

THE WOOLLEN AND WORSTED TRADE

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THE WOOLLEN AND WORSTED 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 sorting, cleaning, blending, carding, combing, spinning and weaving of sheep's and lambs' wool, alpaca, vicuna, llama, mohair, cashmere, camels' hair and other hair, either on their own account or on commission for other firms. Firms engaged in the extraction of recovered wool are also included.

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:—

Particulars.	Unit.	1930.	1924.
Value of goods made and work done (Gross output)	£'000.	114,572	193,924
Cost of materials used	"	73,317	134,220
Paid for work given out to other firms	"	3,795	6,640
Net output	"	37,460	53,064
Average number of persons employed	No.	229,482	273,297
Net output per person employed	£	163	194
Mechanical power available:—			
Prime movers	H.P.	414,386	444,725
Electric motors driven by purchased electricity	"	97,876	75,710
Number of returns... ..	No.	1,336	1,634
Number of establishments	"	1,582	*

* Not available.

Deficiencies in 1930 aggregates.—The aggregate number of persons recorded at the 1930 Census by firms that employed not more than 10 persons on the average was 3,187, the corresponding figure for 1924 being 2,068; the number of these firms was 572 for 1930 and 396 for 1924. The higher figure recorded for 1930 was to some extent due to the greater response resulting from the invitation to small firms to claim exemption from the obligation to furnish detailed information. No information was received from 117 firms at the 1930 Census and from about 300 at that of 1924; these outstanding cases are known to have consisted in the main of small businesses.

The value of the output of the small firms in 1924 was £2,482,000 and particulars of the principal classes of goods included in this figure are given below.

Kind of goods.	Made for sale.	Made on commission.
	Value.	Amount received.
	£'000.	£'000.
Wool sorted, cleaned, etc.	634	3
Recovered wool and wool carbonised, dyed, etc....	329	63
Tops, noils and waste	743*	1
Yarns	50*	11*
Woollen tissues	104	10*
Worsted tissues	385	4
Damasks, tapestry, plushes, flannels and delaines and other piece-goods	57*	2
Carpets and rugs	21	—
Blankets, shawls, coverlets, etc.	20	2*
Other manufactures of wool	39*	2
Other work done on woollen goods	—	30
Other goods made (not of wool)	11	4
TOTAL	2,393*	132*

* These particulars include the value of goods made and work done in Northern Ireland for which separate particulars cannot be published owing to the risk of disclosure of information relating to individual firms. The total amount so included is £43,000 of which £37,000 is in respect of goods made for sale and £6,000 is in respect of goods made on commission.

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 ...	181	2,405	430	3,234	133
25-49 ...	234	5,762	1,410	8,555	165
50-99 ...	275	11,861	3,032	19,563	155
100-199 ...	323	25,777	7,337	45,944	160
200-299 ...	138	17,435	5,629	33,474	168
300-399 ...	65	9,937	3,786	22,104	171
400-499 ...	33	6,467	2,514	14,656	172
500-749 ...	42	10,815	4,109	25,161	163
750-999 ...	17	7,253	2,602	15,445	168
1,000-1,499 ...	20	9,766	3,798	24,722	154
1,500 and over ...	8	7,094	2,813	16,624	169
TOTAL ...	1,336	114,572	37,460	229,482	163

As already indicated, the number of firms reporting that not more than 10 persons were employed on the average amounted to 572

at the 1930 Census and to 396 at that of 1924. Adding these figures to those of the larger firms, the total number of separate returns made at the Census of 1930 was 1,908 and, for 1924, 2,080; the average number of persons employed by all firms that made returns was 232,669 in 1930, compared with 275,365 in 1924, but the former figure is subject to some qualification (see page 101).

Including the small firms it will be seen that in the year 1930 about one-half of the total number of persons employed in the wool textile industry was recorded by factories with 300 or more work-people; the number of returns made in respect of these factories was 185, or only 9 per cent. of the total number of separate returns received from all firms in the industry.

Regional distribution.—In the following table the main results for 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 62	4,677	2,009	9,945	202
	{ 1924 70	6,268	2,177	11,321	192
3 ...	{ 1930 1,032	88,752	27,184	168,256	162
	{ 1924 1,335	158,020	40,187	208,440	193
5 ...	{ 1930 26	4,445	1,768	11,055	160
	{ 1924 26	4,730	1,954	9,639	203
6 ...	{ 1930 67	5,923	2,208	13,418	165
	{ 1924 80	10,260	3,223	15,291	211
9 ...	{ 1930 13	2,709	1,134	5,567	204
	{ 1924 23	3,816	1,676	6,734	249
10	{ 1930 121	7,621	3,014	19,941	151
	{ 1924 125	10,498	3,741	20,821	180
1, 4, 7 & 8	{ 1930 15	445	143	1,300	110
	{ 1924 25	332	106	1,051	101
TOTAL	{ 1930 1,336	114,572	37,460	229,482	163
	{ 1924 1,684	193,924	53,064	273,297	194

The localisation of the wool textile industry underwent little change between 1924 and 1930, but, measured both by net output and by numbers employed, the share of the West Riding of Yorkshire (area 3) showed a slight decline, being about 76 per cent. in 1924 and 73 per cent. in 1930 of the recorded aggregates for the whole of Great Britain. A fall of 19 per cent. in aggregate numbers employed and of 35 per cent. in net output is shown for this area, comparing the 1930 results with those of 1924. The area second in importance, viz., the Rest of Scotland (area 10), recorded a falling off from the 1924 level of only about 4 per cent. in employment but of about 20 per cent. in net output. The figure

* For particulars see page xviii.

of net output per person employed in each year was lower in this area than in any other area for which separate particulars are given.

Northern Ireland.—The following table summarises the particulars recorded at the Census of Production taken by the Government of Northern Ireland for 1930. It should be borne in mind that this information relates to firms that employed an average of more than five persons. Corresponding particulars obtained in respect of all firms at the 1924 Census are also shown.

Particulars.	Unit.	1930.	1924.
Value of goods made and work done (Gross output)	£'000.	261	365
Cost of materials used	"	168	214
Paid for work given out to other firms	"	1	8
Net output	"	92	143
Average number of persons employed	No.	860	1,100
Net output per person employed	£	107	130
Mechanical power available:—			
Prime movers	H.P.	2,456	2,496
Electric motors driven by purchased electricity	"	568	40

The total make of yarns consisted of 1,085,000 lbs. of woollen yarns (carded only) in 1930 and 1,048,000 lbs. of similar yarns in 1924. The chief classes of goods made for sale in the two years were as follows:—

Kind of goods.	1930.			1924.		
	Quantity.	Weight.	Value.	Quantity.	Weight.	Value.
	Th. sq. yds.	Th. lbs.	£'000.	Th. sq. yds.	Th. lbs.	£'000.
Tissues of wool or of wool mixed with other materials, if known as "woollens":—						
Weighing 12 ozs. and over per sq. yd.	925	880	169	1,365	1,252	272
Weighing under 12 ozs. per sq. yd.	398	228	67	259	157	36
Blankets ... ..	...	11	2	...	6	1
Coverlets, travelling rugs and wrappers	57	...	11	47	...	13

Sub-divisions of the wool textile industry.—In the following tables the results of the 1930 Census are grouped in the two sections into which the industry is broadly divisible, viz., the woollen section and the worsted section. Certain firms which could not conveniently be allocated to either section (e.g., those engaged in the sorting and scouring of wool, or in manufacturing substantial quantities of artificial silk goods) are excluded; these firms, numbering 56, had a net output of £362,000 and employed 3,257 persons.

Woollen Section.

Sub-group.	No. of returns.	Gross output.	Net output.	Average number of persons employed.	Net output per person employed.
		£'000.	£'000.		£
1. Manufacture of recovered wool	54	1,250	327	1,839	178
2. Spinning only	51	2,875	795	4,074	195
3. Spinning and weaving	249	20,474	9,367	55,944	167
4. Weaving only	119	6,570	2,485	13,998	178
5. Manufacture of flannels and delaines	25	1,410	626	3,658	171
6. Manufacture of blankets, shawls, coverlets, etc.	38	2,706	1,106	6,174	179
7. Manufacture of carpets	58	9,554	4,077	24,540	166
8. Manufacture of other woollen goods	33	968	433	2,337	185
TOTAL	627	45,807	19,216	112,564	171

Worsted Section.

Sub-group.	No. of returns.	Gross output.	Net output.	Average number of persons employed.	Net output per person employed.
		£'000.	£'000.		£
1. Top making	64	3,672	1,579	9,019	175
2. Spinning only	239	28,323	8,162	54,217	155
3. Spinning and weaving	54	10,091	3,340	22,860	146
4. Weaving only	185	13,441	4,111	22,471	183
5. Commission work (other than combing)	111	908	690	5,094	135
TOTAL	653	56,435	17,882	113,661	157

Allocation to the section and sub-group was determined by the predominant kind of product and process carried on, and as some firms are concerned with both woollens and worsteds, the divisions cannot be completely isolated. Group 5 in the Worsted section (commission work) is made up largely of processes connected with the woollen side of the industry, but as more than one-half of the products worked on consisted of worsteds the figures for the whole of the group have been included in the Worsted section. If allowance is made for this factor the slight excess shown by the figures for the Worsted section in employment and in the number of returns received would probably be reversed, but the relationship between the two sections in respect of gross output, net output and net output per person employed would remain substantially unchanged.

There appears in any case to have been little difference between the numbers of employees engaged in the two sections of the industry in 1930, but the Woollen section showed a net output higher by about 7 per cent. in the aggregate and by about 9 per cent. in the average per employee. The predominance in the Woollen section of firms combining the spinning and weaving processes and, in the Worsted section, of the important spinning group will be observed from these tables.

None of the specified groups was responsible for the entire output of the goods with which it was specially identified, but 99 per cent. of the total output of recovered wool and practically the whole of that of carpets was recorded by Groups 1 and 7 (Woollen section), respectively; of the remainder the greatest degree of concentration was recorded by the worsted spinning group, which contributed nearly 92 per cent. of the total output of worsted and alpaca, etc., yarns.

Production.

Summary of production in 1930 and 1924.

The following table shows, in summary form, the quantities (where available) and values of the chief classes of products of the wool textile industry in 1930 and 1924, distinguishing those made for sale from those made on commission. The figures for both years relate to firms in Great Britain that employed an average of more than ten persons and are inclusive of the output of similar goods returned on schedules for other trades.

