

THE TEXTILE FINISHING 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 bleaching, dyeing, printing and finishing of all textile products apart from lace goods, the finishing processes on which are dealt with in the report on the Lace Trade.

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 10 persons. The figures for 1930 are inclusive of the output, etc., of firms engaged in the cutting of pile fabrics (see page 191), but no particulars in respect of this process were obtained at the Census of 1924.

Particulars.	Unit.	1930.	1924.
Value of work done (Gross output)	£'000.	29,002	41,357
Cost of materials used	"	10,055	13,928
Paid for work given out to other firms	"	584	371
Net output	"	18,363	27,058
Average number of persons employed	No.	99,613	108,397
Net output per person employed	£	184	250
Mechanical power available :—			
Prime movers	H.P.	198,129	202,826
Electric motors driven by purchased electricity	"	99,072	64,427
Number of returns	No.	745	783
Number of establishments	"	857	*

* Not available.

Deficiencies in 1930 aggregates.—The aggregate number of persons employed in 1930 by firms that stated that they employed not more than 10 persons on the average was 1,140, including 156 persons employed by firms in the cutting of pile fabrics, regarding which no information was obtained at the 1924 Census. The number of persons employed by small firms in the Textile

Finishing Trade in 1924 was 569. The value of the gross output of the small firms in 1924 was £249,000, and particulars of the kinds of work included in this figure are given below. Included in the total is the sum of £13,000 in respect of the finishing of woollen and worsted tissues and other work done in Northern Ireland, separate particulars of which are not available for publication.

	£'000
Cotton waste (dyeing, etc.)	9
Raw wool (bleaching, dyeing, etc.)	18
Cotton yarns (bleaching, dyeing, etc.)	48
Woollen and worsted yarns (stoving, dyeing, finishing, etc.)	14
Cotton piece-goods (bleaching, dyeing, printing or finishing)	17
Woollen and worsted tissues (stoving, dyeing, finishing, etc.)	96
Other work	60
Total	262

In addition, 34 firms to which schedules were sent at the 1930 Census, and 60 at that of 1924, 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).	No. of returns.	Gross output.	Net output.	Average number of persons employed.	Net output per person employed.
		£'000.	£'000.		£
11-24	111	575	342	1,906	179
25-49	196	2,222	1,366	7,035	194
50-99	176	3,790	2,380	12,806	186
100-199	154	6,062	3,969	20,961	189
200-299	53	3,634	2,312	12,528	185
300-399	22	1,834	1,262	7,277	173
400-499	9	1,062	652	4,037	162
500-749	15	2,211	1,346	9,253	145
750 and over	9	7,612	4,734	23,810	199
TOTAL	745	29,002	18,363	99,613	184

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.	No. of returns.	Gross output.	Net output.	Average number of persons employed.	Net output per person employed.
		£'000	£'000		£
2	{ 1930 376 1924 363	16,991 23,061	10,739 15,193	56,099 58,306	192 261
3	{ 1930 158 1924 192	5,586 8,768	3,424 5,492	16,632 20,338	206 269
6	{ 1930 92 1924 81	2,419 3,592	1,614 2,454	10,752 11,652	150 211
9	{ 1930 44 1924 50	2,173 3,523	1,272 2,246	8,701 10,285	146 218
10	{ 1930 41 1924 43	882 1,252	593 867	3,425 3,861	173 225
Other areas	{ 1930 34 1924 49	951 1,161	671 806	4,004 3,905	168 206
TOTAL	{ 1930 745 1924 783	29,002 41,357	18,363 27,058	99,613 108,397	184 250

Northern Ireland.—The following table summarises the particulars recorded at the Census of Production of Northern Ireland for 1930 and 1924. For 1930 the information relates only to firms that employed an average of more than *five* persons, and for 1924 to *all* firms.

Particulars.	Unit.	1930.	1924.
Value of work done (Gross output)	£'000.	1,377	2,064
Cost of materials used	"	469	624
Paid for work given out to other firms	"	24	39
Net output	"	884	1,401
Average number of persons employed	No.	5,641	6,440
Net output per person employed	£	157	218
Mechanical power available:—			
Prime movers	H.P.	17,864	17,920
Electric motors driven by purchased electricity	"	769	50

* For particulars see page xviii.

The chief classes of goods finished included in the gross output values shown in the above table were as follows:—

Kind of goods finished.	1930.		1924.	
	Quantity.	Value of work done.	Quantity.	Value of work done.
	Th. lbs.	£'000.	Th. lbs.	£'000.
Cotton yarns not mercerised:—				
Bleached	242	2	826	16
Dyed	1,273	21		
Linen yarns (bleached, dyed, printed or finished)	17,881	171	24,608	258
Cotton piece-goods:—				
Bleached but not dyed or printed	<i>Th. lin. yds.</i> 50,875 <i>Th. sq. yds.</i> 55,845	206	54,566	233
	<i>Th. lin. yds.</i> 32,466 <i>Th. sq. yds.</i> 32,616		61,758	
Dyed but not printed... ..	<i>Th. lin. yds.</i> 32,466 <i>Th. sq. yds.</i> 32,616	198	23,400	217
Printed, whether dyed or not	<i>Th. lin. yds.</i> 7,812 <i>Th. sq. yds.</i> 8,662	93	9,088	106
	<i>Th. lin. yds.</i> 3,142 <i>Th. sq. yds.</i> 2,525	10	10,077	
Finished only	<i>Th. lin. yds.</i> 3,142 <i>Th. sq. yds.</i> 2,525	10	6,262	21
Linen piece-goods:—				
Bleached and finished	<i>Th. lin. yds.</i> 68,017 <i>Th. sq. yds.</i> 69,862	432	97,532	800
	<i>Th. lin. yds.</i> 33,734 <i>Th. sq. yds.</i> 28,821		98,078	
Dyed and printed	<i>Th. lin. yds.</i> 33,734 <i>Th. sq. yds.</i> 28,821	207	38,843	367
Other goods finished and work done ... ..	...	37	...	46
TOTAL ... ..	...	1,377	...	2,064

Separate branches of the Textile Finishing Trade.

