

THE INCANDESCENT MANTLES TRADE

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 manufacture of incandescent mantles. As the trade is confined to England and Wales, the summary table (I) and the tables showing details of power equipment (IV) and consumption of fuel (V) are not appended to this report. The whole of this information is available in the tables given in the report itself.

The following table shows the main results of the Censuses of 1930 and 1924. The figures for both years are believed to cover all firms engaged in the manufacture of incandescent mantles.

Particulars	Unit	1930	1924
Value of goods made (Gross output)	£'000	641	574
Cost of materials used	"	240	219
Net output	"	401	355
Average number of persons employed (excluding outworkers)... ..	No.	1,716	2,201
Net output per person employed (excluding outworkers)	£	233	162
Power available—			
Prime movers	H.P.	326	390
Electric motors driven by purchased electricity	"	256	286
Number of returns	No.	10	13
Number of establishments	"	10	*

* Not available.

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 (excluding outworkers)	Net output per person employed
11-24	No. 4	£'000 45	£'000 18	No. 148	£ 123
100-749	6	596	383	1,568	244
TOTAL	10	641	401	1,716	233

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 firms in this trade are situated:—

Area	Number of returns	Gross output	Net output	Average number of persons employed (excluding outworkers)	Net output per person employed
	No.	£'000	£'000	No.	£
1 { 1930	7	577	376	1,529	246
{ 1924	10	555	348	2,126	164
2 { 1930	3	64	25	187	132
2 and 7 ... { 1924	3	19	7	75	93
TOTAL { 1930	10	641	401	1,716	233
{ 1924	13	574	355	2,201	162

Northern Ireland.—No production of incandescent mantles was recorded for Northern Ireland in 1930 or 1924.

Production

Incandescent mantles.—The output in 1930 of mantles for incandescent lighting, whether collodionised or not, was returned as 348,000 gross, valued at £639,000. For 1924, the output recorded was 305,000 gross, valued at £574,000. No production of incandescent mantles was recorded on schedules for other trades in either year.

Prices.—The average selling value of incandescent mantles, as calculated from the Census returns, was £1·84 per gross in 1930 and £1·88 per gross in 1924, a decline of 2·1 per cent. in the later year. It should be borne in mind that this comparison does not take account of any changes that may have occurred since the earlier year in the quality or type of mantles produced.

Volume of production.—The quantity of mantles for incandescent lighting recorded for 1930 was about 14 per cent. greater than in 1924, the recorded output in that year (£574,000) representing, in terms of values ruling in 1930, a sum of £562,000.

Production, exports and imports.—The following table shows, in relation to production, the quantities of mantles for incandescent

* For particulars see page xviii.

lighting exported from the United Kingdom in 1930 and 1924, together with the quantities imported and retained :—

Mantles for incandescent lighting	1930	1924
	Th. gross	Th. gross
Production	348	305
Exports	20	23
Retained imports	8	165
Available for use in the United Kingdom	336	447
	Per cent.	Per cent.
Proportion of production exported	5·8	7·5
Share of home market held by British products	97·6	63·1

In 1924 incandescent mantles were imported free of duty, but in 1930 a Safeguarding of Industries duty of 6 shillings per gross was levied on all mantles imported up to December 21, on which date the duty expired.

Other products.—In addition to the output of incandescent mantles referred to on page 345, firms that made their returns on schedules for this trade recorded a sum of £2,000 in respect of other goods made in 1930. These goods are dealt with in the reports on those trades in which the principal output was recorded. The value of other goods made in 1924 was negligible.

Employment and Wages

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

Persons employed	Males		Females		Total	
	Under 18	All ages	Under 18	All ages	Under 18	All ages
1930						
Operatives (average for the year)	14	134	499	1,465	513	1,599
Administrative, technical and clerical staff (as at 18th October)	2	45	4	72	6	117
TOTAL	16	179	503	1,537	519	1,716
1924						
Operatives (average for the year)	7	172	533	1,760	540	1,932
Administrative, technical and clerical staff (as at 18th October)	5	174	6	95	11	269
TOTAL	12	346	539	1,855	551	2,201
Average number of outworkers:—						
1930	—		54		54	
1924	—		2		2	

Wages.—The available information as to the amount of wages paid in 1930 and 1924 is given on pages 210 and 211.

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 :—

Power equipment	1930			1924		
	Ordinarily in use	In reserve or idle	Total	Ordinarily in use	In reserve or idle	Total
PRIME MOVERS						
Reciprocating steam engines	—	8	8	—	—	—
Internal combustion engines :—						
Gas	169	149	318	250	140	390
TOTAL	169	157	326	250	140	390
ELECTRIC GENERATORS						
Driven by	Kw.	Kw.	Kw.	Kw.	Kw.	Kw.
Internal combustion engines :—						
Gas engines	106	91	197	105	74	179
TOTAL	106	91	197	105	74	179
ELECTRIC MOTORS						
Driven by	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
Electricity generated in same works	177	33	210	180	41	221
Purchased electricity	232	24	256	251	35	286
TOTAL	409	57	466	431	76	507

Consumption of fuel

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

Kind of fuel used	For purposes other than power
	Tons
Coal	1,569
Coke	548
B.T.U. (Kw.-hrs.) '000	
Electricity used for all purposes :—	
Generated in same works	136
Purchased	170
TOTAL—Electricity	306

