SLATE MINES AND QUARRIES

Note.—For information regarding the scope of the Census, instructions given to firms for making returns, and definitions of the terms used in this report, reference should be made to the Introductory Notes on pages v to xviii.

Introductory

This trade comprises firms that were engaged wholly or mainly in the mining or quarrying of slate. The following table shows the main results of the Censuses of 1930 and 1924 in respect of firms in Great Britain that employed an average of more than ten persons:—

Particulars	Unit	1930	1924
Value of products (Gross output)	£'000	1,738	2,161
Cost of materials used	,,	114	152
Net output	,,	1.624	2,009
Average number of persons employed	No.	9,868	9,968
Net output per person employed	£	165	202
Prime movers	H.P.	8.581	6,290
Electric motors driven by purchased electricity	,,	12,195	9,826
Number of returns	No.	59	59
Number of mines and quarries	,,	61	*

^{*} Not available.

Deficiencies in 1930 aggregates.—The aggregate number of persons employed in 1930 by firms that stated that they employed not more than ten persons on the average was 79, the corresponding figure for 1924 being 147. The value of the gross output of the small firms in 1924 was £21,000, of which £19,000 represented slate for roofing purposes and £2,000, slate slabs.

Size of firms.—In the following table the main particulars recorded at the Census of 1930 are grouped according to the average numbers of persons shown in the returns:—

Size of firm (average numbers employed)	Number of returns	Gross output	Net output	Average number of persons employed	Net output per person employed
	No.	£'000	£'000	No.	£
11-24	18	36	33	304	108
25-49	11	62	57	400	143
50-99	14	170	155	1,001	155
100-199	7	148	136	937	145
300-399 ,	4	220	199	1,382	144
400 and over	5	1,102	1,044	5,844	179
TOTAL	59	1,738	1,624	9,868	165
		CONTRACTOR SEC	and their mark	15	

Regional distribution.—In the following table the results recorded at the Censuses of 1930 and 1924 are grouped according to the principal areas* of Great Britain in which slate mines and quarries are situated:—

	Area	Number of returns	Gross output	Net output	Average number of persons employed	Net output per person employed
		No.	£,000	£'000	No.	£
9	ſ 1930	7	52	49	298	164
2	\ 1924	5	57	49	313	157
6	1930	8	98	86	589	147
0	\ 1924	8	54	50	331	151
8	1930	38	1,546	1,450	8,677	167
0	\ 1924	42	1,987	1,852	8,938	207
10	\(\) 1930	6	42	39	304	127
10	\ 1924	4	63	58	386	150
TOTAL	ſ 1930	59	1,738	1,624	9,868	165
TOTAL	\ 1924	59	2,161	2,009	9,968	202

Northern Ireland.—In the report published by the Government of Northern Ireland on the 1930 Census of Production, aggregate figures only are given in respect of the mining and quarrying industries. These aggregates are given in the report on Non-Metalliferous Mines and Quarries on pages 387-8. No production of slate was recorded for Northern Ireland at the 1924 Census.

Production

Principal products.—The following table shows the quantity and value of slate raised in 1930 and 1924:—

Slate		1930	1924		
Siate	Quantity	Value	Entries	Quantity	Value
	Tons	£'000	No.	Tons	£'000
Dressed slate	. 239,500	1,727	59	265,100	2,163
Undressed slate	. 4,600	1	6	-	-
TOTAL	. 244,100	1,728		265,100*	2,163*

* The output for 1924 was classified as follows:—

Prices.—The average selling value of dressed slate, as calculated from the Census returns, was £7.21 per ton in 1930 and £8.16 per ton in 1924, representing a decrease of 11.6 per cent. between the two years.

* For particulars see page xviii.