The principal categories of textile finishing work in Great Britain and the value recorded on schedules for this trade at the 1930 Census in respect of each category were as follows:—

	£'000
(1) Bleaching of cotton piece-goods	3,650
(2) Dyeing of cotton piece-goods	5,319
(3) Printing of cotton piece-goods	6,344
(4) Bleaching, dyeing, etc., of cotton yarns	2,525
(5) Finishing woollen and worsted tissues, flannels and delaines	3,064

20,902

The above items account for £20·9 million out of a total of £29 million for the trade as a whole and thus represent about 72 per cent. of the total output of the Textile Finishing Trade. From an examination of the returns it is found that within each category are a number of firms specialising in particular processes. Details

relating to these groups of firms are given in the tables which follow, the figures relating to production in Great Britain only.

Kind of work.	Number of returns.	Gross output.	Net output.	Average number of persons employed.	Net output per person employed.
		£'000.	£'000.		£
<i>Cotton piece-goods:—</i>					
Bleaching	88	3,408	2,487	13,757	181
Dyeing	86	4,645	2,924	13,990	209
Printing... ..	50	7,279	4,254	21,434	198
<i>Cotton yarns:—</i>					
Bleaching, dyeing and finishing	105	2,414	1,301	9,439	138
<i>Woollen and worsted tissues, flannels and delaines:—</i>					
Stoving, dyeing, etc.	98	2,278	1,436	6,177	232

The following table indicates the degree to which the firms in the above groups were responsible for the particular classes of output to which they were allocated.

Kind of work.	Kind of work specified in first column.						Other work.	
	Quantity.	Value.	Proportion of similar work of all firms measured by			Value.	Proportion of firms' total work.	
			Th. lin. yds.	Th. sq. yds.	Value.			
	Th. lin. yds.	Th. sq. yds.	£'000.	Per cent.	Per cent.	Per cent.	£'000.	Per cent.
<i>Cotton piece-goods:—</i>								
Bleaching... ..	918,417	974,323	3,114	87·1	88·0	85·3	294	8·6
Dyeing	537,408	527,835	3,791	74·2	71·9	71·3	854	18·4
Printing	579,134	571,142	5,922	96·0	96·2	93·3	1,357	18·6
<i>Cotton yarns:—</i>								
Bleaching, dyeing, etc.	Thousand lbs. 111,192		2,226	Thousand lbs. 89·6		88·2	188	7·8
<i>Woollen and worsted tissues, flannels and delaines:—</i>								
Stoving, dyeing, etc.	Th. lin. yds. 126,855	Th. sq. yds. 187,013	2,225	*	*	72·6	53	2·3

* Not available, the record of quantities treated by all firms being incomplete.

Comparable figures for 1924 are not available, but the following table shows the figures ascertained for that year in respect of Great Britain and Northern Ireland, including the output of the small firms. The possible margin of error resulting from the inclusion of Northern Ireland is indicated.

Kind of work.	Kind of work specified in first column.		Other work.	
	Value.	Proportion of similar work of all firms.	Value.	Proportion of firms' total work.
<i>Cotton piece-goods</i> :—	£'000.	Per cent.	£'000.	Per cent.
Bleaching	5,599	83.0±4.3	322	5.4±0.3
Dyeing	7,811	86.7±2.9	1,399	15.2±0.4
Printing	9,051	95.8±1.2	1,098	10.8±0.1
<i>Cotton yarns</i> :—				
Bleaching, dyeing, etc. ...	3,300	81.6±0.5	247	7.0*
<i>Woollen and worsted tissues, flannels and delaines</i> :—				
Stoving, dyeing, etc. ...	4,109	93.0*	316	7.1*

* Margin of error negligible.

Production.

The following table shows the quantities (where available) of textile goods bleached, dyed, printed, etc. in 1930 and 1924, together with the total amounts recorded as received for the work done :—

Kind of goods finished.	Returned on schedules for all trades.				
	1930.			1924.	
	Quantity.	Value of work done.	Ent-ries.	Quantity.	Value of work done.
<i>Cotton and cotton goods.</i>	Th. lbs.	£'000	No.	Th. lbs.	£'000
Raw cotton... ..	4,482	74	18	2,621	43
Cotton waste	8,975	89	16	12,635	173
Raw cotton and cotton waste, not separately distinguished ...	473	5	1	—	—
<i>Cotton yarns</i> :—					
Bleached, not mercerised ...	45,040	305	76	179,698	3,979
Dyed, not mercerised ...	58,078	1,640	130		
Mercerised, whether bleached or not	15,132	420	45		
Not separately distinguished ...	5,925	161	7		
TOTAL—Cotton yarns ...	124,175	2,526	...	179,698	3,979
†Cotton piece-goods (excluding artificial silk mixtures) :—					
|| Bleached, but not dyed or printed ...	1,053,899	3,650	155	1,795,552	6,508
|| Dyed, but not printed ...	724,470			957,350	
|| Printed, whether dyed or nor ...	733,835	5,319	158	954,034	8,790
|| "Finished" only ...	603,008			790,839	
	593,942	6,344	68	823,777	9,345
	382,520			707,048	
	365,875	755	103	662,912	1,303
TOTAL—Cotton piece-goods ...	...	16,068	...	...	25,946

Kind of goods finished.	Returned on schedules for all trades.				
	1930.			1924.	
	Quantity.	Value of work done.	Ent-ries.	Quantity.	Value of work done.
	Th. lbs.	£'000	No.	Th. lbs.	£'000
Other and unclassified manufac-tures of cotton	—	—	—	...	266
TOTAL—Cotton and cotton goods ...	...	18,762	...	...	30,407
<i>Wool and wool goods.</i>					
Raw wool, including slubbing ...	34,337	585	46	38,311	760
Woollen and worsted yarns (pure or mixed), alpaca, mohair and kindred yarns	20,577	490	71	28,802	701
<i>Woollen and worsted tissues</i> :—					
Flannels and delaines :—					
Quantity stated { Th. lin. yds. 11,094 } 113	11,094	113	22	20,887	199
Quantity not stated { Th. sq. yds. 9,874 } 9	9,874			18,687	
Other tissues, pure or mixed :—					
Quantity stated { Th. lin. yds. 166,842 } 2,762	166,842	2,762	166	214,067	4,122
Quantity not stated { Th. sq. yds. 243,690 } 253	243,690			292,320	
Other and unclassified manufac-tures of wool ... ..	...	48	12	...	43
TOTAL—Wool and wool goods ...	...	4,260	...	...	5,843
<i>Silk and silk goods.</i>	Th. lbs.			Th. lbs.	
Thrown silk	412	72	21	438	89
Spun silk yarns	594	79	22	936	97
Silk piece-goods, pure or mixed ...	20,342 } 478	478	33	23,818	544
	19,741			22,727	
TOTAL—Silk and silk goods ...	...	629	...	...	730
<i>Artificial silk and artificial silk goods.</i>					
Artificial silk yarn, thread and straw	3,838	169	51	8,050	354
†Artificial silk piece-goods, pure or mixed, including all mixtures of artificial silk and cotton	176,103 } 2,029	2,029	110	46,631	408
	181,085			48,960	
Silk and artificial silk piece-goods, not separately distinguished ...	*	189	13	—	—
Other and unclassified manufac-tures of artificial silk	—	—	—	...	178
TOTAL—Artificial silk and artificial silk goods ... ..	...	2,387	...	...	940