Kind of goods.	1930.		1924.	
	Quantity.	Value.	Quantity.	Value.
	Th. lbs.	£'000.	Th. lbs.	£'000.
<i>Made for sale.</i>				
Wool sorted, cleaned, etc. ...	33,770	1,907	77,132	7,489
Recovered wool (shoddy or mungo)	44,738	1,153	72,872	2,904
Waste	24,324	635	29,513	1,652
Tops	119,134	11,425	150,398	24,280
Noils	19,380	1,261	27,438	3,397
Yarns	211,927	31,904	262,616	55,110
	Th. sq. yds.		Th. sq. yds.	
Woollen tissues	183,504	24,520	250,065	39,209
Worsted tissues	108,503	19,784	149,004	29,080
Carpets and rugs	21,458	8,664	21,584	9,828
Flannels and delaines	15,721	1,301	25,255	2,548
Other manufactures of wool ...	...	6,743*	...	11,596
TOTAL VALUE OF WOOL AND MANUFACTURES THEREOF ...	...	109,297	...	187,093
Other goods made (other textiles, etc.) ... ..	...	2,147	...	1,969
TOTAL—GOODS MADE FOR SALE ...	...	111,444	...	189,062

Kind of goods.	1930.		1924.	
	Quantity.	Amount received.	Quantity.	Amount received.
<i>Made on commission.</i>	Th. lbs.	£'000.	Th. lbs.	£'000.
Wool sorted, cleaned, etc. ...	19,414	105	18,848	148
Tops	161,856	2,117	199,339	3,572
Noils	20,250		21,923	
Waste	9		5,091	
Yarns	19,819	508	26,734	700
	Th. sq. yds.		Th. sq. yds.	
Woollen tissues	6,123	120	7,512	136
Worsted tissues	15,825	285	13,702	232
Other manufactures of wool ...	...	117	...	112
Other goods made and work done	...	304	...	348
TOTAL AMOUNT RECEIVED	...	3,556	...	5,248
GRAND TOTAL ... ..	...	115,000	...	194,310

* Including £192,000 in respect of unclassified woollen and worsted tissues returned by value only.

More detailed particulars of the products of the industry are given in the following paragraphs.

Wool sorting, blending and cleaning.

Production.—The statement given below shows the quantity of wool sorted, cleaned, etc., in 1930 and 1924 for sale and on commission. Returns were received for both years from a number of merchants that bought wool and gave it out to be treated by firms working on commission. The latter firms also returned the quantity of wool sorted, cleaned, etc., by them and the amount received for this work. There is thus considerable duplication between the total quantities recorded by wool merchants (33,770 th.lbs.) and by commission firms (19,414 th.lbs.) but the maximum amount of duplication in values cannot have exceeded the sum of £105,000 which was received by the latter firms for their work. No processes of this kind were recorded on schedules for other trades in either year.

Wool sorted, blended or cleaned.	1930.			1924.	
	Quantity.	Value.	Entries.	Quantity.	Value.
	Th. lbs.	£'000.	No.	Th. lbs.	£'000.
<i>For sale.</i>					
Sheep's and lambs' wool ...	30,785	1,724	69	72,806	7,061
Alpaca, vicuna and llama (including camels' hair)	164	14	11	327	33
Mohair	2,821	169	13	3,999	395
TOTAL—Wool sorted, etc., for sale	33,770	1,907	...	77,132	7,489
<i>On commission.</i>					
Wool of all kinds sorted, etc.	19,414	105*	27	18,848	148*

* Amount received for work done.

These figures do not include the large quantities of wool that were sorted or otherwise treated by spinning and manufacturing firms and used by them in subsequent processes. The value of such wool was included in that of the firm's final products and was not returned separately. Further, about 15 per cent. of the total quantity of sorted or cleaned wool sold in 1924 was returned by firms employing not more than ten persons.

The table shows a quantity of wool sorted, cleaned, etc., and sold without further treatment 56.2 per cent. less in 1930 than in 1924, the decrease being relatively much greater in the case of sheep's and lambs' wool than in that of the other varieties shown separately. The quantity of wool treated by firms working on commission, however, was 3.0 per cent. greater in 1930 than in 1924.

Prices.—The following table gives the average selling values of the different classes of sorted, cleaned, etc., wool shown in the previous table, as calculated from the Census returns:—

Kind of wool.	1930.	1924.	1930 as a percentage of 1924.
	s. per lb.	s. per lb.	Per cent.
Sheep's and lambs' wool	1.12	1.94	57.7
Alpaca, vicuna and llama (including camels' hair)	1.66	2.03	81.8
Mohair	1.20	1.98	60.6
Wool of all kinds sorted, cleaned, etc., on commission (average charge)	d. per lb. 1.30	d. per lb. 1.88	69.1

In comparing the figures for 1930 with those for 1924 throughout this report, it is important to remember the influence on those figures of the relative prices of raw wool in the two years. In 1924 the price of raw wool was considerably higher than in 1930, and the tendency of prices was almost continuously upward during 1923 and 1924 and almost continuously downward during 1929 and 1930. For example, prices of a typical merino wool increased from 4s. 9d. per lb. in the middle of 1923 to 6s. 8d. per lb. at the end of 1924, while the price of the same description of wool in the middle of 1929 was 3s. 6d. per lb., decreasing to 1s. 10d. per lb. at the end of 1930. For a typical cross-bred wool, the increase in price from the middle of 1923 to the end of 1924 was from 1s. 3d. per lb. to 3s. 1½d. per lb., and the decrease in price from the middle of 1929 to the end of 1930 was from 1s. 10d. per lb. to 9d. per lb.

Products intermediate between wool and fabrics.

All firms that made returns on schedules for the Woollen and Worsted Trade were required to state the total quantity of intermediate products manufactured by them, whether these were subsequently used by the firms making them or were sold to, or made on commission for, other firms. The information furnished for 1930 and 1924 is summarised below, the particulars for each year being inclusive of similar products returned on schedules for other trades. The quantities so included are shown in the footnote to the table.

Kind of goods.	1930.		1924.
	Quantity.	Entries.	Quantity.
	Th. lbs.	No.	Th. lbs.
Recovered wool (shoddy or mungo)*	90,617	138	154,993
Tops or slubbing (first combed) :—			
Weight in oil :—			
Merino	98,159	60	75,608
Other	119,144	112	205,121
Not separately distinguished	4,171	1	—
Dry-combed	2,943	9	4,800
TOTAL—Tops	224,417	...	285,529
Noils	26,163	146	35,035
Yarns (single) :—			
Woollen (carded only)*	199,264	394	311,733
Worsted (combed)*	162,409	311	214,291
Alpaca	1,208	20	1,402
Mohair	7,035	28	12,996
Cashmere	219	17	444
Alpaca, mohair and cashmere, not separately distinguished	804	7	—
Camels' hair	816	30	1,599
Other hair	10,120	15	10,274
Unclassified (including mixed yarns)	3,029	16	
TOTAL—Yarns	384,904	...	552,739

* The quantities of intermediate products returned on schedules for other trades were as follows :—

	1930.		1924.
	Th. lbs.	Entries.	Th. lbs.
Recovered wool	2,919	5	1,827
Yarns :—			
Woollen	136	2	160
Worsted	8	1	—

Recovered wool (shoddy or mungo).

Production.—The total quantity of recovered wool produced in 1930 (90,617,000 lbs.) represented a decline of nearly 42 per cent. from the corresponding figure for 1924 (154,993,000 lbs.). The latter figure is exclusive of the output of firms that employed ten or fewer persons and of firms in Northern Ireland, which, taken together, amounted to 14,867,000 lbs., or nearly 9 per cent. of the total quantity produced (170,000,000 lbs.).

Production, exports and imports.—Owing to the absence of information regarding the quantities of recovered wool produced by small firms in 1930, no exact comparison of production with overseas trade can be made, but it is clear from the statement below that the quantity of recovered wool exported formed a considerably smaller proportion of the total output in 1930 than in 1924, and also that imports represented a negligible proportion of the total quantity produced in each year.

Exports and imports of recovered wool in the two years were as follows :—

	1930.	1924.
	Th. lbs.	Th. lbs.
Exports	4,161	13,714
Retained imports	363	3,341

Deliveries.—The quantity of recovered wool made in 1924 and 1930 for sale or on commission, as returned on schedules for all trades, was as follows :—

Recovered wool.	1930.			1924.	
	Quantity.	Value.	Entries.	Quantity.	Value.
	Th. lbs.	£'000.	No.	Th. lbs.	£'000.
Made for sale	44,738*	1,153*	70	72,872	2,904
Made on commission... ..	4,931	28†	25	6,924	35†

* Including 2,919,000 lbs., valued at £47,000, returned on 5 schedules for other trades.

† Amount received for work done.

Prices.—The average selling value of recovered wool in 1930, as calculated from the Census returns, was 6·19d. per lb. as compared with 9·56d. per lb. in 1924, showing a decline of 35·3 per cent. in the later year. With regard to recovered wool made on commission, the average charge was 1·36d. per lb. in 1930 and 1·21d. per lb. in 1924, an increase of 12·4 per cent.

Waste.

Production.—The following particulars were returned for the two years :—

		Quantity.		Value.	
		Th. lbs.	£'000.	Th. lbs.	£'000.
1930	...	24,324	635		
1924	...	29,513	1,652		

These figures represent waste *sold* (or added to stock) and do not include the quantities subsequently used for spinning, etc., in the producing factories. Considerable quantities are believed to be so used, but only partial records of the amounts were obtained at both Censuses.

Exports and imports.—The exports and retained imports of wool waste in 1930 and 1924 were as follows :—

Wool waste.	1930.		1924.	
	Quantity.	Value.	Quantity.	Value.
	Th. lbs.	£'000.	Th. lbs.	£'000.
Exports	11,707	756	19,723	1,880
Retained imports	2,816	104	4,239	302

The average value of exported waste (1·3 shillings per lb.) was considerably in excess of that produced by the industry (0·52 shillings per lb.). The difference is probably due to the fact that the bulk of the waste produced is sold to waste dealers, and its value is greatly enhanced by the grading and cleaning processes to which it is subjected by those firms prior to exportation. (See Flock and Rag Trade, page 268.)

Prices.—The average selling value of wool waste made in 1930 for sale was 0·52 shillings per lb. as compared with 1·12 shillings per lb. in 1924, showing a decline of 53·6 per cent.

Tops and noils.

Total production.—The total weight of *tops* made in 1930 and 1924 was returned as 224,417,000 lbs. and 285,529,000 lbs., respectively, a decrease of about 21 per cent. in the later year. These figures are confined to first combed tops and include output by worsted spinners and other firms for their own use. Firms were required in both years to distinguish their output of merino from that of "other" tops, but a proportion of the total was not so classified. If the unclassified output be apportioned between the two classes, the total make of merino tops in 1930 may be stated roughly as 103,000,000 lbs. and that of other tops as 121,000,000 lbs. The proportion of merino tops in the total was thus about 46 per cent. In 1924, the quantity of merino tops was returned as 77,275,000 lbs., or 27 per cent. of the total.

The total make of *noils* was recorded as 26,163,000 lbs. in 1930 and 35,035,000 lbs. in 1924. No production of tops and noils was shown on schedules for other trades in either year.

The quantities and proportions of tops and noils made by commission combers and by other firms are shown below :—

Tops and noils.	1930.		1924.*	
	Quantity.	Proportion.	Quantity.	Proportion.
	Th. lbs.	Per cent.	Th. lbs.	Per cent.
Tops made—				
By commission combers	148,859	66·3	199,360	69·8
By other firms	75,558	33·7	86,190	30·2
TOTAL—Tops	224,417	100·0	285,550	100·0
Noils made—				
By commission combers	16,366	62·6	22,164	63·2
By other firms	9,797	37·4	12,878	36·8
TOTAL—Noils	26,163	100·0	35,042	100·0

* Inclusive of the output of small firms.

It would appear from the above table that a smaller proportion of the combing was done by commission combers in 1930 than in 1924, but the change was not of great magnitude. The proportion of top to noil is shown below for both years :—

Proportion of top to noil.

