THE INK, GUM AND SEALING WAX TRADES

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

These trades comprise firms that were engaged wholly or mainly in the manufacture of inks, gums and sealing wax. 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 goods made (Gross output)	£'000	3,468	2,823
Cost of materials used	,,	1,464	1,274
Net output	,,	2,004	1,549
Average number of persons employed	No.	4,029	3,212
Net output per person employed Power available :—	£	497	482
Prime movers	H.P.	2,639	1,627
Electric motors driven by purchased electricity		8,443	4,041
Number of returns	No.	64	55
Number of establishments	"	74	*

^{*} 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 237, the corresponding figure for 1924 being 392. The value of the gross output of the small firms in 1924 was £323,000, and particulars of the items included in this figure are given below:—

Printers' ink			 	£'000 123
				(18,000 cwts.)
Printers' sundries			 	27
Inks, other than prin	ters' i	nk		25
Gum-mucilage, paste,	etc.			80
Sealing wax				22
Typewriter sundries				34
Other goods made				12
goods and				12
TOTAL			 	323

In addition, 12 firms to which schedules were sent at the 1924 Census furnished no information; these firms either had small businesses or had ceased productive operations before the end of the censal year.

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	19	311	155	312	498
25-49	19	662	381	703	542
50-99	18	972	532	1,250	425
100–749	8	1,523	936	1,764	531
TOTAL	64	3,468	2,004	4,029	497

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 these trades are situated:—

Area	Number of returns	Gross output	Net output	Average number of persons employed	Net output per person employed
	No.	£,000	£'000	No.	£
(1930	46	2,925	1,737	3,178	547
1\\ 1924	37	2,320	1,267	2,310	548
71930	8	207	93	319	291
2 \ 1924	9	257	138	391	353
Ž1930	3	53	31	116	263
9 and 10 \\ \frac{1924}{1924}	3	59	31	118	263
Other (1930	7	283	143	416	344
areas { 1924	6	187	113	393	288
$_{\text{TOTAL}} \begin{cases} 1930 \\ 1924 \end{cases}$	64	3,468	2,004	4,029	497
10TAL \ 1924	55	2,823	1,549	3,212	482

Northern Ireland.—No production of ink, gum or sealing wax was recorded in Northern Ireland for either 1930 or 1924.

Production

Principal products.—The following table shows the value and, where available, the quantity of the principal classes of output in 1930 and 1924:—

1000 100 To 1000			19	930			1924		
Kind of goods		Returned on schedules for							
Trinc of goods	The Ink, Gum and Sealing Wax Trades			All trades			Total		
	Quan- tity	Value	Ent- ries	Quan- tity	Value	Ent- ries	Quan- tity	Value	
Printers' ink Printers' sundries	Th. cwts. 376	£'000 1,643	No. 31	Th. cwts. 398	£'000 1,863	No. 40	Th. cwts. 250	£'000 1,608	
(rollers, etc.) Inks, other than printers' ink (writing, marking, etc., and	10 ms	146	9	A A	150	12	er inge	140	
ink powders) Gum-mucilage, paste,	0 to 1921	365	15	(i(n)	392	28		451	
etc Sealing wax Typewriter sundries	393	356 25	18 5	409	373 37	28 8	EBANTON	225 55	
(ribbons, carbons, etc.)		855	12		855	13		503	
Total—Principal products	**327	3,390		age-qui	3,670	•••		2,982	

Prices.—The average selling value of printers' ink, as calculated from the Census returns, was £4.68 per cwt. in 1930 and £6.44 per cwt. in 1924, representing a decline of 27 per cent. in the later year. Average values of the remaining products cannot be calculated, as particulars of quantity are not available for both years.

Volume of production in 1930 and 1924.—As figures of average values are not available for the products of these trades, apart from printers' ink, the change in the volume of production in the two years can only be roughly estimated. From such particulars as are known regarding manufacturing costs in the two years, it is estimated that the total value of the output in 1924 (£2,982,000) represented, in terms of 1930 values, a sum of approximately £2,370,000, indicating an increase in volume in 1930 of about 55 per cent.

Production, exports and imports.—In the following table exports and retained imports of printers' ink in 1930 and 1924 are shown in relation to the quantities manufactured. As regards the 1930 figure of production, the deficiencies referred to on page 413 should be borne in mind; the 1924 figure includes the output of the small firms.