Kind of goods finished.	Returned on schedules for all trades.				
	1930.			1924.	
	Quantity.	Value of work done.	Entries.	Quantity.	Value of work done.
<i>Linen yarns and piece-goods.</i>	Th. lbs.	£'000	No.	Th. lbs.	£'000
Linen yarns	20,089	131	23	26,348	224
Linen piece-goods, pure or mixed :					
Bleached and finished { <i>Th. lin. yds.</i>	9,104	122	14	11,256	226
{ <i>Th. sq. yds.</i>	9,753				
Dyed and printed { <i>Th. lin. yds.</i>	1,466	118	17	1,698	125
{ <i>Th. sq. yds.</i>	1,603				
TOTAL—Linen yarns and piece-goods ... ..	...	371	...	...	575
<i>Jute yarns and piece-goods.</i>					
Jute yarns	3,271	31	9	9,727	93
Jute piece-goods :—					
Quantity stated { <i>Th. lin. yds.</i>	24,761	67	15	16,786	99
{ <i>Th. sq. yds.</i>	28,542				
Quantity not stated	—	—	—	...	12
TOTAL—Jute yarns and piece-goods	...	127	...	...	204
<i>Hosiery and knitted fabrics.</i>	Th. doz. prs.			Th. doz. prs.	
Stockings and socks :—					
Wholly or mainly of cotton ...	2,646	143	28	2,068	142
Wholly or mainly of wool ...	9,258	497	43	13,330	1,014
Wholly or mainly of silk ...	1,374	141	17		
Wholly or mainly of artificial silk	5,023	292	37	‡	‡
Of silk and artificial silk not separately distinguished ...	60	8	1		
Unclassified	—	—	—	4,606	414
Undergarments and fancy hosiery :	Th. doz.			Th. doz.	
Wholly or mainly of cotton ...	104	9	9	260	22
Wholly or mainly of wool {	714	68	23	829	84
{ *	10	2			
Wholly or mainly of other textile materials	78	14	4	‡	‡
Unclassified	—	—	—	184	26
Knitted fabrics :—	Th. lbs.			Th. lbs.	
Wholly or mainly of cotton ...	8,493	148	31	1,592§	34§
Wholly or mainly of wool ...	9,812	261	36	5,966§	144§
Wholly or mainly of artificial silk	1,831	61	30	*	25§
Not separately distinguished ...	1,151	30	1	1,640§	43§
TOTAL—Hosiery and knitted fabrics	...	1,682	...	...	1,948

Kind of goods finished.	Returned on schedules for all trades.				
	1930.			1924.	
	Quantity.	Value of work done.	Entries.	Quantity.	Value of work done.
<i>Other and unclassified textile manufactures.</i>		£'000	No.		£'000
Raw materials and waste, not included elsewhere ... ..	...	1	3	...	2
Other and unclassified manufactures of other textiles ... ..	...	217	24	...	183
TOTAL—Other and unclassified textile manufactures ... ..	...	218	...	...	185
TOTAL VALUE OF FINISHING WORK DONE ... ..	...	28,436	...	...	40,832
<i>Other work done.</i>					
Cutting of pile fabrics, including velvets, velveteens, corduroys, moleskins and similar goods :—					
Of cotton :—					
Quantity stated { <i>Th. lin. yds.</i>	12,208	119	15	‡	‡
{ <i>Th. sq. yds.</i>	8,339				
Quantity not stated ... ..	...	34	8		
Of other textiles ... ..	...	12	10		
Engraving for calico printers ...	...	324	25	...	302
Shrinking and proofing cloth ...	...	67	5		
Polishing cotton thread, hemming and hemstitching ... ..	...	42	8	...	90
TOTAL VALUE OF WORK DONE ...	...	29,034	...	...	41,224

* Quantity not stated.

‡ Mixtures of artificial silk and cotton were included under artificial silk piece-goods at the 1930 Census, but at that of 1924 a large proportion of such mixtures was included under cotton piece-goods.

‡ No separate particulars obtained for 1924.

§ So far as recorded separately.

|| The value shown for bleached goods includes the value of mercerising and finishing if this work was done by the bleaching firms; the value for dyed goods includes the value of bleaching, mercerising and finishing if done by the dyers; and the value for printed goods includes the value of all process work incidental to the production of prints. Self-coloured linings are included with dyed goods and printed linings with printed goods.

The above table includes particulars of the finishing work returned on schedules for trades other than the Textile Finishing Trade. These particulars for 1930 were as follows :—

Kind of goods finished.	1930.		
	Quantity.	Value of work done.	Entries.
	Th. lbs.	£'000	No.
<i>Cotton and cotton goods.</i>			
Raw cotton	363	6	1
Cotton yarns—			
Dyed, not mercerised	35	1	2
TOTAL—Cotton and cotton goods ...	398	7	...
	Th. lbs.		
<i>Wool and wool goods.</i>			
Woollen, and worsted yarns (pure or mixed), alpaca, mohair and kindred yarns	617	18	11
Woollen and worsted tissues:—			
Flannels and delaines	*	9	1
Other tissues, pure or mixed:—			
Quantity stated { <i>Th. lin. yds.</i>	333	7	1
Quantity not stated { <i>Th. sq. yds.</i>	518		
TOTAL—Wool and wool goods ... ..	...	91	...
	Th. lbs.		
<i>Artificial silk and artificial silk goods.</i>			
Artificial silk yarn, thread and straw	46	2	1
Artificial silk piece-goods, pure or mixed, including all mixtures of artificial silk and cotton	1,728 1,777	20	2
Silk and artificial silk piece-goods, not separately distinguished ... ..	*			189	13
TOTAL—Artificial silk and artificial silk goods ... ..	...	211	...
<i>Linen yarns and piece-goods.</i>			
Linen piece-goods, pure or mixed:—			
Bleached and finished { <i>Th. lin. yds.</i>	1,320	13	2
... .. { <i>Th. sq. yds.</i>	1,414		
TOTAL—Linen yarns and piece-goods ...	...	13	...
<i>Jute yarns and piece-goods.</i>			
Jute yarns... ..	*	29	1
Jute piece-goods { <i>Th. lin. yds.</i>	370	1	1
... .. { <i>Th. sq. yds.</i>	426		
TOTAL—Jute yarns and piece-goods ...	...	30	...
Other and unclassified manufactures of other textiles ... ..	...	1	1
TOTAL VALUE OF FINISHING WORK DONE ...	...	353	...
<i>Other work done.</i>			
Shrinking and proofing cloth ... ..	...	6	1
TOTAL VALUE ... ..	...	359	...