Wool combed—	1930.		1924.	
	By commission combers	By other firms	By commission combers	By other firms
...	9·10	1	9·00	1
...	7·71	1	6·69	1

Production, exports and imports.—The following table shows, in relation to production, the quantities of tops and noils exported from the United Kingdom in 1930 and 1924 together with corresponding particulars of the quantities imported and retained :—

Particulars.	Tops.		Noils.	
	1930.	1924.	1930.	1924.
	Th. lbs.	Th. lbs.	Th. lbs.	Th. lbs.
Production	224,417	285,550*	26,163	35,042*
Exports	28,836†	41,129	12,837	20,758
Retained imports	2,080‡	4,694	1,043	2,029
Available for use in the United Kingdom	197,661	249,115	14,369	16,313
	Per cent.	Per cent.	Per cent.	Per cent.
Share of home market held by British-made products	98·9	98·1	92·7	87·6

* Inclusive of the output of firms that employed not more than ten persons.

† Merino, 2,158,000 lbs.; Other, 26,678,000 lbs.

‡ Merino, 444,000 lbs.; Other, 1,636,000 lbs.

Compared with the total weight of tops available for consumption in this country in 1930 (197,661,000 lbs.), the recorded weight of worsted yarn and yarn of alpaca, mohair, etc., amounted to 185,640,000 lbs., leaving a balance of about 12,000,000 lbs., or nearly 6 per cent. of the total quantity of tops available for use. The loss of weight occurring in the processes of conversion from tops to yarn is subject to a number of varying factors, but it may be assumed that, as a general average, the weight of the yarn spun would be about 9 or 10 per cent. less than the total weight of the tops used. On this assumption it appears that the whole of the available supply of tops in 1930 was used in yarn production in the course of the year and that some six to eight million lbs. of tops were drawn from stock during the course of the year.

Deliveries.—The quantities of tops and noils made for sale or on commission are shown below. Firms that gave out wool to be combed included the tops and noils made therefrom (if not used by them for further manufacture) as part of their output for sale and there is, in consequence, considerable duplication between the amounts returned as "made for sale" and those furnished by the commission combers.

Tops and noils.	1930.			1924.	
	Quantity.	Value.	Entries.	Quantity.	Value.
	Th. lbs.	£'000.	No.	Th. lbs.	£'000.
Made for sale:—					
Tops	119,134	11,425	80	150,398	24,280
Noils	19,380	1,261	132	27,438	3,397
Made on commission:—					
Tops	161,856	} 2,117*	87 {	199,339	} 3,572*
Noils	20,250			21,923	

* Amount received for work done.

Prices.—The average selling values of tops and noils in 1930 and 1924, as calculated from the Census returns, are shown below:—

Tops and noils made for sale.	1930.	1924.	1930 as a percentage of 1924.
	s. per lb.	s. per lb.	Per cent.
Tops	1·92	3·23	59·4
Noils	1·30	2·47	52·6

With regard to the production of tops on commission, firms were not required to state for either year the quantity of wool combed. Assuming that the comparatively small loss in the process of

combing was about the same in 1930 as in 1924, the relative charge for combing in the two years can, however, be arrived at from the aggregate particulars recorded for tops, noils and waste. The amount charged by firms combing on commission was 3·14d. *per lb. of tops produced* in 1930 as compared with 4·30d. *per lb. of tops produced* in 1924, a decrease of 27 per cent. The decrease in the average amount charged for combing was also about 27 per cent.

Yarns.

Total production.—The total quantity of yarns spun in 1930 was recorded as 384,904,000 lbs., of which 144,000 lbs. were returned on schedules for trades other than the Woollen and Worsted Trade. The corresponding total for 1924 was 552,739,000 lbs., of which 160,000 lbs. were returned on schedules for other trades. The decrease in the total make in 1930 as compared with 1924 was thus 30·4 per cent. This decrease affected all sections of the industry and was heaviest in the woollen section, as the following table shows:—

Kind of yarns.	Total production.		Decrease in 1930 as compared with 1924.
	1930.	1924.	
	Th. lbs.	Th. lbs.	Per cent.
Woollen yarns (carded)	199,264	311,733	36·1
Worsted yarns (combed)	162,409	214,291	24·2
Alpaca, mohair and other yarns*	23,231	26,715	13·0
TOTAL	384,904	552,739	30·4

* Including unclassified and mixed yarns (see page 78).

The above figures include yarns spun by firms for their own weaving purposes and are, to this extent, in excess of the quantities delivered shown in the table on page 85. Deducting the latter quantities from those shown above, the total amounts of yarn used in the weaving departments of the spinning firms were as follows:—

	1930.	1924.
	Th. lbs.	Th. lbs.
Woollen yarns	140,626	241,324
Worsted yarns	4,994	17,455
Alpaca, mohair and other yarns	7,538	4,610

These figures illustrate the difference in the organisation of the woollen and the worsted sections of the industry. In the former, supplies of yarn are provided chiefly by firms that carry on both spinning and weaving, over 70 per cent. of the total production of woollen yarn being spun by firms of this class in both years; in

the worsted section, less than 10 per cent. of the total output of worsted yarn was made by firms who were also engaged in the weaving process.

Production, exports and imports.—The following table shows, in relation to production, the quantities of yarns exported from the United Kingdom in 1930 and 1924, together with corresponding particulars of the quantities imported and retained. The production figures for both years include the output of firms in Northern Ireland and, for 1924, the output of the small firms in addition.

Kind of yarns.	Pro-duction.	Exports.	Re-tained imports.	Avail-able for use in the United Kingdom.	Share of home market held by British-made products.	
						Th. lbs.
Woollen yarns (carded)	1930	200,349	5,388	16,363	211,324	92·3
	1924	311,978	7,649	16,736	321,065	94·8
Worsted yarns (combed)	1930	162,409	31,919	2,257	132,747	98·3
	1924	214,358	44,606	834	170,586	99·5
Alpaca, mohair and cashmere yarns	1930	9,266	5,901	7	3,372	99·8
	1924	14,924	8,338	1	6,587	100·0
Other yarns	1930	13,965*	6,365	241	7,841	96·9
	1924	13,288*	3,651	16	9,653	99·8
All yarns	1930	385,989	49,573	18,868	355,284	94·7
	1924	554,548	64,244	17,587	507,891	96·5

* Including unclassified and mixed yarns.

It should be borne in mind, in considering the above table, that the figures of production in each year relate to single yarns only, whereas the export figures may include yarns doubled with cotton, artificial silk, etc.

The share of the export trade represented by the different descriptions of yarns in 1930 and 1924 was as follows:—

	1930.	1924.
	Per cent.	Per cent.
Woollen yarns (carded)	10·9	11·9
Worsted yarns (combed)	64·4	69·4
Alpaca, mohair and cashmere yarns	11·9	13·0
Other yarns	12·8	5·7
Total	100·0	100·0

The proportion of imported yarns used in the United Kingdom was slightly greater in 1930 than in 1924 for each of the classes of yarn shown in the table.

Deliveries.—The particulars recorded regarding the production of yarns for sale or on commission are summarised in the following table:—

Yarns (all wool or wool mixed with other materials).	1930.			1924.	
	Quantity.	Value.	Entries.	Quantity.	Value.
	Th. lbs.	£'000.	No.	Th. lbs.	£'000.
<i>Made for sale.</i>					
Woollen yarns (carded only)*	47,973	4,028	138	56,140	6,468
Worsted yarns (combed)†	148,413	25,710	279	185,221	44,516
Alpaca, mohair and cashmere	7,844	1,518	36	13,134	3,034
Other yarns	7,697	648	38	8,121	1,092
TOTAL—Yarns made for sale	211,927	31,904	...	262,616	55,110
		Amount rec'd.			Amount rec'd.
		£'000.			£'000.
<i>Made on commission.</i>					
Woollen yarns (carded only)...	10,665	203	78	14,269	300
Worsted yarns (combed)	9,002	303	65	11,615	383
Other yarns	152	2	4	850	17
TOTAL—Yarns made on commission	19,819	508	...	26,734	700

* Including, for 1930, 136,000 lbs., valued at £17,000 (2 entries), and, for 1924, 160,000 lbs., valued at £95,000, returned on schedules for other trades.

† Including 8,000 lbs., valued at £1,000 (1 entry), returned on schedules for other trades in 1930.

Prices.—The average selling values of the different classes of yarns in 1930 and 1924 are shown in the following table, together with the average charges for making yarns on commission:—

Kind of yarns.	1930.	1924.	1930 as a percentage of 1924.
	s. per lb.	s. per lb.	Per cent.
<i>Made for sale.</i>			
Woollen	1·68	2·30	73·0
Worsted	3·46	4·81	71·9
Alpaca, mohair and cashmere	3·87	4·62	83·8
Other yarns	1·68	2·69	62·5
<i>Made on commission.</i>			
Woollen	4·57	5·04	90·7
Worsted	8·07	7·91	102·0
Other yarns	3·76	4·86	77·4

The higher average charge in 1930 for spinning worsted yarns on commission may be due to the greater proportion of merino wool that was used in that year (see page 80).

Fabrics of wool.

Production.—The following table shows the production for sale and on commission of woollen fabrics of all kinds in 1930 and 1924, returned on schedules for all trades.

Fabrics of wool.	1930.				1924.		
	Quantity.	Weight.	Value.	Ent-ries.	Quantity.	Weight.	Value.
	Th. sq. yds.	Th. lbs.	£'000.	No.	Th. sq. yds.	Th. lbs.	£'000.
<i>Made for sale.</i>							
Woollen tissues, all wool :—							
Weight per sq. yard :—							
16 ozs. and over ...	11,193	13,445	3,268	164	13,402	16,676	4,625
12 ozs. and under 16 ozs. ...	12,658	10,736	2,184	162	16,422	13,812	4,096
8 ozs. and under 12 ozs. ...	30,781	19,553	5,335	186	33,774	20,804	7,650
Under 8 ozs. ...	6,141	2,612	815	98	10,273	3,894	1,480
TOTAL—Woollen tissues, all wool ...	60,773	46,346	11,602	...	73,871	55,186	17,851
Woollen tissues, of wool mixed with other materials, if known as "woollens" :—							
Weight per sq. yard :—							
16 ozs. and over ...	24,397	28,571	3,236	138	47,764	55,312	6,421
12 ozs. and under 16 ozs. ...	28,799	23,622	2,719	151	55,652	46,022	6,692
8 ozs. and under 12 ozs. ...	48,416	31,215	5,377	161	56,098	35,590	6,766
Under 8 ozs. ...	21,119	8,347	1,586	78	16,680	6,615	1,479
TOTAL—Woollen tissues, of wool mixed with other materials ...	122,731	91,755	12,918	...	176,194	143,539	21,358
TOTAL—Woollen tissues	183,504	138,101	24,520	...	250,065	198,725	39,209
Worsted tissues, all wool :—							
Linings, lastings, etc. ...	809	315	70	12	561	209	66
Other tissues weighing 12 ozs. and over per sq. yard ...	11,319	9,825	3,010	139	11,753	9,805	3,972
Other tissues weighing under 12 ozs. per sq. yard ...	57,984	31,428	10,413	235	73,347	36,854	16,259
TOTAL—Worsted tissues, all wool ...	70,112	41,568	13,493	...	85,661	46,868	20,297