^{*} For particulars see page xviii.

Printers' ink		1930	1924
their renter was sorough states qualification	BATT-	Th. cwts.	Th. cwts.
Production		398	288
Exports		36	27
Retained imports		7	12
Available for use in the United Kingdom		369	273
THE RESERVE TO THE PARTY OF THE		Per cent.	Per cent.
Share of home market held by British products		98.1	95.6

Exports of writing ink and ink powder were valued (f.o.b.) at £165,000 in 1930 and £183,000 in 1924, and retained imports (c.i.f.) at £8,000 in 1930 and £15,000 in 1924. The remaining products of these trades are not distinguished separately in the trade returns.

Other products.—In addition to the output shown in the table of principal products on page 415, other goods valued at £78,000 for 1930 and £120,000 for 1924 were recorded by firms that made their returns on schedules for the Ink, Gum and Sealing Wax Trades. Of these sums, £41,000 (176,000 gallons) in 1930 and £61,000 (225,000 gallons) in 1924 related to varnish (including litho and letterpress varnish).

Employment and Wages

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

and a standard standard	Males		Females		Total	
Persons employed	Under 18	All	Under 18	All	Under 18	All ages
1930 Operatives (average for the year) Administrative, technical and	182	1,835	214	795	396	2,630
clerical staff (as at 18th October)	74	946	81	453	155	1,399
TOTAL	256	2,781	295	1,248	551	4,029
1924 Operatives (average for the year) Administrative, technical and	214	1,479	204	742	418	2,221
clerical staff (as at 18th October)	40	674	50	317	90	991
TOTAL	254	2,153	254	1,059	508	3,212

Wages.—The available information as to the amount of wages paid in 1930 and 1924 is given on pages 252 and 253.

INK.

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:—

banasang and sagi	2.22	1930	on Carl		1924	
Power equipment	Ordinarily in use	In reserve or idle	Total	Ordinarily in use	In reserve or idle	Total
Prime movers Reciprocating steam	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
engines Internal combustion engines :—	1,418	677	2,095	782	398	1,180
Gas Heavy oils Water engines	348 110 60	26	374 110 60	437 —	10	447
TOTAL	1,936	703	2,639	1,219	408	1,627
ELECTRIC GENERATORS Driven by	Kw.	Kw.	Kw.	Kw.	Kw.	Kw.
Reciprocating steam engines Internal combustion	493	268	761	158	152	310
engines :— Gas Heavy oils Water engines	 6 4 0	18 _ _	18 6 40	12 _ _		19 — —
TOTAL	539	286	825	170	159	329
ELECTRIC MOTORS Driven by	H.P.	H.P.	H.P.	H.P.	н.Р.	H.P.
Electricity generated in same works Electricity generated in other works under same owner-	984		984	94	65	159
ship Purchased electricity	31 7,881	562	31 8,443	3,806		4,041
TOTAL	8,896	562	9,458	3,900	300	4,200

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 3,436 103	Tons 3,160* 1,743*	Tons 1,400
Electricity used for all purposes:— Generated in same works Generated in other works under Purchased Tota			B.T.U. (Kwhrs.) '000 383 13 4,160

^{*} These figures were recorded by firms representing $99 \cdot 3$ per cent. of the net output of the whole trade.

TABLES

I. Summary of results

Particulars	Unit	England and Wales	Scotland	Great Britain
106.2 000 121 001 002.				CERTIFICATION OF THE PARTY OF T
Value of goods made (Gross output)	£'000	3,415	53	3,468
Cost of materials used	,,	1,442	22	1,464
Net output	,,	1,973	- 31	2,004
Average number of persons employed	No.	3,913	116	4,029
Net output per person employed	£	504	263	497
Power available :—		Assistant Services	1,1100 600	ter enverying
Prime movers	H.P.	2,639	Sin series	2,639
Electric motors driven by purchased				
electricity	,,	8,412	31	8,443
The same of the sa		Antonio del pares de la comita del	a comment of the same	and the formal designation of

