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on the  
CENSUS OF PRODUCTION  
FOR 1951

Volume 6

Trade C

WOOLLEN AND WORSTED



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in pursuance of the Statistics of Trade Act, 1947  
(10 & 11 Geo. 6, Ch. 39, Sec. 7).*

LONDON: HER MAJESTY'S STATIONERY OFFICE

1956

TWO SHILLINGS NET

42

[HA 25]



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\* Not applicable to this trade

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WOOLLEN AND WORSTED TRADE

THIS REPORT on the Woollen and Worsted Trade relates to establishments engaged wholly or mainly in the sorting, blending, scouring and carbonising of wool and other animal hair, the recovery of wool from rags, and all intermediate processes up to and including the weaving of woollen and worsted fabrics, the manufacture of wool felt and the manufacture of wool blankets, etc. The spinning of rayon, nylon, etc. staple fibre by woollen and worsted spinners is included.

Establishments engaged mainly in burling and mending of woollen and worsted fabrics are included prior to 1951; for 1951 they have been excluded and are classified to the Textile Finishing Trade (Volume 6, Trade P).

This trade corresponds to minimum list heading 112 in the Standard Industrial Classification.

IMPORTANT NOTES and definitions appear on the inside of the back cover of this report. In interpreting the data in the following tables, it is essential to bear these in mind.



## WOOLLEN AND WORSTED TRADE

## Summary

## Larger establishments (a)

	United Kingdom			Great Britain		United Kingdom	
	1951	1950	1949	1949	1948	1937	1935
	£'000	£'000	£'000	£'000	£'000	£'000	£'000
Gross output (production) (b)	685,406	549,576	412,964	411,866	349,681	141,033	118,373
Manufacturers' 7½ per cent. subsidy	-	-	63	63	1,149	-	-
Cotton subsidy	-	-	38	38	208	-	-
Cost of materials and fuel used (c)	542,250	387,105	276,467	275,845	219,247	95,306	74,016
Payment for work done on materials given out	19,506	20,188	18,249	18,240	16,718	6,575	6,374
Transport payments (d)	1,880	..	..	..	..	..	..
Net output	121,771	142,282	118,350	117,883	115,074	39,152	37,983
Wages and salaries of persons employed	60,380	59,153	53,628	53,388	47,985	..	..
Average number of persons employed (e)	No. 192,353	No. 201,289	No. 194,946	No. 193,737	No. 183,668	No. 219,554	No. 212,950
Net output per person employed (e)	£ 633	£ 707	£ 607	£ 608	£ 626	£ 178	£ 178
Stocks at end of year	£'000	£'000	£'000	£'000	£'000	£'000	£'000
Products on hand for sale and work in progress	73,636	64,829	41,440	41,368	34,907	..	..
Materials and fuel	76,746	112,110	74,129	73,981	60,204	..	..
Number of establishments	No. 1,502	No. 1,553	No. 1,526	No. 1,516	No. 1,457	No. ..	No. 1,423

The values of gross output and of materials and fuel used are derived in the following way:-

	£'000	£'000	£'000	£'000	£'000	£'000	£'000
Output of firms in this trade (f)							
Principal products (g)	669,326	531,063	409,306	408,188	338,070	137,880	116,224
Other output (h)	7,426						
Changes in stocks and work in progress (i)	+ 8,654	+19,588	+ 4,641	+ 4,655	+ 7,652		
Less payment for transport outwards (d)	685,406	550,651	413,947	412,843	350,311	141,033	118,373
	..	1,075	983	977	629		
Gross output (production)	685,406	549,576	412,964	411,866	349,681	141,033	118,373
Materials and fuel used by firms in this trade							
Purchases	507,951	427,766	290,143	289,492	225,746	95,306	74,016
Changes in stocks (i)	+34,299	- 40,660	- 13,677	- 13,648	- 6,499		
Materials and fuel used	542,250	387,105	276,467	275,845	219,247	95,306	74,016

(a) For small firms' summary see Table 2.

(b) Gross output for 1951 includes payments to other firms and undertakings and to firms' own separate transport organisations for transport services. For other years payments for transport services outwards on finished goods sold are excluded.

(c) Amounts paid for delivery services are excluded for 1951 but included for other years.

(d) Payments to other firms and undertakings and to firms' own separate transport organisations. For 1951 they cover payments for transport of both goods sold and materials and fuel purchased. For other years payments cover only transport outwards of finished goods sold.

(e) Excluding outworkers but including working proprietors. For an estimate of the total number of persons employed in this trade see Table 3.

(f) Total value of sales (1951, 1950, 1949 and 1948) or production for sale (1937 and 1935).

(g) For details for 1951 and 1948 see Table 8.

(h) For details for 1951 and 1948 see Table 10.

(i) For details for 1951 see Table 21.