Fabrics of wool.	1930.				1924.		
	Quantity.	Weight.	Value.	Ent-ries.	Quantity.	Weight.	Value.
	Th. sq. yds.	Th. lbs.	£'000.	No.	Th. sq. yds.	Th. lbs.	£'000.
Worsted tissues of wool mixed with other materials, if known as "worsteds" :—							
Linings, lastings, etc. ...	9,894	3,045	692	40	23,041	5,895	1,676
Other tissues weighing 12 ozs. and over per sq. yard ...	2,243	1,845	636	55	2,523	2,135	788
Other tissues weighing under 12 ozs. per sq. yard ...	26,254	13,184	4,963	158	37,779	16,248	6,319
TOTAL—Worsted tissues, of wool mixed with other materials ...	38,391	18,074	6,291	...	63,343	24,278	8,783
TOTAL—Worsted tissues	108,503	59,642	19,784	...	149,004	71,146	29,080
Unclassified woollen and worsted tissues, returned by value only ...	...	...	192	13	—	—	—
Tissues wholly or mainly of mohair, alpaca and cashmere, not being pile fabrics	7,279	1,864	588	34	13,561	3,739	1,407
Damasks, tapestry and other furniture stuffs ...	1,097	877	322	12	3,461	2,200	810
Wool and mohair plushes and other pile fabrics ...	4,439	5,284	1,241	22	6,321	6,898	2,164
Flannels and delaines ...	15,721	6,352	1,301	39	25,255	10,470	2,548
Carpets, carpeting and rugs of wool (including carpets and rugs on a wool or jute base) :—							
Printed tapestry and tapestry velvet carpets and rugs ...	6,273	...	1,274	10	6,693	...	1,617
Brussels and Wilton carpets and rugs, known as such	2,735	...	1,766	21	3,415	...	2,269
Axminster (including chenille Axminster) carpets and rugs, known as such ...	11,779	...	5,245	37	9,766	...	5,217
Carpets and rugs of wool (including copies of oriental carpets and rugs), not elsewhere specified ...	671	...	379	19	1,710	...	725
TOTAL—Carpets and rugs	21,458	...	8,664	...	21,584	...	9,828
Blankets ...	Th. prs. 2,981	21,497	2,595	83	Th. prs. 2,932	21,182	3,064
Shawls, other than knitted ...	Thous. 198	...	77	21	Thous. 883	...	320
Coverlets, travelling rugs and wrappers ...	367	...	210	38	996	...	714
	*	...	35	*	*	...	38
TOTAL VALUE — FABRICS MADE FOR SALE	...	...	59,529	...	...	...	89,182

Fabrics of wool.	1930.				1924.		
	Quantity.	Weight.	Amt. rec'd.	Entries.	Quantity.	Weight.	Amt. rec'd.
	Th. sq. yds.	Th. lbs.	£'000.	No.	Th. sq. yds.	Th. lbs.	£'000.
<i>Made on commission.</i>							
Woollen tissues, all wool:—							
Weight per sq. yd.:—							
16 ozs. and over ...	854	1,030	24	15	271	294	7
12 ozs. and under 16 ozs.	1,658†	1,237†	28†	15	749	620	13
8 ozs. and under 12 ozs.	1,462	866	32	25	1,510	899	23
Under 8 ozs. ...	1,605†	646†	23†	21	778	315	14
Woollen tissues, of wool mixed with other materials, if known as "woollens":—							
Weight per sq. yd.:—							
16 ozs. and over ...	159	244	4	6	1,317	1,540	27
12 ozs. and under 16 ozs.	‡	‡	‡	...	815	701	19
8 ozs. and under 12 ozs.	385	235	9	10	890	536	17
Under 8 ozs. ...	‡	‡	‡	...	1,182	410	16
TOTAL—Woollen tissues...	6,123	4,258	120	...	7,512	5,315	136
Worsted tissues, all wool:—							
Linings, lastings, etc. ...	461†	210†	4†	11	91	20	1
Other tissues weighing 12 ozs. and over per sq. yard ...	3,764†	3,385†	95†	39	2,247	1,881	49
Other tissues weighing under 12 ozs. per sq. yard ...	7,944	4,313	133	56	7,099	3,393	106
Worsted tissues, of wool mixed with other materials, if known as "worsted":—							
Linings, lastings, etc. ...	‡	‡	‡	...	1,016	371	16
Other tissues weighing 12 ozs. and over per sq. yard ...	‡	‡	‡	...	740	580	15
Other tissues weighing under 12 ozs. per sq. yard ...	3,656	2,464	53	31	2,509	1,265	45
TOTAL—Worsted tissues	15,825	10,372	285	...	13,702	7,510	232
Tissues wholly or mainly of mohair, alpaca and cashmere, not being pile fabrics	329	193	3	5	358	86	5
Flannels and delaines ...	Th. pairs.				Th. pairs.		
Blankets ...	113	874	23	12	66	617	23
TOTAL AMOUNT RECEIVED FOR MAKING FABRICS ON COMMISSION ...			431	...			396

* Quantity not stated.
† Including mixtures.
‡ Included with "all wool" tissues.

The following particulars of fabrics returned for 1930 on schedules for trades other than the Woollen and Worsted Trade are included in the above table.

Kind of goods.	Quantity.		Value.	Entries.
	Th. sq. yds.	Th. lbs.	£'000.	No.
<i>Made for sale.</i>				
Woollen tissues... ..	746	303	96	14
Worsted tissues	284	140	38	9
Unclassified tissues ... ..	...	...	35	4
Damasks, tapestry and other furniture stuffs	12	9	6	2
Carpets and rugs	2	...	1	1
Blankets	Th. pairs. 9	65	8	1
Coverlets, travelling rugs and wrappers ... ..	...	...	10*	1
Total value ... ..	...	...	194	...
<i>Made on commission.</i>				
Woollen tissues... ..	652	260	13	9
Worsted tissues... ..	327	183	4	4
Total amount received ... ..	...	...	17	...

* Quantity not stated.

Including estimates in respect of unclassified woollen and worsted tissues and of coverlets, travelling rugs and wrappers returned by value only, the following statement summarises the total production of woven fabrics in 1930 and 1924:—

Woven fabrics of wool.	1930.	1924.	1930 as a percentage of 1924.
	Mill. sq. yds.	Mill. sq. yds.	Per cent.
Woollen tissues, all wool and mixtures ...	190.4	257.6	73.9
Worsted tissues, all wool and mixtures ...	124.7	162.7	76.6
Tissues of mohair, etc., not pile fabrics ...	7.6	14.0	54.3
Flannels and delaines	15.7	25.3	62.1
Damasks, tapestry and other furniture stuffs	1.1	3.5	31.4
Wool and mohair plushes and other pile fabrics	4.4	6.3	69.8
Carpets and rugs	21.5	21.6	99.5
Blankets	Th. prs. 3,094	Th. prs. 2,998	103.2
Shawls	Thous. 198	Thous. 883	22.4
Coverlets, travelling rugs and wrappers ...	428	1,049	39.2

With the exception of blankets and of carpets and rugs, there was a substantial decline in production in 1930 as compared with 1924. The fabrics chiefly affected were shawls; coverlets, travelling rugs and wrappers; and damasks, tapestry and other furniture stuffs, in each of which the decrease was well over 50 per cent. The remaining fabrics showed decreases varying from 45·7 per cent. in the case of tissues of mohair, etc. to 23·4 per cent. in the case of worsted tissues.

While the above table does not take account of the production of small firms in Great Britain (see page 70) or of firms in Northern Ireland (see page 73) such production is not of sufficient magnitude to affect the comparisons in any material degree.

Average weight of fabrics.—The following table shows the average weight of the various classes of woven fabrics for which such information is available :—

Fabrics of wool.	Average weight.	
	1930.	1924.
	Ozs. per sq. yard.	Ozs. per sq. yard.
Woollen tissues, all wool :—		
16 ozs. and over	19·23	19·79
12 ozs. and under 16 ozs.	13·49	13·43
8 ozs. and under 12 ozs.	10·13	9·56
Under 8 ozs.	6·82	6·09
Woollen tissues, all wool	12·20	11·95
Woollen tissues, of wool mixed with other materials, if known as "woollens" :—		
16 ozs. and over	18·77	18·53
12 ozs. and under 16 ozs.	13·07	13·24
8 ozs. and under 12 ozs.	10·31	10·14
Under 8 ozs.	6·31	6·31
Woollen tissues, of wool mixed with other materials	11·96	13·03
TOTAL—Woollen tissues	12·01	12·69
Worsted tissues, all wool :—		
Linings, lastings, etc.	6·31	6·12
Other tissues of 12 ozs. and over	13·94	13·35
Other tissues under 12 ozs.	8·67	8·00
Worsted tissues, all wool	9·48	8·75

Fabrics of wool.	Average weight.	
	1930.	1924.
	Ozs. per sq. yard.	Ozs. per sq. yard.
Worsted tissues, of wool mixed with other materials, if known as "worsted" :—		
Linings, lastings, etc.	5·01	4·28
Other tissues of 12 ozs. and over	13·70	13·35
Other tissues under 12 ozs.	8·37	6·95
Worsted tissues, of wool mixed with other materials	7·53	6·13
TOTAL—Worsted tissues	9·01	7·73
Tissues wholly or mainly of mohair, alpaca and cashmere, not being pile fabrics	4·27	3·96
Damasks, tapestry and other furniture stuffs	12·79	11·00
Wool and mohair plushes and other pile fabrics	19·04	17·45
Flannels and delaines	6·48	6·65
Blankets	lbs. per pair. 7·23	lbs. per pair. 7·27

Woollen fabrics were, on the average, of lighter weight in 1930 than in 1924; although those of pure wool increased in average weight by 2 per cent. those of wool mixed with other materials showed a decrease of about 8 per cent. This decrease was due to an increase in the output of tissues weighing under 8 ozs. per square yard, while there was a substantial decline in the output of each of the other classes. On the other hand, worsted fabrics were on the whole heavier in 1930; worsted fabrics of mixed materials increased in average weight by nearly 23 per cent. per square yard, owing principally to the heavy fall in the output of linings and lastings and to the maintenance of the output of the fabrics weighing 12 ozs. and over per square yard.

Production, exports and imports.—The following table shows, in relation to production, the quantities of the principal classes of woollen and worsted fabrics exported from the United Kingdom in 1930 and 1924, together with the quantities imported and retained. As regards the 1930 figures of production, the deficiencies referred to on page 70 of this report should be borne in mind; the figures for 1924 include the output of firms in Northern Ireland as well as that of small firms in Great Britain. As it appears that, in recording the lighter kinds of fabrics, the same interpretation was not always placed upon the terms "woollens" and "worsted" by manufacturers on the one hand, and by exporters and importers on the other, woollen and worsted tissues weighing under 12 ozs. per square yard have been added together for purposes of comparison.