* Quantity not stated.

Comparison between quantities of goods made and goods finished.—The relationship between the quantities of some important descriptions of goods handled by the Textile Finishing Trade and the total quantities of such goods made in 1930 and 1924 is shown in the table below. For the purpose of these comparisons, particulars of the output and finishing work done in Northern Ireland are included for both years. In comparing the figures, the considerations detailed in the paragraphs following the table should be noted.

Kind of goods.	Total make.	Goods subjected to finishing processes.		
		Quantity.	Proportion of total make of goods.	Proportion of corresponding quantity for 1924.
(1)	(2)	(3)	(4)	(5)
	Mill. lbs.	Mill. lbs.	Per cent.	Per cent.
Cotton yarns { 1930	1,047	126	12.0	68.1
... .. { 1924	1,395	185	13.3	100.0
Woollen and worsted yarns { 1930	386	21	5.4	70.0
... .. { 1924	555	30	5.4	100.0
Linen yarns { 1930	75	38	50.7	74.5
... .. { 1924	97	51	52.4	100.0
	Mill. sq. yds.	Mill. sq. yds.		
Cotton piece-goods { 1930	3,398	2,532	74.5	67.9
... .. { 1924	6,027	3,730	61.9	100.0
Woollen and worsted tissues (including flannels and delaines) { 1930	340	279*	82.1	87.2
... .. { 1924	466	320*	68.7	100.0
Linen piece-goods { 1930	151	110	73.7	72.4
... .. { 1924	204	152	74.6	100.0
Silk piece-goods (including mixtures) { 1930	15	20	128.0	86.8
... .. { 1924	14	23	164.5	100.0
Artificial silk piece-goods (including mixtures) ... 1930	178	181	101.7	...
	Thous. doz. prs.	Thous. doz. prs.		
Stockings and socks of cotton or wool... .. { 1930	15,301	11,904	77.8	77.3
... .. { 1924	20,123	15,398	76.5	100.0

* Partly estimated to make allowance for piece-goods returned by value only.

The total figures shown above as subjected to finishing processes (col. 3) may include imported goods, and this factor will affect the percentage figures given in cols. (4) and (5) in those categories where the quantities of goods imported in the unfinished condition were substantial, for example, in the case of silk and artificial silk goods. The retained imports of undyed silk piece-goods in 1930 amounted to 13 million square yards and in 1924

to 22½ million square yards. Large quantities of piece-goods of silk mixed with other materials, of artificial silk, and of wool were imported in both years, but the import statistics do not distinguish the unfinished goods separately. In the case of the remaining categories, the factor of imported goods is probably not of sufficient importance to affect materially the figures shown in col. (4).

The ratio of finished goods to the total make may be affected by changes in weight or other quantitative measurements due to the finishing processes. It is probable that woollen and worsted yarns lose weight in the process of finishing, and that woollen and worsted piece-goods undergo some shrinkage thereby rendering the square yardage of finished tissues less than that of the tissues in the loom state. In the case of piece-goods of cotton, it is known that certain classes are "split" after weaving, resulting in an addition to the linear yardage as recorded at the factories in which the goods were made. Estimates of the possible effect of "splitting" are made in the report on the Cotton Trade (page 52).

Additional to the aggregate of cotton piece-goods shown in the preceding table, 368 million square yards for 1930 and 672 million square yards for 1924 of piece-goods were returned as "finished only". Some of these goods will have been bleached, printed or dyed by other firms, and to the extent that this occurred there is duplication between the records for goods finished and for goods bleached, printed and dyed. The proportions shown in col. (4) of the table for cotton piece-goods may, therefore, be somewhat understated.

It will be observed that the proportion of goods which were subjected to finishing processes in the two years differed considerably in the case of cotton piece-goods, woollen and worsted tissues and silk piece-goods, but that the proportions for the remaining categories showed no marked change.

Comparisons of quantities of goods subjected to finishing processes.—The following table shows, for piece-goods of cotton and of linen, the total quantities finished according to the kind of process applied, the output for Northern Ireland being included in both years. Similar particulars are not available for other classes of materials.

Cotton piece-goods.

Particulars.	Bleached but not dyed or printed.	Dyed but not printed.	Printed whether dyed or not.	Total of preceding columns.
	Mill. sq. yds.	Mill. sq. yds.	Mill. sq. yds.	Mill. sq. yds.
<i>Quantities:—</i>				
1930	1,163	766	603	2,532
1924	1,915	981	834	3,730
	Per cent.	Per cent.	Per cent.	Per cent.
<i>Proportion of same year's total as in final column:—</i>				
1930	45.9	30.3	23.8	100.0
1924	51.3	26.3	22.4	100.0
<i>Proportion of corresponding quantity for 1924:—</i>				
1930	60.7	78.1	72.3	67.9
1924	100.0	100.0	100.0	100.0

Linen piece-goods.

Particulars.	Bleached and finished.	Dyed and printed.	Total of preceding columns.
	Mill. sq. yds.	Mill. sq. yds.	Mill. sq. yds.
<i>Quantities:—</i>			
1930	79.6	30.4	110.0
1924	113.7	38.3	152.0
	Per cent.	Per cent.	Per cent.
<i>Proportion of same year's total as in final column:—</i>			
1930	72.3	27.7	100.0
1924	74.8	25.2	100.0
<i>Proportion of corresponding quantity for 1924:—</i>			
1930	70.0	79.1	72.4
1924	100.0	100.0	100.0

The above table shows that in the case of cotton piece-goods a larger proportion was dyed or printed in 1930 than in 1924, and that the total quantity bleached, dyed or printed was 67.9 per cent. of that in 1924. Similarly with regard to linen piece-goods the proportion dyed or printed was higher than in 1924; the proportion of bleached and finished linen piece-goods in both years was much higher than that of the dyed and printed goods. The percentage decline in the quantity of cotton piece-goods finished was greater than that of linen piece-goods.

