436.)

Week ende	d	Males.	Females.	Total.	Week ended	Males.	Females.	Total.
Jan. 12th	• •	49,930	4,224	54,154	July 19th	57,801	4,621	62,422
Feb. 16th	• •	50,845	4,243	55,088	Aug. 16th	57,170	4,618	61,788
Mar. 15th	••	51,890	4,286	56,176	Sept. 13th	57,576	4,596	62,172
Apl. 12th May 17th		53,720	4,396	58,116 60.174	Oct. 18th Nov. 15th	56,280 55,605	4,525	60,805
June 21st		57,129	4,529	61,658	Dec. 13th	55,966		60,525

Scotland. (Annual average: Males, 4,060; Females, 1,234; Total, 5,294.)

Jan. 12th	3,762	1,123	4,885	July 19th	4,103	1,267	5,370
Feb. 16th	 3,822	1,156	4,978	Aug. 16th	4,208	1,285	5,493
Mar. 15th	 3,957	1,231	5,188	Sept. 13th	4,174	1,243	5,417
Apl. 12th	 4,033	1,262	5,295	Oct. 18th	4,091	1,244	5,335
May 17th	 4,137	1,227	5,364	Nov. 15th	4,112	1,230	5,342
June 21st	4,238	1,282	5,520	Dec. 13th	4,088	1,251	5,339

Great Britain. (Annual average: Males, 59,026; Females, 5,704; Total, 64,730.)

Jan. 12th	 53,692	5,347	59,039	July 19th	 61,904	5,888	67,792	
Feb. 16th	 54,667	5,399	60,066	Aug. 16th	 61,378	5,903	67,281	
Mar. 15th	 55,847	5,517	61,364	Sept. 13th	 61,750	5,839	67,589	
Apl. 12th	57,753	5,658	63,411	Oct. 18th	 60,371	5,769	66,140	
May 17th	 59,814	5,724	65,538	Nov. 15th	 59,717	5,779	65,496	
June 21st	 61,367	5,811	67,178	Dec. 13th	 60,054	5,810	65,864	

Northern Ireland. (Annual average: Males, 778; Females, —; Total, 778.)

Jan. 12th	 729	- 1	729	July 19th	819		819
Feb. 16th	 706	_	706	Aug. 16th	858	-	858
Mar. 15th	 701		701	Sept. 13th	870		870
Apl. 12th	743		743	Oct. 18th	823		823
May 17th	801	_	801	Nov. 15th	773		773
June 21st	 732		732	Dec. 13th	778	_	778

IV.—Mechanical Power.

PARTICULARS OF PRIME MOVERS, ELECTRIC GENERATORS AND ELECTRIC MOTORS.

	England a	and Wales.	Scot	land.	Great Britain.		
Power equipment.	Ordinarily in use.	In reserve or idle.	Ordinarily in use.	In reserve or idle.	Ordinarily in use.	In reserve or idle.	
Prime movers:—	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	
Reciprocating steam engines Steam turbines	96,379 156 11,375	5,070 12 1,183	10,464	1,275 — —	106,843 156 11,391	6,345 12 1,183	
Petrol and light oil engines	1,957 2,667 142	90 3 14	26 1 —	=	1,983 2,668 142	90 3 14	
TOTAL	112,676	6,372	10,507	1,275	123,183	7,647	
Total of prime movers installed	119	9,048	11,782		130,830		
ELECTRIC GENERATORS: Driven by— Reciprocating steam engines Steam turbines Gas engines Petrol and light oil engines Heavy oil engines Water power Total Total of electric Generators installed	3,683 15 835 47 437 59 5,076	Kw. 463 294 35 7 40 839	590 	40 — 40 — 40 — 40 — 40	Kw. 4,273 15 835 55 437 59 5,674	503 	
ELECTRIC MOTORS:— Driven by— Electricity generated in own works Purchased electricity	H.P. 6,389 23,915	H.P. 1,162 1,706	H.P. 572 5,299	H.P	H.P. 6,961 29,214	H.P. 1,162 2,297	

The power equipment returned for Northern Ireland was as follows:—

PRIME MOVERS.				H.P.
Reciprocating steam engines				1,191
Gas engines				5
Petrol and light oil engines	••.	••	••	3

ELECTRIC MOTORS driven by electricity generated in own works 5

With the exception of reciprocating steam engines of a capacity of 52 horse-power, the whole of the power equipment of Northern Ireland was returned as being ordinarily in use.