Fabrics of wool.	Production.	Exports.	Proportion of production exported.	Retained imports.	Available for use in the United Kingdom.	Share of home market held by British products.
	Th. sq. yds.	Th. sq. yds.	Per cent.	Th. sq. yds.	Th. sq. yds.	Per cent.
Woollen tissues, all wool:—						
16 ozs. and over ...	1930 12,047	2,818	23.4	718	9,947	92.8
	1924 14,009	6,296	44.9	563	8,276	93.2
12 ozs. and under	1930 14,316*	4,795	33.5	1,878	11,399	83.5
16 ozs. ...	1924 17,684	9,095	51.4	5,167	13,756	62.4
Woollen tissues, mixed:—						
16 ozs. and over ...	1930 24,556	4,238	17.3	461	20,779	97.8
	1924 49,452	12,710	25.7	135	36,877	99.6
12 ozs. and under	1930 28,799	4,258	14.8	1,662	26,203	93.7
16 ozs. ...	1924 56,829	14,083	24.8	951	43,697	97.8
Worsted tissues, all wool:—						
Linings, lastings, etc.	1930 1,270*	461	36.3	††	809	100.0
	1924 899	593	66.0	10	316	96.8
Other tissues, 12 ozs. and over ...	1930 15,083*	2,194	14.6	8	12,897	99.9
	1924 14,232	2,570	18.1	70	11,732	99.4
Worsted tissues, mixed:—						
Linings, lastings, etc.	1930 9,894	2,920	29.5	4	6,978	99.9
	1924 25,056	8,562	34.2	2	16,496	100.0
Other tissues, 12 ozs. and over ...	1930 2,243	1,045	46.6	15	1,213	98.8
	1924 3,329	2,171	65.2	13	1,171	98.9
Woollen and worsted tissues:—						
All wool, under 12 ozs.	1930 105,917*	46,344	43.8	19,248	78,821	75.6
	1924 142,488†	82,241	57.7	17,370	77,617	77.6
Mixtures, under 12 ozs.	1930 99,830	44,680	44.8	11,229	66,379	83.1
	1924 116,053	83,262	71.7	2,850	35,641	92.0
TOTAL — Woollen and worsted tissues ...	1930 316,478‡	113,753	35.9	35,223	237,948	85.2
	1924 440,031†	221,583	50.4	27,131	245,579	89.0
Tissues wholly or mainly of mohair, alpaca and cashmere, not being pile fabrics.	1930 7,608‡‡	1,697	22.3	2	5,913	100.0
	1924					
(Included with Woollen and Worsted tissues, all wool, under 12 ozs.)						
Damasks, tapestry and other furniture fabrics	1930 1,097	167	15.2	1,091	2,021	46.0
	1924 3,557	325	9.1	1,237	4,469	72.3
Wool and mohair plushes and other pile fabrics	1930 4,439	519	11.7	524	4,444	88.2
	1924 6,324	2,229	35.2	222	4,317	94.9
Flannels and delaines	1930 15,721	2,834	18.0	142	13,029	98.9
	1924 25,891	7,787	30.1	67	18,171	99.6
Blankets ...	Th. prs. 1930 3,096§	Th. prs. 596	19.3	Th. prs. 61	Th. prs. 2,561	97.6
	1924 3,017	2,146	71.1	80	951	91.6
Coverlets, travelling rugs and wrappers ...	Thous. 1930 447||	Thous. 181	40.5	Thous. 45	Thous. 311	85.5
	1924 1,160	276	23.8	15	899	98.3
Shawls, other than knitted	1930 198	125	63.1	210	283	25.8
	1924 892	451	50.6	119	560	78.7

Fabrics of wool.	Production.	Exports.	Proportion of production exported.	Retained imports.	Available for use in the United Kingdom.	Share of home market held by British products.
	Th. sq. yds.	Th. sq. yds.	Per cent.	Th. sq. yds.	Th. sq. yds.	Per cent.
Carpets, etc.:—						
Printed tapestry and tapestry velvet ...	1930 6,273	1,017	}	47	}	
	1924 6,693	1,859		91		
Brussels and Wilton	1930 2,735	500	}	2,176	}	
	1924 3,415	687		¶		
Axminster ...	1930 11,779	2,347	**	3,654	**	**
	1924 9,766	2,543		¶		
Other sorts ...	1930 671	763	}	1,997	}	
	1924 1,742	2,157		3,452		
TOTAL—Carpets, etc.	1930 21,458	4,627	21.6	7,874	24,705	68.0
	1924 21,616	7,246	33.5	3,543	17,913	80.2

* Including some mixtures made on commission.

† Including tissues of mohair, alpaca and cashmere which were not recorded separately in the Trade Returns in 1924.

‡ Including the output of Northern Ireland and an estimate in respect of piece-goods returned by value only.

§ Including estimated number of pairs made in Northern Ireland.

|| Including estimated number made in Northern Ireland and an estimate of goods returned by value only.

¶ Included with "other sorts."

** The proportion of production exported, the quantity available for use in the United Kingdom and the share of the home market held by British products have not been calculated for the various kinds of carpets shown, since the 1924 figures are not available in all cases and "other sorts" exported probably included items inadequately classified in both years.

†† Less than 500 sq. yds.

‡‡ Including a small quantity of flannels and delaines made on commission.

Prices.—The following table shows, for 1930 and 1924, the average selling values of fabrics of wool made for sale, as calculated from the Census returns. It should be borne in mind, however, that these comparisons do not take account of any changes that may have occurred since the earlier year in the quality, type or average weight of goods included under the specified descriptions.

Fabrics of wool.	1930.		1924.	1930 as a percentage of 1924.
	s. per sq. yd.	s. per sq. yd.			Per cent.
Woolen tissues, all wool:—				
16 ozs. and over	5.84	6.90	84.6	
12 ozs. and under 16 ozs.	3.45	4.99	69.1	
8 ozs. and under 12 ozs.	3.47	4.53	76.6	
Under 8 ozs.	2.65	2.88	92.0	
Woolen tissues, mixtures:—				
16 ozs. and over	2.65	2.69	98.5	
12 ozs. and under 16 ozs.	1.89	2.40	78.8	
8 ozs. and under 12 ozs.	2.22	2.41	92.1	
Under 8 ozs.	1.50	1.77	84.7	
Worsted tissues, all wool:—				
Linings, lastings, etc.	1.73	2.35	73.6	
Other tissues of 12 ozs. and over	5.32	6.76	78.7	
Other tissues under 12 ozs.	3.59	4.43	81.0	
Worsted tissues, mixtures:—				
Linings, lastings, etc.	1.40	1.45	96.5	
Other tissues of 12 ozs. and over	5.67	6.25	90.7	
Other tissues under 12 ozs.*	3.79	3.35	113.1	
Tissues of mohair, etc., not pile fabrics	1.62	2.08	77.9	
Damasks, tapestry and other furniture stuffs*	5.87	4.68	125.4	
Wool and mohair plushes and other pile fabrics	5.59	6.85	81.6	
Flannels and delaines	1.66	2.02	82.2	
Carpets, etc.:—				
Printed tapestry and tapestry velvet	4.06	4.83	84.1	
Brussels and Wilton	12.91	13.29	97.2	
Axminster	8.91	10.68	83.4	
Other sorts	11.30	8.48	133.3	
Blankets	s. per pair. 17.41	s. per pair. 20.90	83.3	
Shawls, other than knitted	s. each. 7.77	s. each. 7.36	105.6	
Coverlets, travelling rugs and wrappers	11.43	12.34	92.6	

* The average weight per square yard of these two classes of fabrics was appreciably greater in 1930 than in 1924.

With regard to weaving done on commission, the average charge per square yard for woollen tissues was 4.64d. in 1930 and 4.35d. in 1924, an increase of 6.7 per cent. in the later year, while that for worsted tissues was 4.35d. in 1930 and 4.06d. in 1924, an increase of 6.7 per cent.

Other manufactures of wool.

The following table shows the production for sale and on commission of manufactures of wool not dealt with in the previous sections of this report:—

Kind of goods.	1930.			1924.	
	Quantity.	Value.	Entries.	Quantity.	Value.
	Th. lbs.	£'000.	No.	Th. lbs.	£'000.
<i>Made for sale.</i>					
Woolen rags, carbonised, dyed, etc.	5,077	71	12	8,641	216
Wool flocks	4,664	42	73	120	5
	Th. sq. yds.				
Felts, not elsewhere specified {	4,690	341	12	...	1,175
Cloth and rag rugs and mats ...	*	504		...	186†
Other and unclassified manufactures of wool ... ..	...	162	23	...	1,497
TOTAL ... ..	...	363§	16	...	3,079
	Th. lbs.			Th. lbs.	
<i>Made on commission.</i>					
Woolen rags, carbonised, dyed, etc.	7,395	53‡	16	13,586	39‡
Other and unclassified manufactures of wool ... ..	...	10‡¶	1	...	10‡
TOTAL ... ..	...	63‡	...	...	49‡

* Quantity not stated.

† "Hearthrugs."

‡ Amount received for work done.

§ Including £147,000 recorded on 11 schedules for other trades.

¶ Including £5,000 recorded on 4 schedules for other trades.

Exports and retained imports of woollen manufactures not previously shown were as follows:—

Kind of goods.	1930.		1924.	
	Exports.	Retained imports.	Exports.	Retained imports.
	£'000.	£'000.	£'000.	£'000.
Smallwares	21	19	52	143
Wool felt, not elsewhere specified	105	135	741	486
(<i>Th. sq. yds.</i>)	(553)	(645)		
Manufactures of wool or worsted, not elsewhere specified (except flocks)	391	93		
TOTAL	517	247	793	629

Work done on Commission or for the Trade.

Details relating to the combing, spinning, weaving, etc., of goods on commission have been given in preceding sections of this report, but for convenience of reference the gross figures returned under these heads are brought together in the following statement which also includes particulars of commission work not included in previous tables:—

Kind of goods made or work done.	1930.		1924.	
	Quantity.	Amount received.	Quantity.	Amount received.
	Mill. lbs.	£'000.	Mill. lbs.	£'000.
Wool sorted, cleaned, etc. ...	19.4	105	18.8	148
Recovered wool ...	4.9	28	6.9	35
Tops ...	161.9	2,117	199.3	3,572
Noils ...	20.2		21.9	
Yarns ...	19.8	508	26.7	700
	Mill. sq. yds.		Mill. sq. yds.	
Woollen tissues ...	6.1	120	7.5	136
Worsted tissues ...	15.8	285	13.7	232
Other fabrics of wool ...	...	26	...	28
Other manufactures of wool ...	...	63	...	49
Goods not of wool ...	...	22	...	62
Other work done:—				
Re-combing ...	...	99	...	97
Burling and mending ...	...	37	...	62
Winding and warping ...	...	35	...	...
Other work done on wool goods ...	...	99	...	127
Work done on goods other than of wool ...	...	12	...	...
TOTAL ...	...	3,556	...	5,248

The above amounts are inclusive of work done on wool goods by firms in all other trades, apart from the Packing Trade (see page 303) and the Textile Finishing Trade (see page 183). Packing warehouses were not required to distinguish the value of work done on wool manufactures from that on manufactures of other textile materials and no allowance can, therefore, be made for any packing work which may have been given out from the wool textile industry to other firms in the year. The total value of the finishing processes carried out in the Textile Finishing Trade on wool and wool products (except hosiery) during 1930 was returned as £4,169,000 and if this sum is added to the amount shown in the above table in respect of wool and manufactures thereof (£3,522,000) an aggregate of £7,691,000 results as the total amount received by all firms working on commission (other than packing warehouses) in respect of wool and wool manufactures. The total sum paid for work given out by firms in the Woollen and

Worsted Trade amounted in 1930 to £3,795,000 and the difference between this sum and the total amount recorded (£7,691,000) by commission firms for work done on wool and wool manufactures represents work done for merchants and other firms outside the Woollen and Worsted Trade. This difference amounted to £3,896,000. It is, however, impossible to calculate how far this latter sum represented work done on goods produced in this country or on imported goods.