Charges.—The average amounts charged in 1930 and 1924 for finishing processes carried out on the chief classes of textile goods, as calculated from the Census returns, are shown, for Great Britain, in the following table. It should be borne in mind, however, that these comparisons do not necessarily relate to precisely similar

processes or goods in the two years. Changes in the amount of the more expensive kinds of work done (e.g., dyeing and printing) would be reflected in the charges made for the work.

Kind of work done.	Average charge.		1930 as a percentage of 1924.			
	1930.	1924.				
<i>Raw materials and yarns :—</i>	£ per th. lbs.	£ per th. lbs.	Per cent.			
Raw cotton (bleached, dyed, etc.)	16.43	16.53	99.4			
Cotton waste (bleached, dyed, etc.)	9.91	13.73	72.2			
Raw wool, including slubbing (bleached, dyed, etc.) ...	17.06	19.81	86.1			
Thrown silk (bleached, dyed, etc.)	174.07	203.05	85.7			
<i>Cotton yarns :—</i>						
Bleached, not mercerised	6.77	22.07	92.0			
Dyed, not mercerised ...	28.24					
Mercerised, whether bleached or not ...	27.75					
Woollen and worsted yarns (pure or mixed), alpaca, mohair and kindred yarns (stoved, dyed, finished, etc.)	23.67	24.27	97.5			
Linen yarns (bleached, dyed, printed and finished) ...	6.53	8.48	77.0			
Jute yarns (bleached, dyed, etc.)	9.47	9.59	98.7			
Spun silk yarns (bleached, dyed, etc.)	133.32	103.69	128.6			
Artificial silk yarns, thread and straw (bleached, dyed, etc.)	43.92	44.07	99.7			
<i>Piece-goods :—</i>	£ per th. lin. yds.	£ per th. sq. yds.	£ per th. lin. yds.	£ per th. sq. yds.	(a)	(b)
Of cotton (excluding artificial silk mixtures) :—						
Bleached, but not dyed or printed	3.46	3.33	3.62	3.52	95.6	94.6
Dyed, but not printed ...	7.34	7.21	9.21	9.22	79.7	78.2
Printed whether dyed or not	10.52	10.74	11.82	11.34	89.0	94.7
Finished only	1.97	2.09	1.84	1.96	107.1	106.6
Flannels and delaines (stoved, dyed, etc.)	10.37	11.46	9.53	10.65	108.8	107.6
Other woollen and worsted tissues, pure or mixed (stoved, dyed, etc.) ...	16.54	12.40	19.26	14.10	85.9	88.0
<i>Of linen, pure or mixed :—</i>						
Bleached and finished ...	14.06	13.13	20.08	14.44	70.0	90.9
Dyed and printed	80.38	73.51	73.62	61.18	109.2	120.2
Of jute (bleached, dyed, etc.)	2.70	2.34	5.90	4.42	45.8	52.9
Of silk, pure or mixed (bleached, dyed, etc.) ...	23.77	24.51	22.84	23.94	104.1	102.4
Of artificial silk, pure or mixed, including all mixtures of artificial silk and cotton (dyed, printed, etc.)	11.52	11.30	8.75	8.33	131.7	135.7

Kind of work done.	Average charge.		1930 as a percentage of 1924.
	1930.	1924.	
	£ per th. lbs.	£ per th. lbs.	Per cent.
<i>Knitted fabrics (bleached, dyed, etc.) :—</i>			
Wholly or mainly of cotton...	17.44	21.36	81.6
Wholly or mainly of wool ...	26.56	24.14	110.0
<i>Hosiery (bleached, dyed, finished, etc.) :—</i>	£ per th. doz. pairs.	£ per th. doz. pairs.	
<i>Stockings and socks :—</i>			
Wholly or mainly of cotton	54.04	68.63	78.7
Wholly or mainly of wool	53.62	76.06	70.5
<i>Undergarments and fancy hosiery (e.g., cardigans, fancy vests, jerseys, sweaters, etc.) :—</i>	£ per th. doz.	£ per th. doz.	
Wholly or mainly of cotton	89.64	86.44	103.7
Wholly or mainly of wool...	95.53	101.58	94.0

(a) Measured by linear yards.

(b) Measured by square yards.

The average amounts charged in Northern Ireland in 1930 and 1924 are given below :—

Kind of work done.	Average charge.				1930 as a percentage of 1924.	
	1930.		1924.		Per cent.	
	£ per th. lin. yds.	£ per th. sq. yds.	£ per th. lin. yds.	£ per th. sq. yds.	Meas-ured by lin. yds.	Meas-ured by sq. yds.
Linen yarns (bleached, dyed, etc.)	9.6		10.5		91.2	
<i>Cotton piece-goods :—</i>						
Bleached	4.0	3.7	4.3	3.8	94.8	97.9
Dyed	6.1	6.1	9.3	8.1	65.8	75.4
Printed	11.9	10.7	11.7	10.5	101.7	101.9
<i>Linen piece-goods :—</i>						
Bleached and finished	6.4	6.2	8.2	8.2	77.4	75.7
Dyed and printed ...	6.1	7.2	9.4	10.1	65.0	70.9

The variations between the two sets of figures for piece-goods included in the last column result from changes in the average widths of piece-goods on which finishing work was done. Considerable decreases were recorded for 1930 in the widths of cotton

piece-goods printed, of linen piece-goods, both bleached and finished, and dyed and printed, and of jute piece-goods bleached, dyed, etc., in Great Britain, while there was an increase in the average width of the woollen and worsted tissues stoved, dyed, etc. In the case of linen piece-goods finished in Northern Ireland, the change in width was only considerable in respect of the piece-goods dyed and printed. In other cases there are relatively small differences in the percentage changes in average charge between 1924 and 1930 according to whether measurement is per square yard or per linear yard.