## Summary

## Small firms (a)

TABLE 2

	Great Britain		United Kingdom	Great Britain	
	1951	1950	1949	1949	1948
Number of returns	516	585	598	592	529
Average number of persons employed (b)					
Males	2,034	1,980	2,069	2,038	1,841
Females	893	1,365	1,358	1,348	1,025
Total	2,927	3,345	3,427	3,386	2,866

(a) Small firms (employing on the average ten or fewer persons) that made satisfactory returns. No information about small firms was collected in Northern Ireland for 1951 or 1950.

(b) Including working proprietors.

## Estimated average employment (a)

TABLE 3

## All firms

Number

	United Kingdom			Great Britain	
	1951	1950	1949	1949	1948
As returned by firms					
Employing on the average more than ten persons (b)	192,353	201,289	194,946	193,737	183,668
Employing on the average ten or fewer persons (c)	2,927 (d)	3,345 (d)	3,427	3,386	2,866
Estimated average employment in firms not making satisfactory returns	195,280	204,634	198,373	197,123	186,534
	210	175	308	308	594
Estimated average employment in all firms	195,490 (d)	204,809 (d)	198,681	197,431	187,128

(a) Including working proprietors.

(b) See Tables 13(iv) and 14.

(c) See Table 2.

(d) Excluding any small firms in Northern Ireland.

## Analysis by size, 1951

## Larger establishments in the United Kingdom

TABLE 4

Average number employed	Establishments	Gross output	Net output	Persons employed	Remuneration			Net output per person employed
					Operatives	Other employees (a)	Total	
	No.	£'000	£'000	No.	£'000	£'000	£'000	£
11 - 24	237	29,847	3,234	4,251	983	497	1,480	761
25 - 49	302	68,848	9,002	10,898	2,710	1,068	3,777	826
50 - 99	354	108,972	17,109	25,625	6,405	1,779	8,184	668
100 - 199	337	174,514	30,241	48,139	12,314	2,931	15,245	628
200 - 299	137	91,304	19,621	32,363	8,394	1,729	10,123	606
300 - 399	59	58,562	12,185	20,020	5,121	1,068	6,189	609
400 - 499	35	41,639	9,506	15,504	3,762	888	4,650	613
500 - 749	22	37,280	8,106	13,031	3,297	731	4,028	622
750 - 999	10	24,344	4,568	8,648	2,138	346	2,483	528
1,000 - 1,499	4	19,335	1,885	4,355	1,101	195	1,296	433
1,500 and over	5	30,760	6,314	9,519	2,405	520	2,925	663
Total	1,502	685,406	121,771	192,353	48,629	11,751	60,380	633

(a) Administrative, technical and clerical employees.



Analysis by standard region, 1951

Larger establishments in the United Kingdom

TABLE 5

Region	Establishments	Gross output	Net output		Persons employed	Remuneration			Net output per person employed
			Value	Percentage of total		Operatives	Other employees (a)	Total	
	No.	£'000	£'000		No.	£'000	£'000	£'000	£
England									
Northern	22	10,162	2,449	2.0	4,560	928	237	1,165	537
East and West Ridings	1,158	562,426	94,473	77.6	147,377	38,079	9,058	47,136	641
North Midland	23	13,092	2,797	2.3	3,711	793	266	1,059	754
Eastern	-	-	-	-	-	-	-	-	-
London and South Eastern	6	641	85	0.1	161	33	13	46	528
Southern	10	3,832	460	0.4	1,228	354	69	423	375
South Western	32	8,882	2,010	1.7	4,604	1,131	273	1,404	437
Midland	12	5,409	1,018	0.8	1,618	434	116	550	629
North Western	71	29,880	6,110	5.0	9,010	2,493	673	3,165	678
Total England	1,334	634,323	109,402	89.8	172,269	44,245	10,705	54,950	635
Wales	10	623	174	0.1	451	81	18	99	385
Scotland	144	47,710	11,695	9.6	18,018	4,008	980	4,988	649
Great Britain	1,488	682,656	121,270	99.6	190,738	48,334	11,702	60,036	636
Northern Ireland	14	2,750	500	0.4	1,615	295	49	345	310
United Kingdom	1,502	685,406	121,771	100.0	192,353	48,629	11,751	60,380	633

(a) Administrative, technical and clerical employees.