Volume of production in 1930 and 1924.

The following table compares the volume of production of woollen and worsted goods in 1930 and 1924:—

Kind of goods.	Total production.			1930 as a percentage of 1924.
	1930.	1924.		
	As returned.	As returned.	At 1930 average values.	
	£'000.	£'000.	£'000.	Per cent.
<i>Goods made for sale.</i>				
Wool sorted, cleaned, etc. ...	1,907	7,489	4,340	44
Recovered wool (shoddy or mungo) ...	1,153	2,904	1,879	61
Waste ...	635	1,652	766	83
Tops ...	11,425	24,280	14,422	79
Noils ...	1,261	3,397	1,787	71
Yarns ...	31,904	55,110	39,954	80
Woollen tissues ...	24,520	39,209	33,047	74
Worsted tissues ...	19,784	29,080	25,824	77
Other woven fabrics of wool* ...	6,561	11,065	9,558	69
Carpets and rugs ...	8,664	9,828	8,883	98
Other manufactures of wool ...	1,483	3,079	1,933	77
TOTAL—Goods made for sale	109,297	187,093	142,393	77
<i>Goods made on commission.</i>				
Wool sorted, cleaned, etc. ...	105	148	102	103
Recovered wool (shoddy or mungo) ...	28	35	39	72
Tops and noils ...	2,117	3,572	2,608	81
Yarns ...	508	700	676	75
Woollen tissues ...	120	136	145	83
Worsted tissues ...	285	232	248	115
Other manufactures of wool ...	89	77	126	70
TOTAL—Goods made on commission	3,252	4,900	3,944	82
TOTAL—Woollen and worsted manufactures ...	112,549	191,993	146,337	77

* Including unclassified tissues.

Other products.

In addition to the output shown in the previous sections of this report, the following goods were produced in 1930 and 1924 by firms that made their returns on schedules for the Woollen and Worsted Trade. These goods are dealt with in the reports on those trades in which the principal output was recorded.

Kind of goods.	1930.	1924.
	Value.	Value.
	£'000.	£'000.
<i>Made for sale:—</i>		
<i>Piece-goods:—</i>		
Of cotton	354	770
Of natural silk (including mixtures)	197	205
Of artificial silk (including mixtures)	1,304	844
<i>Other manufactures:—</i>		
Of cotton, including waste	158	47
Of natural silk	5	} 98
Of artificial silk, including waste	24	
Other textile manufactures	86	
Other goods made	19	5
TOTAL VALUE	2,147	1,969
	Amount received.	Amount received.
	£'000.	£'000.
<i>Made on commission:—</i>		
Cotton piece-goods	5	} 37
Other cotton manufactures	1	
Artificial silk piece-goods (including mixtures)	16	
TOTAL AMOUNT RECEIVED	22	62

Duplication in value of gross output.

The gross value of the output of the Woollen and Worsted Trade in 1930 was returned as £114,572,000, made up as follows:—

	£'000.
Goods made for sale	111,038
Amount received for work done on commission	3,534

The goods made for sale may be divided broadly between:—

(a) Goods that represent finished products, so far as the wool textile industry is concerned; these consist of fabrics, carpets and other manufactures, whether of wool or other materials, aggregating £62,705,000 in value; and

(b) Semi-manufactured products such as tops, yarns, etc., the gross value of which was £48,333,000. This group of products is duplicated in the value of the former, except in so far as the goods were exported, sold to other industries or to private consumers, or represented an excess in manufacturers' stocks at the end over those at the beginning of the year.

Exports of semi-manufactured products of wool in 1930 were as follows:—

	£'000.
Wool scoured, pulled, sliped, etc.	1,415
Recovered wool	168
Waste	756
Noils	1,290
Tops	2,828
Yarns	7,412
Total	13,869

All the above figures represent f.o.b. values, of which about 10 per cent. on the average may be assumed to represent the addition made by transport, etc., to the value of the goods at works. As regards the first two items (scoured wool and recovered wool), some uncertainty exists as to the proportion of the recorded production aggregates which is represented in the export figures, since the omission of the smaller firms resulted in some understatement of the year's output; but in view of the magnitude of the other items involved in this calculation this factor is not of great importance. In the case of waste, it is assumed that the whole of the recorded output (24,324,000 lbs.) was disposed of to waste dealers, and, after treatment by the latter, was partly exported and partly re-sold to the wool-spinning trade, while as regards yarns the existing data suggest that sales to the Hosiery Trade and to private consumers may have been in the neighbourhood of £8 million.

On these assumptions the total value of semi-manufactured products exported, sold to other trades or added to stock in 1930, amounted roughly to £20 million. The calculation in some cases rests on very imperfect data and the estimate made can only be regarded as correct within a margin of error of at least 5 per cent.

The amount of duplication involved in the sum of £48,333,000, shown in paragraph (b) above as the total recorded value of semi-manufactured goods made for sale, was thus about £28 million, and the figure of £83 million may be taken as representing, very approximately, the value free from duplication of the output of

goods made in 1930 by firms in the wool textile industry that employed more than 10 persons on the average. The addition to be made on account of the production of the smaller firms is uncertain but, so far as can be judged from the position in 1924, is unlikely to be greater than £2 million. An estimate, based on similar methods of calculation, for the year 1924 resulted in a total of £141 million for all firms in Great Britain and Northern Ireland, but as the gross output in Northern Ireland was only £365,000 the figures of approximately £85 million in 1930 and £141 million in 1924 are substantially comparable.

For the purpose of the above estimate, it has been assumed that, except for the amount of £414,000 received for weaving, the whole of the sum of £3,534,000 returned as received for work done on commission represented goods made for firms in the Woollen and Worsted Trade and is, therefore, duplicated in the selling value of the goods as returned by those firms.

Total value of output of wool products.

The above estimate of £83,000,000 relates only to the production of firms in Great Britain that made their returns on schedules for the Woollen and Worsted Trade, and in order to arrive at the total value of the output of all wool products in the United Kingdom it is necessary to make the following adjustments:—

1. The value of non-wool goods included in the estimate (£2,147,000) should be excluded and there should be added the value returned in respect of wool products on schedules for other trades (£406,000), the balance representing a net deduction of £1,741,000 from the total.

2. The value of wool products recorded by firms in Northern Ireland, amounting to £249,000, should be added.

3. Assuming that the fabrics made on commission by firms in the Woollen and Worsted Trade were manufactured to the order of merchants and are not, therefore, included in the selling values recorded for such goods in returns made by manufacturers, an addition should be made in respect of the fabrics for the weaving of which the sum of £431,000 was received. Valuing these fabrics at the same average rates as were returned for corresponding goods made for sale, the total addition to be made would amount to about £4,300,000.

4. Further additions are required in respect of processes, such as dyeing and finishing, which may be carried out on wool manufactures after leaving the hands of firms in the Woollen and Worsted Trade. As already shown, the minimum value of work done on wool products for merchants in 1930 was about £4,000,000.

These figures indicate that the value of all wool textile goods produced in the United Kingdom in 1930 by firms employing more than 10 persons was of the order of £90 million, but owing to the uncertainty of many of the elements composing this estimate, the figure should be regarded as only approximate. The omitted value caused by the exclusion of the small firms is unlikely to have exceeded £2 million. A similar estimate for the year 1924, covering all firms, resulted in an aggregate of approximately £148 million.

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)	10,929	87,547	22,629	128,706	33,558	216,253
Administrative, technical and clerical staff (as at 18th October)	610	10,357	375	2,872	985	13,229
TOTAL	11,539	97,904	23,004	131,578	34,543	229,482
1924.						
Operatives (average for the year)	15,385	105,839	29,959	153,331	45,344	259,170
Administrative, technical and clerical staff (as at 18th October)	710	11,268	405	2,859	1,115	14,127
TOTAL	16,095	117,107	30,364	156,190	46,459	273,297

The average number of operatives employed in 1930 is affected somewhat by the partial stoppage of work which occurred in the Wool Textile industry in the months of April, May and June of that year. The April figures were not appreciably affected, but a considerable reduction is shown by Table III B on page 112 to have taken place in May and a smaller reduction in June. Omitting the figures for May and June the average number of operatives employed would be increased by 3,746 to 219,999, thus reducing the percentage decline in the operative staff between 1924 and 1930 from 16.6 per cent., as shown by the table, to 15.1 per cent.

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.
	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
PRIME MOVERS.						
Reciprocating steam engines	322,097	19,307	341,404	341,168	47,545	388,713
Steam turbines	42,108	6,940	49,048	25,318	6,587	31,905
Internal combustion engines :—						
Gas	8,680	1,478	10,158	11,914	1,895	13,809
Petrol, kerosene, or other light oils	152	318	470	167	287	454
Heavy oils	3,170	399	3,569	1,092	—	1,092
Water engines	9,126	611	9,737	7,874	878	8,752
TOTAL	385,333	29,053	414,386	387,533	57,192	444,725
	Kw.	Kw.	Kw.	Kw.	Kw.	Kw.
ELECTRIC GENERATORS.						
Driven by						
Reciprocating steam engines	50,677	6,977	57,654	41,866	6,224	48,090
Steam turbines	27,260	4,999	32,259	15,998	4,454	20,452
Internal combustion engines :—						
Gas	2,305	561	2,866	1,932	188	2,120
Petrol, kerosene, or other light oils	54	127	181	36	153	189
Heavy oils	725	109	834	256	...	256
Water engines	1,848	178	2,026	1,784	59	1,843
TOTAL	82,869	12,951	95,820	61,872	11,078	72,950
	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
ELECTRIC MOTORS.						
Driven by "						
Electricity generated in same works	86,552	6,253	92,805	60,020	5,905	65,925
Purchased electricity	88,881	8,995	97,876	67,782	7,928	75,710
TOTAL	175,433	15,248	190,681	127,802	13,833	141,635

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	906,578	558,069*	44,331
Coke	4,317	14,987*	1
			B.T.U. (Kw.-hrs.) '000.
			Electricity used for all purposes :—
			Generated in same works
			Purchased
			TOTAL—Electricity
			180,366

* These figures were recorded by firms representing 86.2 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 goods made and work done (Gross output)	£'000.	104,242	10,330	114,572
Cost of materials used	"	67,247	6,070	73,317
Paid for work given out to other firms	"	3,683	112	3,795
Net output	"	33,312	4,148	37,460
Average number of persons employed	No.	203,974	25,508	229,482
Net output per person employed	£	163	163	163
Mechanical power available :—				
Prime movers	H.P.	387,481	26,905	414,386
Electric motors driven by purchased electricity	"	86,651	11,225	97,876

II. Production.

A.—TOTAL MAKE OF TOPS, NOILS, YARNS, ETC., AS RETURNED ON SCHEDULES FOR THE WOOLLEN AND WORSTED TRADE.