II. Production

W:-1 6 - 1 1	Great Br	ritain*
Kind of goods made	Quantity	Value
And The Control of th	Th. cwts.	£'000
Printers' ink	376	1,643
Printers' sundries (rollers, etc.)	in the same of the	146
Inks, other than printers' ink (writing, marking, etc.,	de-8 Jane	
and ink powders)		365
Gum-mucilage, paste, etc	393	356
Sealing wax		25
Typewriter sundries (ribbons, carbons, etc.)		855
TOOLS TO THE REAL PROPERTY OF THE PARTY OF T	Th. galls.	
Varnish (including litho and letterpress varnishes)	176	41
Other goods made	1	37
THE RESERVE OF THE PARTY OF THE		27.4
TOTAL VALUE OF GOODS MADE (GROSS OUTPUT)	M	3,468

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

III. Employment

A.—Numbers employed in week ended 18th October, 1930

	Males		Females		Males and females	
Persons employed	Under 18	All	Under 18	All	Under 18	All
England and Wales:— Operatives Administrative, etc.*	177 74	1,780 937	189 78	721 441	366 152	2,501 1,378
TOTAL	251	2,717	267	1,162	518	3,879
Scotland:— Operatives Administrative, etc.*	3	33	22	65 12	25 3	98 21
TOTAL	, 3	42	25	77	28	119
Great Britain:— Operatives Administrative, etc.*	180 74	1,813 946	211 81	786 453	391 155	2,599 1,399
TOTAL	254	2,759	292	1,239	546	3,998

^{*} Administrative, technical and clerical staff.

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

Week	Male	es and fem	iales	Week ended	Males and females		
ended	England and Wales	Scotland	Great Britain	m (amilian) 2	England and Wales	Scotland	Great Britain
100		***					or naike
Jan. 18	2,533	86	2,619	July 19	2,547	102	2,649
Feb. 15	2,538	91	2,629	Aug. 16	2,518	91	2,609
Mar. 15	2,553	101	2,654	Sept. 13	2,501	91	2,592
April 12	2,565	102	2,667	Oct. 18	2,501	98	2,599
May 17	2,594	90	2,684	Nov. 15	2,493	90	2,583
June 21	2,587	103	2,690	Dec. 13	2,495	93	2,588
AVE	RAGE FOR	THE TWE	ELVE MON	THS	2,535	95	2,630

IV. Power

Particulars of prime movers, electric generators and electric motors

The State of the Land	Power equipment				Great Britain*				
	100	or oqu	тршене				Ordinarily in use	In reserve or idle	
1.000	1393						H.P.	H.P.	
PRIME MOVERS		200							
Reciprocatin						•••	1,418	677	
Internal com		engine	s:-				0.40	0.0	
Gas	•••	•••	•••	•••	•••	•••	348	26	
Heavy oils		•••	•••	•••	•••	•••	110	-	
Water engin	es	•••		•••		•••	60		
TOTAL	2.2		.23				1,936	703	
Total of prime movers installed							2,639		
							Kw.	Kw.	
ELECTRIC GEN	ED ATORS						IXW.	IXW.	
Driven by	EIVATOINS								
Reciproca	ting stea	m eng	ines				493	268	
Internal c							100	200	
Gas			mes .				_	18	
Heavy							6		
Water eng							40	_	
TOTAL		•••	•••	•••			539	286	
Total of electric generators installed					825				
							H.P.	H.P.	
ELECTRIC MOT	ORS								
Driven by									
Electricity	generat	ed in	same w	orks			984		
Electricity					under	same			
ownersh							31	_	
Purchased							7,881	562	
							8,896	562	
TOTAL	•••						0,000		

^{*} The only power equipment recorded for Scotland consisted of electric motors, driven by purchased electricity, of a total capacity of 31 horse-power (27 horse-power ordinarily in use and 4 horse-power in reserve or idle).

V. Consumption of fuel

Kind of fuel used	England and Wales	Scotland	Great Britain
Coal used for power*	Tons 3,436 103	Tons — —	Tons 3,436 103
Electricity used for all purposes:— Generated in same works Generated in other works under same ownership Purchased	B.T.U. (Kwhrs.) '000 383 13 4,122	B.T.U. (Kwhrs.) '000 — — — 38	B.T.U. (Kwhrs.) '000 383 13 4,160
TOTAL—Electricity	4,518	38	4,556

^{*} In addition, 1,400 tons of coal (all in England and Wales) were recorded as used for power and for other purposes, not separately distinguished.