Volume of production in 1930 and 1924.—On the basis of the average selling values recorded for the two years, the output of slate in 1924 (£2,163,000) would represent a sum of about £1,912,000 if re-valued at the average value of dressed slate returned for 1930. The volume of production was thus about 10 per cent. less in 1930 than in 1924,

Exports and imports.—Separate figures are given in the trade returns only in respect of *slates for roofing*: particulars of the quantities of such slates exported from the United Kingdom in 1930 and 1924 are given below, together with corresponding particulars of the quantities imported and retained:—

	1930 Th. tons	1924 Th. tons
Slates for roofing :-		
Exports	 9.1	10.6
Retained imports	 44.6	11.6

Other products.—In addition to the output of slate shown above, other products valued at £10,000 in 1930 and at less than £500 in 1924 were returned by owners of slate mines and quarries.

Employment and Wages

The following table shows the average numbers of persons employed in 1930 and 1924:—

	TOUR	Males			Females			Total	
Persons employed	Under 16	16 and under 18	All	Under 16	16 and under 18	All	Under 16	16 and under 18	All
1930 Operatives (average for the year) Administrative, technical and clerical staff	186	450	9,618	2	19 (18) (10) (1)	2	186	450	9,620
(as at 13th December)	.5.14	2	243	-	1	5		3	248
TOTAL	186	452	9,861		1	7	186	453	9,868
1924 Operatives (average for the year) Administrative, technical and clerical staff (as at 18th	551	*	9,668	18.1 61 <u>2</u>		+	551	*	9,668
October)	3	*	291	1	*	9	4	*	300
TOTAL	554	*	9,959	1	*	9	555	*	9,968

* Not recorded.

Wages.—The available information as to the amount of wages paid in 1930 and 1924 is given on pages 366 and 367.

Power

The following table shows the capacity of prime movers, electric generators and electric motors ordinarily in use and in reserve or idle in 1930 and 1924:—

		1930			1924	
Power equipment	Ordinarily in use	In reserve or idle	Total	Ordinarily in use	In reserve or idle	Total
	H.P.	H.P.	H.P.	Н.Р.	H.P.	H.P.
PRIME MOVERS				-		
Reciprocating steam	000	251	7 700	1 695	470	9.105
engines	906	654	1,560	1,637	470	2,107 210
Steam turbines Internal combustion engines:—		10	10	200	10	210
Gas	688	_	688	630	100	730
Petrol, kerosene, or	THE REPORT			AND PERM		
other light oils	572	107	679	390	55	445
Heavy oils	2,383	150	2,533	485	20	505
Water engines	2,934	177	3,111	2,097	196	2,293
TOTAL	7,483	1,098	8,581	5,439	851	6,290
ELECTRIC GENERATORS	Kw.	Kw.	Kw.	Kw.	Kw.	Kw.
Driven by Internal combustion					-0.00	
engines :— Gas	23		23	20	12	35
Heavy oils	888	93	981	50		50
Water engines	1,249	25	1,274	1,005	124	1,00
TOTAL	2,160	118	2,278	1,075	12	1,087
	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
ELECTRIC MOTORS						
Driven by						6 m 19
Electricity generated	0.003	007	0.00-	7.050	0.4	1.70
in same works	3,282	385	3,667	1,670	34	1,704 $9,824$
Purchased electricity	10,395	1,800	12,195	9,047	779	9,82
Тотац	13,677	2,185	15,862	10,717	813	11,53

Consumption of fuel

The following table shows the quantities of coal, coke and electricity recorded as used in 1930:—

Kind of fuel used	For power (driving engines)	For other purposes (so far as recorded)	For power and other purposes, not separately distinguished
Coal	Tons 5,156 —	Tons 3,093* 44*	Tons 88 10
Electricity used for all purposes :— Generated in same works Purchased Tota			B.T.U. (Kwhrs.) '000 3,246 6,037 9,283

^{*} These figures were recorded by firms representing $90\cdot 1$ per cent. of the net output of the whole trade.