Products.	England and Wales.	Scotland.	Great Britain.
	Th. lbs.	Th. lbs.	Th. lbs.
Tops or slubbing (first combed) :—			
Weight in oil—			
Merino	*	*	98,159
Other	115,781	3,363	119,144
Not separately distinguished	4,171	—	4,171
Dry combed	*	*	2,943
TOTAL—Tops	220,073	4,344	224,417
Noils	25,682	481	26,163
Woollen rags pulled (shoddy or mungo)	*	*	87,698
Yarns (single) :—			
Woollen (carded only)	178,481	20,647	199,128
Worsted (combed)	157,485	4,916	162,401
Alpaca	1,196	12	1,208
Mohair	*	*	7,035
Cashmere	24	195	219
Alpaca, mohair and cashmere, not separately distinguished	804	—	804
Camels' hair	754	62	816
Other hair	10,120	—	10,120
Other and unclassified yarns	2,995	34	3,029
TOTAL—Yarns	*	*	384,760

* Owing to the possible disclosure of information relating to individual firms, figures can only be given for Great Britain as a whole.

B.—OUTPUT SOLD OR ADDED TO STOCK AND WORK DONE.

Kind of goods made.	Unit.	England and Wales.	Scotland.	Great Britain.
GOODS MADE FOR SALE.		(Quantities of goods and net selling value).		
Wool, sorted, blended, or scoured, but not otherwise treated :—				
Sheep's and lambs wool	Th. lbs. £'000.	30,399 1,682	386 42	30,785 1,724
Alpaca, vicuna and llama (including camels' hair)	Th. lbs. £'000.	* *	* *	164 14
Mohair (Angora goats' hair)	Th. lbs. £'000.	* *	* *	2,821 169
TOTAL—Wool, sorted, blended, etc.	Th. lbs. £'000.	* *	* *	33,770 1,907
Woollen rags, carbonised, dyed, etc.	Th. lbs. £'000.	5,077 71	— —	5,077 71
Recovered wool (shoddy or mungo)	Th. lbs. £'000.	* *	* *	41,819 1,106
Tops	Th. lbs. £'000.	* *	* *	119,134 11,425
Noils	Th. lbs. £'000.	* *	* *	19,380 1,261
Yarns (all wool or wool mixed with other materials) :—				
Woollen (carded only)	Th. lbs. £'000.	36,601 2,758	11,236 1,253	47,837 4,011
Worsted (combed)	Th. lbs. £'000.	143,949 24,597	4,456 1,112	148,405 25,709
Alpaca, mohair and cashmere	Th. lbs. £'000.	7,710 1,429	134 89	7,844 1,518
Other hair or wool	Th. lbs. £'000.	7,654 636	43 12	7,697 648
TOTAL—Yarns	Th. lbs. £'000.	195,914 29,420	15,869 2,466	211,783 31,886
Tissues :—				
Woollen tissues, all wool :—				
Weighing 16 ozs. and over to the square yard	Th. sq. yds. Th. lbs. £'000.	9,475 11,593 2,620	1,718 1,852 648	11,193 13,445 3,268
Weighing 12 and under 16 ozs. to the square yard	Th. sq. yds. Th. lbs. £'000.	10,663 9,038 1,546	1,986 1,690 634	12,649 10,728 2,180
Weighing 8 and under 12 ozs. to the square yard	Th. sq. yds. Th. lbs. £'000.	23,093 14,565 3,603	7,662 4,977 1,727	30,755 19,542 5,330
Weighing under 8 ozs. to the square yard	Th. sq. yds. Th. lbs. £'000.	5,231 2,231 612	664 283 160	5,895 2,514 772
TOTAL—Woollen tissues, all wool	Th. sq. yds. Th. lbs. £'000.	48,462 37,427 8,381	12,030 8,802 3,169	60,492 46,229 11,550

Kind of goods made.	Unit.	England and Wales.	Scotland.	Great Britain.
GOODS MADE FOR SALE—cont.				
Woollen tissues of wool mixed with other materials, if known as "woollens":—				
Weighing 16 ozs. and over to the square yard	<i>Th. sq. yds.</i>	24,339	58	24,397
	<i>Th. lbs.</i>	28,499	72	28,571
	£'000.	3,210	26	3,236
Weighing 12 and under 16 ozs. to the square yard... ..	<i>Th. sq. yds.</i>	28,366	433	28,799
	<i>Th. lbs.</i>	23,263	359	23,622
	£'000.	2,592	127	2,719
Weighing 8 and under 12 ozs. to the square yard... ..	<i>Th. sq. yds.</i>	47,318	1,098	48,416
	<i>Th. lbs.</i>	30,481	734	31,215
	£'000.	5,058	319	5,377
Weighing under 8 ozs. to the square yard	<i>Th. sq. yds.</i>	*	*	20,654
	<i>Th. lbs.</i>	*	*	8,161
	£'000.	*	*	1,542
TOTAL—Woollen tissues of wool mixed with other materials	<i>Th. sq. yds.</i>	*	*	122,266
	<i>Th. lbs.</i>	*	*	91,569
	£'000.	*	*	12,874
TOTAL—Woollen tissues	<i>Th. sq. yds.</i>	*	*	182,758
	<i>Th. lbs.</i>	*	*	137,798
	£'000.	*	*	24,424
Worsted tissues, all wool:—				
Linings, lastings, etc.	<i>Th. sq. yds.</i>	809	—	809
	<i>Th. lbs.</i>	315	—	315
	£'000.	70	—	70
Other tissues weighing 12 ozs. and over to the square yard	<i>Th. sq. yds.</i>	11,186	103	11,289
	<i>Th. lbs.</i>	9,708	87	9,795
	£'000.	2,965	37	3,002
Other tissues weighing under 12 ozs. to the square yard.	<i>Th. sq. yds.</i>	57,469	515	57,984
	<i>Th. lbs.</i>	31,129	299	31,428
	£'000.	10,250	163	10,413
TOTAL—Worsted tissues, all wool	<i>Th. sq. yds.</i>	69,464	618	70,082
	<i>Th. lbs.</i>	41,152	386	41,538
	£'000.	13,285	200	13,485
Worsted tissues of wool mixed with other materials, if known as "worsted":—				
Linings, lastings, etc.	<i>Th. sq. yds.</i>	9,824	—	9,824
	<i>Th. lbs.</i>	3,019	—	3,019
	£'000.	686	—	686
Other tissues weighing 12 ozs. and over to the square yard	<i>Th. sq. yds.</i>	2,201	42	2,243
	<i>Th. lbs.</i>	1,812	33	1,845
	£'000.	619	17	636
Other tissues weighing under 12 ozs. to the square yard	<i>Th. sq. yds.</i>	25,749	321	26,070
	<i>Th. lbs.</i>	12,933	167	13,100
	£'000.	4,851	88	4,939
TOTAL—Worsted tissues of wool mixed with other materials...	<i>Th. sq. yds.</i>	37,774	363	38,137
	<i>Th. lbs.</i>	17,764	200	17,964
	£'000.	6,156	105	6,261
TOTAL—Worsted tissues	<i>Th. sq. yds.</i>	107,238	981	108,219
	<i>Th. lbs.</i>	58,916	586	59,502
	£'000.	19,441	305	19,746

Kind of goods made.	Unit.	England and Wales.	Scotland.	Great Britain.	
GOODS MADE FOR SALE—cont.					
Unclassified woollen and worsted tissues returned by value only ...					
	£'000.	157	—	157	
Tissues wholly or mainly of mohair, alpaca and cashmere, not being pile fabrics	<i>Th. sq. yds.</i>	7,233	46	7,279	
	<i>Th. lbs.</i>	1,829	34	1,864	
	£'000.	561	27	588	
Damasks, tapestry and other furniture stuffs	<i>Th. sq. yds.</i>	*	*	1,085	
	<i>Th. lbs.</i>	*	*	868	
	£'000.	*	*	316	
Wool and mohair plushes and other pile fabrics	<i>Th. sq. yds.</i>	*	*	4,439	
	<i>Th. lbs.</i>	*	*	5,284	
	£'000.	*	*	1,241	
Flannels and delaines	<i>Th. sq. yds.</i>	*	*	15,721	
	<i>Th. lbs.</i>	*	*	6,352	
	£'000.	*	*	1,301	
Carpets, carpeting and rugs of wool (including carpets and rugs on a wool or jute base):—					
Printed tapestry and tapestry velvet carpets and rugs	<i>Th. sq. yds.</i>	4,047	2,224	6,271	
	£'000.	790	483	1,273	
	<i>Th. sq. yds.</i>	2,231	504	2,735	
Brussels and Wilton carpets and rugs, known as such	£'000.	1,407	359	1,766	
	<i>Th. sq. yds.</i>	8,307	3,472	11,779	
	£'000.	3,491	1,754	5,245	
Axminster (including chenille Axminster) carpets and rugs, known as such	<i>Th. sq. yds.</i>	505	166	671	
	£'000.	311	68	379	
	<i>Th. sq. yds.</i>	15,090	6,366	21,456	
TOTAL—Carpets and rugs	£'000.	5,999	2,664	8,663	
	Other manufactures of wool:—				
	Blankets	<i>Th. prs.</i>	2,741	231	2,972
<i>Th. lbs.</i>		19,951	1,481	21,432	
£'000.		2,369	218	2,587	
Shawls, other than knitted	<i>Thous.</i>	133	65	198	
	£'000.	53	24	77	
	Coverlets, travelling rugs and wrappers	<i>Thous.</i>	237†	130§	367
£'000.		127	83	210	
£'000.		25	†	25	
Wool felt, not elsewhere specified	<i>Th. sq. yds.</i>	4,690	—	4,690	
	£'000.	341	—	341	
	£'000.	504	—	504	
Cloth and rag rugs and mats	£'000.	*	*	162	
	<i>Th. lbs.</i>	4,650	15	4,665	
	£'000.	42	†	42	
Wool flocks	<i>Th. lbs.</i>	23,107	1,217	24,324	
	£'000.	613	22	635	
	Wool waste	£'000.	191	25	216
Other manufactures of wool or worsted					
£'000.		191	25	216	