Volume of production in 1930 and 1924.—The following table compares the volume of production of finishing work on textile goods in Great Britain in 1930 and 1924:—

Kind of work done.	Total production.			1930 as a percentage of 1924.
	1930.	1924.		
	As returned.	As returned.	At 1930 average charges.	
	£'000.	£'000.	£'000.	Per cent.
Raw materials and yarns (bleached, dyed, etc.):—				
Raw wool (including slubbing)...	585	760	654	89
Cotton yarns	2,526	3,979	3,661	69
Woollen and worsted yarns ...	490	701	684	72
Linen yarns	131	224	169	78
Artificial silk yarns, thread and straw	169	354	353	48
Other raw materials and yarns	380	497	464	82
TOTAL—Raw materials and yarns	4,281	6,515	5,985	72
Piece-goods:—				
Of cotton:—				
Bleached, but not dyed or printed	3,650	6,508	6,157	59
Dyed, but not printed	5,319	8,790	8,874	77
Printed, whether dyed or not	6,344	9,345	8,850	72
Finished only	755	1,303	1,389	54
Of wool (stoved, dyed, etc.):—				
Flannels and delaines... ..	122	199	214	57
Other tissues	3,015	4,140	3,643	83
Of linen:—				
Bleached and finished	122	226	205	60
Dyed and printed	118	125	150	79
Of jute (bleached and dyed) ...	67	111	59	114
Of silk, pure or mixed (bleached, dyed, etc.)	515	544	557	92
Of artificial silk, pure or mixed, including all mixtures of artificial silk and cotton (dyed, printed, etc.)	2,181	408	554	394
TOTAL—Piece-goods	22,208	31,699	28,652	78

Kind of work done.	Total production.			1930 as a percentage of 1924.
	1930.	1924.		
	As returned.	As returned.	At 1930 average charges.	
	£'000.	£'000.	£'000.	Per cent.
Other manufactured goods:—				
Knitted fabrics (bleached, dyed, etc.)	500	246	263	190
Hosiery (bleached, dyed, finished, etc.)	1,182	1,702	1,256	94
Other goods finished and work done	863	1,062	952*	91
TOTAL	29,034	41,224	37,108	78

* Based on revaluation of all preceding items.

Other output.—In addition to the output shown in the table on pages 188-191, firms that made their returns on schedules for the Textile Finishing Trade recorded in 1930 an output of other work done and goods made aggregating £327,000. These items are dealt with in the reports on those trades in which the principal output was recorded. The corresponding figure for 1924 was £198,000.

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)	7,004	68,999	4,348	19,809	11,352	88,808
Administrative, technical and clerical staff (as at 18th October)	484	8,420	362	2,385	846	10,805
TOTAL	7,488	77,419	4,710	22,194	12,198	99,613
1924.						
Operatives (average for the year)	8,128	77,222	4,411	20,931	12,539	98,153
Administrative, technical and clerical staff (as at 18th October)	615	8,074	410	2,170	1,025	10,244
TOTAL	8,743	85,296	4,821	23,101	13,564	108,397

Wages.—The available information as to the amount of wages paid in 1930 and 1924 is given on pages 18 and 19.

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.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
Reciprocating steam engines	148,949	18,908	167,857	150,323	30,095	180,418
Steam turbines	16,758	2,606	19,364	9,092	2,660	11,752
Internal combustion engines :—						
Gas	3,223	1,849	5,072	5,323	433	5,756
Petrol, kerosene, or other light oils	340	584	924	121	119	240
Heavy oils	1,131	154	1,285	766	107	873
Water engines	3,427	200	3,627	3,751	36	3,787
TOTAL	173,828	24,301	198,129	169,376	33,450	202,826
ELECTRIC GENERATORS.	Kw.	Kw.	Kw.	Kw.	Kw.	Kw.
Driven by						
Reciprocating steam engines	42,634	10,349	52,983	32,642	8,660	41,302
Steam turbines	12,859	1,505	14,364	5,218	1,393	6,611
Internal combustion engines :—						
Gas	1,151	985	2,136	1,629	347	1,976
Petrol, kerosene, or other light oils	38	243	281	34	77	111
Heavy oils	399	29	428	505	60	565
Water engines	1,060	95	1,155	1,081	17	1,098
TOTAL	58,141	13,206	71,347	41,109	10,554	51,663
ELECTRIC MOTORS.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
Driven by						
Electricity generated in same works	103,950	12,804	116,754	68,079	8,573	76,652
Electricity generated in other works under same ownership	3,109	—	3,109	—	—	—
Purchased electricity	91,767	7,305	99,072	57,147	7,280	64,427
TOTAL	198,826	20,109	218,935	125,226	15,853	141,079

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.
	Tons.	Tons.	Tons.
Coal	521,471	1,252,570*	47,264
Coke	2,481	9,920*	17
			B.T.U. (Kw.-hrs.) '000.
Electricity used for all purposes :—			
Generated in same works			78,241
Generated in other works under same ownership			1,357
Purchased			60,604
TOTAL—Electricity			140,202

* These figures were recorded by firms representing 93·7 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 work done (Gross output)	£'000	25,946	3,056	29,002
Cost of materials used	"	8,898	1,157	10,055
Paid for work given out to other firms	"	550	34	584
Net output	"	16,498	1,865	18,363
Average number of persons employed	No.	87,487	12,126	99,613
Net output per person employed ...	£	189	154	184
Mechanical power available :—				
Prime movers	H.P.	172,085	26,044	198,129
Electric motors driven by purchased electricity	"	86,420	12,652	99,072

II. Production.

Kind of goods finished and work done.	Unit.	England and Wales.	Scotland.	Great Britain.
I. Raw materials and yarns.				
(Quantities processed and value of work done).				
Raw cotton (bleached, dyed, etc.)	<i>Th. lbs.</i>	*	*	4,119
	£'000	*	*	68
Cotton waste (bleached, dyed, etc.)	<i>Th. lbs.</i>	8,975	—	8,975
	£'000	89	—	89
Raw cotton and cotton waste, not separately distinguished (bleached, dyed, etc.)	<i>Th. lbs.</i>	473	—	473
	£'000	5	—	5
Raw wool, including slubbing (bleached, dyed, etc.) ...	<i>Th. lbs.</i>	32,652	1,685	34,337
	£'000	547	38	585
Thrown silk (bleached, dyed, etc.)	<i>Th. lbs.</i>	412	—	412
	£'000	72	—	72
Other raw materials and waste (bleached, dyed, etc.)	£'000	*	*	1
Cotton yarns :—				
Bleached, not mercerised	<i>Th. lbs.</i>	32,263	12,777	45,040
	£'000	236	69	305
Dyed, not mercerised ...	<i>Th. lbs.</i>	49,338	8,705	58,043
	£'000	1,395	244	1,639
Mercerised, whether bleached or dyed	<i>Th. lbs.</i>	*	*	15,132
	£'000	*	*	420
Not separately distinguished	<i>Th. lbs.</i>	5,925	—	5,925
	£'000	161	—	161