TABLES

I. Summary of results

Particulars	Unit	England and Wales	Scotland	Great Britain
Value of products (Gross output)	£'000	1,696	42	1,738
Cost of materials used	"	111	3	114
Net output	,,	1,585	39	1,624
Average number of persons employed	No.	9,564	304	9,868
Net output per person employed	£	166	127	165
Power available :—				See opposed to the constant
Prime movers	H.P.	8,350	231	8,581
Electric motors driven by purchased electricity	"	12,195		12,195

II. Production

Kind of products							Great Britain*		
	Kina	or broc	iucus				Quantity	Value	
Dressed slate							Th. tons 239·5	£'000 1,727	
Undressed slate							4.6	1	
Other products								10	
TOTAL VALUE O	F PROD	ucts (C	Ross o	OUTPUT)			1,738	

^{*} Owing to the possible disclosure of information relating to individual firms, detailed particulars cannot be given separately for England and Wales and for Scotland.

III. Employment

A.—Numbers employed in week ended 13th December, 1930

		Males		Maria S	Females			and fe	males
Persons employed	Under 16	16 and under 18	All ages	Under 16	16 and under 18	All	Under 16	16 and under 18	All
England and Wales:— Operatives Administra-	179	436	9,254	-	_	2	179	436	9,256
tive, etc.*	-	2	238	<u> </u>	1	3		3	241
TOTAL	179	438	9,492		1	5	179	439	9,497
Scotland:— Operatives Administra-	6	11	295	_	7.07 -	_	6	11	295
tive, etc.*	_	_	5	-	77	2	-	_	7
TOTAL	6	11	300		_	2	6	11	302
Great Britain: Operatives Administra-	185	447	9,549	_	-	2	185	447	9,551
tive, etc.*	-	2	243	-	1	5	_	3	248
TOTAL	185	449	9,792	_	1	7	185	450	9,799

^{*} Administrative, technical and clerical staff.

B.—Operatives employed at four specified dates in 1930

	193	0		Males and females				
神理 计 计	199	U		England and Wales	Scotland	Great Britain		
15th March			 ,	9,481	268	9,749		
14th June			 	9,326	315	9,641		
13th September			 	9,229	311	9,540		
13th December	•••		 	9,256	295	9,551		
AVERAGE				9,323	297	9,620		

IV. Power
Particulars of prime movers, electric generators and electric motors

D	England and Wales		Scotland		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
	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
PRIME MOVERS			31 8 300			
Reciprocating steam	898	654	8		906	654
engines Steam turbines	090	10	- 0		300	10
Internal combustion		10				10
engines :—					State of the	
Gas	688		_		688	
Petrol, kerosene, or			100			
other light oils	507	107	65	_	572	107
Heavy oils	2,225	150	158	-	2,383	150
Water engines	2,934	177	_		2,934	177
TOTAL	7,252	1,098	231	-	7,483	1,098
TOTAL OF PRIME MOVERS INSTALLED	8,350		231		8,581	
	Kw.	Kw.	Kw.	Kw.	Kw.	Kw.
ELECTRIC GENERATORS Driven by Internal combustion					7. 7. Table	T.
engines :—						
Gas	23	_	_		23	-
Heavy oils	838	93	50	_	888	93
Water engines	1,249	25			1,249	25
TOTAL	2,110	118	50	-	2,160	- 118
TOTAL OF ELECTRIC GENERATORS INSTALLED	2,228		50		2,278	
ELECTRIC MOTORS	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
Driven by						
Electricity generated	3,222	385	60		3,282	388
in same works Purchased electricity	10,395	1,800			10,395	1,800
			00			2,18
TOTAL	13,617	2,185	60		13,677	2,186
TOTAL OF ELECTRIC MOTORS INSTALLED	15,802		60		15,862	

V. Consumption of fuel

Kind of fuel used	England and Wales	Scotland	Great Britain
Coal used for power*	Tons 5,135	Tons 21	Tons 5,156
Electricity used for all purposes :— Generated in same works Purchased	B.T.U. (Kwhrs.) '000 3,162 6,037	B.T.U. (Kwhrs.) '000 84	B.T.U. (Kwhrs.) '000 3,246 6,037
Total—Electricity	9,199	84	9,283

^{*} In addition, 88 tons of coal and 10 tons of coke (all in England and Wales) were recorded as used for power and for other purposes, not separately distinguished.