Kind of goods made.	Unit.	England and Wales.	Scotland.	Great Britain.
GOODS MADE FOR SALE— <i>cont.</i>		(Quantities of goods and net selling value).		
Manufactures not of wool :—				
Manufactures of cotton :—				
Piece-goods, unbleached, grey...	<i>Th. lin. yds.</i>	2,585	195	2,780
	<i>Th. sq. yds.</i>	2,897	171	3,068
	<i>Th. lbs.</i>	1,269	44	1,313
Piece-goods, other ...	<i>£'000.</i>	233	10	243
	<i>Th. sq. yds.</i>	944	88	1,032
	<i>Th. lbs.</i>	406	40	446
Other cotton goods, including waste ...	<i>£'000.</i>	105	6	111
	<i>£'000.</i>	157	1	158
Manufactures of silk :—				
Piece-goods wholly of silk and of silk mixed with other material; if known as "silks"	<i>Th. sq. yds.</i>	*	*	1,073
	<i>£'000.</i>	*	*	197
Other manufactures of natural silk	<i>£'000.</i>	5	—	5
Manufactures of artificial silk :—				
Piece-goods :—				
Pile fabrics ...	<i>Th. sq. yds.</i>	114	—	114
	<i>Th. lbs.</i>	107	—	107
	<i>£'000.</i>	30	—	30
Other sorts :—				
Wholly of artificial silk ...	<i>Th. sq. yds.</i>	5,582	—	5,582
	<i>Th. lbs.</i>	1,010	—	1,010
	<i>£'000.</i>	561	—	561
Of artificial silk mixed with other materials ...	<i>Th. sq. yds.</i>	*	*	8,913
	<i>Th. lbs.</i>	*	*	1,894
Other manufactures of artificial silk, including waste ...	<i>£'000.</i>	*	*	713
	<i>£'000.</i>	24	—	24
Manufactures of other textiles ...	<i>£'000.</i>	84	2	86
Other goods made ...	<i>£'000.</i>	19	†	19
TOTAL VALUE OF GOODS MADE FOR SALE ...	<i>£'000.</i>	100,775	10,263	111,038
WORK DONE ON COMMISSION.		(Quantities of goods and amount received for work done).		
Wool, rags, tops, etc. :—				
Wool of all kinds, sorted, blended or scoured, but not otherwise treated ...	<i>Th. lbs.</i>	*	*	19,414
	<i>£'000.</i>	*	*	105
Woollen rags, carbonized, dyed, etc. ...	<i>Th. lbs.</i>	*	*	7,395
	<i>£'000.</i>	*	*	53
Wool combed ...	<i>£'000.</i>	*	*	2,117
	<i>Th. lbs.</i>	*	*	161,856
Tops ...	<i>Th. lbs.</i>	*	*	20,250
Noils ...	<i>Th. lbs.</i>	*	*	9
Waste ...	<i>Th. lbs.</i>	*	*	9
Recovered wool (shoddy or mungo) ...	<i>Th. lbs.</i>	*	*	4,931
	<i>£'000.</i>	*	*	28

Kind of goods made.	Unit.	England and Wales.	Scotland.	Great Britain.
WORK DONE ON COMMISSION— <i>cont.</i>		(Quantities of goods and amount received for work done).		
Yarns (all wool or wool mixed with other materials) :—				
Woollen (carded only) ...	<i>Th. lbs.</i>	10,036	629	10,665
	<i>£'000.</i>	177	26	203
Worsted (combed) ...	<i>Th. lbs.</i>	*	*	9,002
	<i>£'000.</i>	*	*	303
Other yarns ...	<i>Th. lbs.</i>	152	—	152
	<i>£'000.</i>	2	—	2
TOTAL—Yarns ...	<i>Th. lbs.</i>	*	*	19,819
	<i>£'000.</i>	*	*	508
Tissues :—				
Woollen tissues, all wool—				
Weighing 16 ozs. and over to the square yard ...	<i>Th. sq. yds.</i>	*	*	851
	<i>Th. lbs.</i>	*	*	1,021
	<i>£'000.</i>	*	*	23
Weighing 12 ozs. and under 16 ozs. to the square yard||...	<i>Th. sq. yds.</i>	1,650	8	1,658
	<i>Th. lbs.</i>	1,230	7	1,237
	<i>£'000.</i>	27	1	28
Weighing 8 ozs. and under 12 ozs. to the square yard ...	<i>Th. sq. yds.</i>	1,428	26	1,454
	<i>Th. lbs.</i>	845	16	861
	<i>£'000.</i>	30	2	32
Weighing under 8 ozs. to the square yard|| ...	<i>Th. sq. yds.</i>	*	*	964
	<i>Th. lbs.</i>	*	*	401
	<i>£'000.</i>	*	*	11
Woollen tissues of wool mixed with other materials, if known as "woollens"—				
Weighing 16 ozs. and over to the square yard ...	<i>Th. sq. yds.</i>	*	*	159
	<i>Th. lbs.</i>	*	*	243
	<i>£'000.</i>	*	*	4
Weighing 12 ozs. and under 16 ozs. to the square yard ...	—	¶	¶	¶
	<i>Th. sq. yds.</i>	385	—	385
Weighing 8 ozs. and under 12 ozs. to the square yard ...	<i>Th. lbs.</i>	235	—	235
	<i>£'000.</i>	9	—	9
Weighing under 8 ozs. to the square yard ...	—	¶	¶	¶
	<i>Th. sq. yds.</i>	5,398	73	5,471
TOTAL—Woollen tissues ...	<i>Th. lbs.</i>	3,955	43	3,998
	<i>£'000.</i>	103	4	107

Kind of goods made.	Unit.	England and Wales.	Scotland.	Great Britain.
WORK DONE ON COMMISSION— <i>cont.</i>				
(Quantities of goods and amount received for work done).				
Worsted tissues, all wool :—				
Linings, lastings, etc. || ... ..	<i>Th. sq. yds.</i>	448	—	448
	<i>Th. lbs.</i>	202	—	202
	£'000.	4	—	4
Other tissues weighing 12 ozs. and over to the square yard || ... ..	<i>Th. sq. yds.</i>	*	*	3,753
	<i>Th. lbs.</i>	*	*	3,375
	£'000.	*	*	95
Other tissues weighing under 12 ozs. to the square yard	<i>Th. sq. yds.</i>	*	*	7,641
	<i>Th. lbs.</i>	*	*	4,148
	£'000.	*	*	129
Worsted tissues of wool mixed with other materials, if known as "worsted" :—				
Linings, lastings, etc.	—	¶	¶	¶
	Other tissues weighing 12 ozs. and over to the square yard			
Other tissues weighing under 12 ozs. to the square yard	<i>Th. sq. yds.</i>	*	*	3,656
	<i>Th. lbs.</i>	*	*	2,464
	£'000.	*	*	53
TOTAL—Worsted tissues	<i>Th. sq. yds.</i>	15,451	47	15,498
	<i>Th. lbs.</i>	10,158	31	10,189
	£'000.	278	3	281
Tissues wholly or mainly of mohair, alpaca and cashmere, not being pile fabrics	<i>Th. sq. yds.</i>	329	—	329
	<i>Th. lbs.</i>	193	—	193
	£'000.	3	—	3
Flannels and delaines	<i>Th. sq. yds.</i>	329	—	329
	<i>Th. lbs.</i>	193	—	193
	£'000.	3	—	3
Blankets	<i>Th. prs.</i>	104	9	113
	<i>Th. lbs.</i>	801	73	874
	£'000.	19	4	23
Manufactures of wool, not specified above	£'000.	5	†	5
Other work done on woollen goods:—				
Re-combing	£'000.	99	—	99
Winding and warping	£'000.	31	4	35
Burling and mending	£'000.	37	†	37
Dyeing and finishing	£'000.	72	19	91
Other work done on woollen goods	£'000.	7	1	8

Kind of goods made.	Unit.	England and Wales.	Scotland.	Great Britain.
WORK DONE ON COMMISSION— <i>cont.</i>				
(Quantities of goods and amount received for work done).				
Manufactures not of wool :—				
Cotton piece-goods	<i>Th. lin. yds.</i>	606	—	606
	<i>Th. sq. yds.</i>	691	—	691
	<i>Th. lbs.</i>	155	—	155
Other cotton manufactures	£'000.	5	—	5
	£'000.	1	—	1
Tissues of artificial silk :—				
Wholly of artificial silk	<i>Th. sq. yds.</i>	320	—	320
	<i>Th. lbs.</i>	62	—	62
	£'000.	5	—	5
Of artificial silk mixed with other materials	<i>Th. sq. yds.</i>	607	—	607
	<i>Th. lbs.</i>	132	—	132
Work done on goods other than of wool	£'000.	11	—	11
	£'000.	12	—	12
TOTAL AMOUNT RECEIVED FOR WORK DONE ON COMMISSION...	£'000.	3,467	67	3,534
TOTAL VALUE OF GOODS MADE AND WORK DONE (GROSS OUTPUT)	£'000.	104,242	10,330	114,572

* See footnote to Table IIIA.

† Less than £500.

‡ Of which 196,000 represented 556,000 square yards.

§ Of which 72,000 represented 221,000 square yards.

|| Including mixtures.

¶ Included with "all wool" tissues.

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	10,032	80,063	19,029	115,222	29,061	195,285
Administrative, etc.*	532	9,232	286	2,322	818	11,554
TOTAL	10,564	89,295	19,315	117,544	29,879	206,839
<i>Scotland</i> :—						
Operatives	1,026	8,519	3,868	15,006	4,894	23,525
Administrative, etc.*	78	1,125	89	550	167	1,675
TOTAL	1,104	9,644	3,957	15,556	5,061	25,200
<i>Great Britain</i> :—						
Operatives	11,058	88,582	22,897	130,228	33,955	218,810
Administrative, etc.*	610	10,357	375	2,872	985	13,229
TOTAL	11,668	98,939	23,272	133,100	34,940	232,039

* 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	201,887	24,250	226,137	July 19th	193,467	23,718	217,185
Feb. 15th	200,299	24,061	224,360	Aug. 16th	192,414	23,114	215,528
Mar. 15th	200,566	24,240	224,806	Sept. 13th	193,007	23,514	216,521
Apl. 12th	196,420	24,288	220,708	Oct. 18th	195,285	23,525	218,810
May 17th	159,539	24,323	183,862	Nov. 15th	195,214	23,598	218,812
June 21st	187,119	24,057	211,176	Dec. 13th	193,828	23,298	217,126
AVERAGE FOR THE 12 MONTHS ...					192,420	23,833	216,253

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.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
Reciprocating steam engines	307,993	17,424	14,104	1,883	322,097	19,307
Steam turbines	38,181	6,940	3,927	—	42,108	6,940
Internal combustion engines :—						
Gas	6,672	1,050	2,008	428	8,680	1,478
Petrol, kerosene or other light oils... ..	108	120	44	198	152	318
Heavy oils	2,273	399	897	—	3,170	399
Water engines	5,790	531	3,336	80	9,126	611
TOTAL	361,017	26,464	24,316	2,589	385,333	29,053
TOTAL OF PRIME MOVERS INSTALLED	387,481		26,905		414,386	
ELECTRIC GENERATORS	Kw.	Kw.	Kw.	Kw.	Kw.	Kw.
Driven by						
Reciprocating steam engines	46,826	6,384	3,851	593	50,677	6,977
Steam turbines	24,375	4,999	2,885	—	27,260	4,999
Internal combustion engines :—						
Gas	1,567	126	738	435	2,305	561
Petrol, kerosene or other light oils	28	27	26	100	54	127
Heavy oils	654	109	71	—	725	109
Water engines	778	114	1,070	64	1,848	178
TOTAL	74,228	11,759	8,641	1,192	82,869	12,951
TOTAL OF ELECTRIC GENERATORS INSTALLED	85,987		9,833		95,820	
ELECTRIC MOTORS.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
Driven by						
Electricity generated in same works	76,167	5,694	10,385	559	86,552	6,253
Purchased electricity	79,151	7,500	9,730	1,495	88,881	8,995
TOTAL	155,318	13,194	20,115	2,054	175,433	15,248
TOTAL OF ELECTRIC MOTORS INSTALLED	168,512		22,169		190,681	

V. Consumption of fuel.

Kind of fuel used.	England and Wales.	Scotland.	Great Britain.
		Tons.	Tons.
Coal used for power*	865,438	41,140	906,578
Coke used for power	2,865	1,452	4,317
	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	91,090	10,127	101,217
Purchased	71,138	8,011	79,149
TOTAL—Electricity	162,228	18,138	180,366

* In addition to the quantities shown, 44,331 tons of coal (25,136 tons in England and Wales and 19,195 tons in Scotland) were recorded as used for power and other purposes, not separately distinguished.