Kind of goods finished and work done.	Unit.	England and Wales.	Scotland.	Great Britain.
(Quantities processed and value of work done).				
Raw materials and yarns—cont.				
Woollen and worsted yarns (pure or mixed), alpaca, mohair and kindred yarns (stoved, dyed, finished, etc.).	<i>Th. lbs.</i>	12,488	7,472	19,960
	£'000	238	234	472
Linen yarns (bleached, dyed, printed or finished) ...	<i>Th. lbs.</i>	*	*	20,089
	£'000	*	*	131
Jute yarns (bleached, dyed, etc.)	<i>Th. lbs.</i>	*	*	3,271
	£'000	*	*	31
Spun silk yarn (bleached, dyed, etc.)	<i>Th. lbs.</i>	*	*	594
	£'000	*	*	79
Artificial silk yarn, thread and straw (bleached, dyed, etc.)	<i>Th. lbs.</i>	3,594	198	3,792
	£'000	154	13	167
II.—Piece-goods.				
Cotton piece-goods (excluding artificial silk mixtures) :—				
†Bleached, but not dyed or printed	<i>Th. lin. yds.</i>	978,945	74,954	1,053,899
	<i>Th. sq. yds.</i>	1,026,018	81,126	1,107,144
	£'000	3,310	340	3,650
†Dyed, but not printed ...	<i>Th. lin. yds.</i>	674,495	49,975	724,470
	<i>Th. sq. yds.</i>	680,709	53,126	733,835
	£'000	5,034	285	5,319
†Printed, whether dyed or not	<i>Th. lin. yds.</i>	527,721	75,287	603,008
	<i>Th. sq. yds.</i>	518,728	75,214	593,942
	£'000	5,573	771	6,344
“Finished” only	<i>Th. lin. yds.</i>	362,208	20,312	382,520
	<i>Th. sq. yds.</i>	348,071	17,804	365,875
	£'000	680	75	755
Woollen and worsted tissues :—				
Flannels and delaines (stoved, dyed, finished, etc.) ...	<i>Th. lin. yds.</i>	11,094	—	11,094
	<i>Th. sq. yds.</i>	9,874	—	9,874
	£'000	113	—	113
Other tissues, pure or mixed (stoved, dyed, etc.)	<i>Th. lin. yds.</i>	140,813	25,696	166,509
	<i>Th. sq. yds.</i>	219,648	23,524	243,172
	£'000	2,656	99	2,755
	£'000	196	—	196
Linen piece-goods, pure or mixed :—				
Bleached and finished ...	<i>Th. lin. yds.</i>	1,058	6,726	7,784
	<i>Th. sq. yds.</i>	1,004	7,335	8,339
	£'000	9	100	109
Dyed and printed ...	<i>Th. lin. yds.</i>	*	*	1,466
	<i>Th. sq. yds.</i>	*	*	1,603
	£'000	*	*	118
Jute piece-goods (bleached, dyed, etc.)	<i>Th. lin. yds.</i>	914	23,477	24,391
	<i>Th. sq. yds.</i>	763	27,353	28,116
	£'000	12	54	66

Kind of goods finished and work done.	Unit.	England and Wales.	Scotland.	Great Britain.
<i>Piece-goods—cont.</i>				
(Quantities processed and value of work done).				
Silk piece-goods, pure or mixed (bleached, dyed, etc.) ...	<i>Th. lin. yds.</i>	*	*	20,342
	<i>Th. sq. yds.</i>	*	*	19,741
	£'000.	*	*	478
Artificial silk piece-goods, pure or mixed, including all mixtures of artificial silk and cotton (dyed, printed, etc.) ...	<i>Th. lin. yds.</i>	136,407	37,968	174,375
	<i>Th. sq. yds.</i>	140,432	38,876	179,308
	£'000.	1,607	402	2,009
III.— <i>Other manufactured goods.</i>				
Knitted fabrics (bleached, dyed, etc.) :—				
Wholly or mainly of cotton	<i>Th. lbs.</i>	8,493	—	8,493
	£'000.	148	—	148
Wholly or mainly of wool	<i>Th. lbs.</i>	*	*	9,812
	£'000.	*	*	261
Wholly or mainly of artificial silk ...	<i>Th. lbs.</i>	*	*	1,831
	£'000.	*	*	61
Not separately distinguished	<i>Th. lbs.</i>	1,151	—	1,151
	£'000.	30	—	30
Hosiery (bleached, dyed, finished, etc.) :—				
Stockings and socks :—				
Wholly or mainly of cotton	<i>Th. doz. prs.</i>	*	*	2,646
	£'000.	*	*	143
Wholly or mainly of wool	<i>Th. doz. prs.</i>	*	*	9,258
	£'000.	*	*	497
Wholly or mainly of silk	<i>Th. doz. prs.</i>	*	*	1,374
	£'000.	*	*	141
Wholly or mainly of artificial silk ...	<i>Th. doz. prs.</i>	5,023	—	5,023
	£'000.	292	—	292
Of silk and artificial silk, not separately distinguished	<i>Th. doz. prs.</i>	60	—	60
	£'000.	8	—	8
Undergarments and fancy hosiery † :—				
Wholly or mainly of cotton	<i>Th. doz.</i>	104	—	104
	£'000.	9	—	9
Wholly or mainly of wool—				
<i>Number stated</i> ...	<i>Th. doz.</i>	*	*	714
	£'000.	*	*	68
<i>Number not stated</i> ...	£'000.	*	*	10
Wholly or mainly of other textile materials ...	<i>Th. doz.</i>	*	*	78
	£'000.	*	*	14
Other and unclassified manufactures (bleached, dyed, etc.) :—				
Of wool ...	£'000.	*	*	48
Of other textiles ...	„	*	*	216
Total value of work done on raw materials, yarns and manufactured goods ...	£'000.	25,128	2,955	28,083

