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
lost 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 out- workers)	£	233	162
Power available	ILD	000	390
Prime movers	H.P.	326	and a state of the second state of the
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
	No.	£'000	£'000	No.	£
11-24	4	45	18	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.	£
$1 \dots \int 1930$	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
$TOTAL \begin{cases} 1930\\ 1924 \end{cases}$	10	641	401	1.716	233
10TAL 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 $\pounds 1.84$ per gross in 1930 and $\pounds 1.88$ 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 ($\pounds 574,000$) representing, in terms of values ruling in 1930, a sum of $\pounds 562,000$.

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

* For particulars see page xviii.

INCANDESCENT MANTLES

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

Mantles for incandescent lighting	1930	1924
Production Exports Retained imports Available for use in the United Kingdom Proportion of production exported Share of home market held by British products	$\begin{array}{cccc} & {\rm Th.\ gross} \\ & 348 \\ & 20 \\ & 8 \\ & 336 \\ & {\rm Per\ cent.} \\ & \\ & 5\cdot8 \\ & \\ & 97\cdot6 \end{array}$	Th. gross 305 23 165 447 Per cent. $7 \cdot 5$ $63 \cdot 1$

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 :—

And the second s	Males		Fen	ales	Total		
Persons employed	Under 18	All ages	Under 18	All ages	Under 18	All ages	
1930 Operatives (average for the year) Administrative, technical and	14	134	499	1,465	513	1,599	
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) Administrative, technical and	7	172	533	1,760	540	1,932	
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 1924		idacian <u>C</u> anipalat	and the state of the second state of the second states	$\frac{4}{2}$	-	$\frac{54}{2}$	

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 :—

		Construction of the second second second second			and a second state on the Property and the	and the second
and a party	THE SAL	1930		contaile .	1924	
Power equipment	Ordinarily in use	In reserve or idle	Total	Ordinarily in use	In reserve or idle	Total
PRIME MOVERS	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
Reciprocating steam engines Internal combustion	ST. Sugar	8	8			
engines :— Gas	169	149	318	250	140	390
Total	169	157	326	250	140	390
ELECTRIC GENERATORS Driven by Internal combustion	Kw.	Kw.	Kw.	Kw.	Kw.	Kw.
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 Purchased electricity	177 232	$\begin{array}{c} 33\\24 \end{array}$	210 256	$180 \\ 251$	$\begin{array}{c} 41\\ 35\end{array}$	$\begin{array}{c} 221\\ 286 \end{array}$
Total	409	57	466	431	76	507
and the state of the	CONTRACTOR OF THE OWNER OF THE OWNER	and a state of the second second	The second s		and the second second second	

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
Soal Coke		 		Tons 1,569 548
				B.T.U. (Kwhrs.) '000
Electricity used for all purposes :				190
Generated in same works Purchased	···· ···	 	···· ···	136 170
TOTAL—Electricity				306

TABLES

Note.—The following particulars relate throughout to England and Wales, no production being recorded for Scotland.

I. Summary of results (see page 344)

II. Production

Goods sold or added to stock	Value
Mantles for incandescent lighting (whether collodionised or not) Other products	£'000 639 (348,000 gross) 2
TOTAL VALUE OF GOODS MADE (GROSS OUTPUT)	641

III. Employment

A.—NUMBERS EMPLOYED IN WEEK ENDED 18TH OCTOBER, 1930 (EXCLUDING OUTWORKERS)

Persons employed	Ma	les	Fem	ales	Males and females		
(excluding outworkers)	Under 18	All ages	Under 18	All ages	Under 18	All ages	
Operatives	14	130	485	1,424	499	1,554	
Administrative, technical and clerical staff	2	45	4	72	6	117	
TOTAL	16	175	489	1,496	505	1,671	

B.—Operatives employed in one week in each month of 1930

Week ended	Males and females	Week ended	Males and females
January 18 February 15 March 15 April 12 May 17 June 21	$1,869 \\ 1,839 \\ 1,763 \\ 1,643 \\ 1,520 \\ 1,458$	July 19 August 16 September 13 October 18 November 15 December 13	1,450 1,467 1,518 1,554 1,555 1,553
Aver	AGE FOR THE TWELV	ZE MONTHS	1,599

C	·N	UMBERS	OF	OUTWORKERS	AT	TWO	SPECIFIED	PERIODS	IN	1930	
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	January			July	
Males	Females	Total	Males	Females	Total
	63	63		45	45

IV. Power (see page 347)

V. Consumption of fuel (see page 347)

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