Kind of goods finished and work done.	Unit.	England and Wales.	Scotland.	Great Britain.
(Quantities processed and value of work done).				
IV.— <i>Other work done.</i>				
Cutting of pile fabrics, including velvets, velveteens, corduroys, moleskins, and similar goods :—				
Of cotton—	<i>Th. lin. yds.</i>	12,208	—	12,208
<i>Quantity stated</i> ...	<i>Th. sq. yds.</i>	8,339	—	8,339
	£'000.	119	—	119
<i>Quantity not stated</i> ...	£'000.	34§	—	34§
Of other textiles ...	£'000.	12	—	12
Engraving for calico printers ...	„	280	44	324
Shrinking and proofing cloth ...	„	61	—	61
Polishing cotton thread, hemming and hemstitching ...	„	19	23	42
Other work done ...	„	261	34	295
V.— <i>Goods made for sale.</i>				
Cotton piece-goods (unbleached, grey) ...	£'000.	22||	—	22||
Made-up canvas goods ...	„	10||	—	10||
TOTAL VALUE OF WORK DONE AND GOODS MADE (GROSS OUTPUT) ...	£'000.	25,946	3,056	29,002

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

† The value shown for bleached goods includes the value of mercerising and finishing if this work was done by the bleaching firms; the value for dyed goods includes the value of bleaching, mercerising and finishing if done by the dyers; and the value for printed goods includes the value of all process work incidental to the production of prints. Self-coloured linings are included with dyed goods and printed linings with printed goods.

‡ Including cardigans, fancy vests, jerseys, sweaters, etc.

§ Including £17,000 in respect of 1,683,000 linear yards.

|| Selling value of goods made.

III. Employment.

A. NUMBERS EMPLOYED IN WEEK ENDED 18TH OCTOBER, 1930.

Persons employed.	Males.		Females.		Males and females.	
	Under 18.	All ages.	Under 18.	All ages.	Under 18.	All ages.
<i>England and Wales :—</i>						
Operatives	6,272	61,350	3,457	15,941	9,727	77,291
Administrative, etc.*	431	7,489	304	1,981	735	9,470
TOTAL	6,703	68,839	3,761	17,922	10,462	86,761
<i>Scotland :—</i>						
Operatives	639	6,731	833	3,605	1,472	10,336
Administrative, etc.*	53	931	58	404	111	1,335
TOTAL	692	7,662	891	4,009	1,583	11,671
<i>Great Britain :—</i>						
Operatives	6,911	68,081	4,290	19,546	11,201	87,627
Administrative, etc.*	484	8,420	362	2,385	846	10,805
TOTAL	7,395	76,501	4,652	21,931	12,047	98,432

* Administrative, technical and clerical staff.

B. OPERATIVES EMPLOYED IN ONE WEEK IN EACH MONTH OF 1930.

Week ended	Males and females.			Week ended	Males and females.		
	England and Wales.	Scotland.	Great Britain.		England and Wales.	Scotland.	Great Britain.
Jan. 18th	80,838	11,615	92,453	July 19th	78,712	11,028	89,740
Feb. 15th	79,235	11,408	90,643	Aug. 16th	76,497	10,596	87,093
Mar. 15th	78,254	10,945	89,199	Sept. 13th	75,918	10,474	86,392
Apl. 12th	80,005	11,218	91,223	Oct. 18th	77,291	10,336	87,627
May 17th	79,700	11,049	90,749	Nov. 15th	76,089	10,236	86,325
June 21st	77,982	10,450	88,432	Dec. 13th	75,682	10,134	85,816
AVERAGE FOR THE 12 MONTHS					78,017	10,791	88,808

IV. Power.

PARTICULARS OF PRIME MOVERS, ELECTRIC GENERATORS AND ELECTRIC MOTORS.

Power equipment.	England and Wales.		Scotland.		Great Britain.	
	Ordinarily in use.	In reserve or idle.	Ordinarily in use.	In reserve or idle.	Ordinarily in use.	In reserve or idle.
PRIME MOVERS.						
Reciprocating steam engines	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
Steam turbines	132,262	15,942	16,687	2,966	148,949	18,908
Internal combustion engines :—						
Gas	2,281	779	942	1,070	3,223	1,849
Petrol, kerosene or other light oils...	320	519	20	65	340	584
Heavy oils	861	154	270	—	1,131	154
Water engines	2,478	200	949	—	3,427	200
TOTAL	152,571	19,514	21,257	4,787	173,828	24,301
TOTAL OF PRIME MOVERS INSTALLED	172,085		26,044		198,129	
ELECTRIC GENERATORS						
Driven by	Kw.	Kw.	Kw.	Kw.	Kw.	Kw.
Reciprocating steam engines	38,527	8,739	4,107	1,610	42,634	10,349
Steam turbines	11,134	1,005	1,725	500	12,859	1,505
Internal combustion engines :—						
Gas	451	245	700	740	1,151	985
Petrol, kerosene or other light oils	28	204	10	39	38	243
Heavy oils	229	29	170	—	399	29
Water engines	923	95	137	—	1,060	95
TOTAL	51,292	10,317	6,849	2,889	58,141	13,206
TOTAL OF ELECTRIC GENERATORS INSTALLED	61,609		9,738		71,347	

Power equipment.	England and Wales.		Scotland.		Great Britain.	
	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.
ELECTRIC MOTORS.						
Driven by						
Electricity generated in same works	89,495	8,459	14,455	4,345	103,950	12,804
Electricity generated in other works under same ownership	2,032	—	1,077	—	3,109	—
Purchased electricity	80,231	6,189	11,536	1,116	91,767	7,305
TOTAL	171,758	14,648	27,068	5,461	198,826	20,109
TOTAL OF ELECTRIC MOTORS INSTALLED	186,406		32,529		218,935	

V. Consumption of fuel.

Kind of fuel used.	England and Wales.	Scotland.	Great Britain.
	Tons.	Tons.	Tons.
Coal used for power*	461,182	60,289	521,471
Coke used for power*	2,481	—	2,481
	B.T.U. (Kw.-hrs.) '000.	B.T.U. (Kw.-hrs.) '000.	B.T.U. (Kw.-hrs.) '000.
Electricity used for all purposes :—			
Generated in same works	60,940	17,301	78,241
Generated in other works under same ownership	496	861	1,357
Purchased	53,478	7,126	60,604
TOTAL—Electricity	114,914	25,288	140,202

* In addition, 47,264 tons of coal (44,135 tons in England and Wales and 3,129 tons in Scotland) and 17 tons of coke (all in England and Wales) were recorded as used for power and for other purposes, not separately distinguished.