Analysis according to specialisation within the trade, 1951

Larger establishments in the United Kingdom

TABLE 6

	Establishments	Gross output	Sales of characteristic products	Net output	Persons employed	Remuneration			Net output per person employed
						Operatives	Other employees (a)	Total	
	No.	£'000	£'000	£'000	No.	£'000	£'000	£'000	£
Specialist producers of Wool and hair, sorted, blended, scoured or carbonised, but not otherwise treated	30	12,908	12,589	1,065	737	179	189	368	1,445
Recovered wool (shoddy or mungo)	50	10,124	9,353	1,843	1,946	524	196	720	947
Tops									
Wool merchants (b)	51	108,565	104,402	5,568	2,045	582	678	1,260	2,723
Commission combers	58	7,038	6,756	4,820	7,590	2,487	374	2,860	635
Other combers	18	44,872	38,501	2,783	4,251	1,385	353	1,738	655
Woollen yarns	90	42,619	38,231	6,400	8,651	2,285	558	2,842	740
Worsted yarns	278	184,150	156,711	31,612	54,028	11,857	2,647	14,504	585
Damasks, tapestries, brocades and the like	4	286	258	115	314	56	42	98	367
Other woven woollen fabrics	343	114,879	103,374	31,594	52,549	13,870	3,030	16,900	601
Other woven worsted fabrics	325	109,932	88,291	23,016	37,980	9,426	2,433	11,859	606
Blankets, shawls (other than knitted), travelling rugs, etc.	66	16,684	14,312	3,091	6,555	1,685	318	2,004	471
Mechanical cloth and wool felts	33	14,724	11,746	3,991	4,505	1,348	389	1,738	886
Remainder of the trade	156	18,625		5,873	11,202	2,945	544	3,489	524
Total	1,502	685,406		121,771	192,353	48,629	11,751	60,380	633

(a) Administrative, technical and clerical employees.

(b) Including establishments which purchase wool, sort, blend or scour it, and give it out to be combed on commission. Establishments combing wool or carrying out any subsequent process are excluded.



## Total make of intermediate products

## Larger establishments

TABLE 7

	Returned in this trade		Returned in all trades			
	United Kingdom 1951		Great Britain 1948	United Kingdom 1951		Great Britain 1948
	Quantity	Entries	Quantity	Quantity	Entries	Quantity
	Th. lbs.	No.	Th. lbs.	Th. lbs.	No.	Th. lbs.
Wool and hair, sorted, blended, scoured or carbonised, but not otherwise treated						
Wool sorted or blended, not scoured	(a)	..	474,867	407,605	232	475,834
Wool scoured	(a)	..	400,146	308,626	176	400,146
Wool and wool by-products, carbonised	(a)	..	23,999	24,134	29	24,006
Other animal hair, including alpaca, mohair, etc.	(a)	..	13,280	17,494	35	13,280
Recovered wool (shoddy or mungo)	87,973	111	59,342	93,351	122	67,139
Tops or slubbings (first combed)						
Oil combed						
Merino, 60's quality and above	108,476	57	117,230	108,476	57	117,230
Crossbred, above 50's to 58's	45,179	40	44,250	45,179	40	44,250
Crossbred, 50's and below	(a)	..	60,445	46,679	48	60,445
Dry combed						
Merino, 60's quality and above	29,122	31	31,471	29,122	31	31,471
Crossbred, above 50's to 58's	3,643	23	10,049	3,643	23	10,049
Crossbred, 50's and below	3,239	15	3,239	3,239	15	3,239
Other tops						
Wholly of animal hair (including alpaca, mohair, etc.)	10,513	20	12,214	10,513	20	12,214
Wholly of synthetic fibres (rayon staple, etc.)	15,720	17	4,957	15,720	17	4,957
Total tops or slubbings (first combed)	..	..	280,616	262,571	..	280,616
Tops and slubbings re-combed	52,750	63	(b)	52,750	63	(b)
Noils						
Oil combed	(a)	..	26,762	23,077	103	26,762
Dry combed	4,982	43	7,555	4,982	43	7,555
Combers' shoddy, burrs, etc.	13,079	76	15,515	13,079	76	15,515
Yarn, other than for carpets and rugs or for hand-knitting						
Woollen (carded only)						
All wool	117,012	292	159,599	117,012	292	252,299
Of wool mixed with other materials	110,042	226	91,208	113,899	239	
Total woollen (carded only)	227,054	..	250,807	230,912	..	252,299
Worsted (combed)						
All wool	(a)	..	156,040	165,482	266	163,957
Of wool mixed with other materials	(a)	..	5,893	15,452	103	
Total worsted (combed)	(a)	..	161,932	180,934	..	163,957
Mohair	2,753	16	3,473	2,753	16	3,473
Cashmere	639	13	420	639	13	420
Other yarn of hair or of hair mixed with other materials	7,719	26	5,351	7,719	26	5,421
Total hair	11,111	..	9,241	11,111	..	9,313
Total yarn, other than for carpets and rugs or for hand-knitting	(a)	..	421,981	422,956	..	425,569

TABLE 7 (contd.)

	Returned in this trade		Returned in all trades			
	United Kingdom 1951		Great Britain 1948	United Kingdom 1951		Great Britain 1948
	Quantity	Entries	Quantity	Quantity	Entries	Quantity
	Th. lbs.	No.	Th. lbs.	Th. lbs.	No.	Th. lbs.
Hand-knitting yarn, including mending yarn, i.e., skeins, balls and the like, for retail sale						
Woollen	2,159	45	3,362	2,159	45	3,466
Worsted	22,772	93	17,719	22,772	93	17,726
Alpaca, mohair, cashmere, angora rabbits' and camels' hair	547	10	218	547	10	218
Total hand-knitting yarn	25,478	..	21,299	25,478	..	21,410
Carpet and rug yarn						
All wool, or of wool mixed with other materials						
Woollen	51,906	74	44,718	66,108	82	57,173
Worsted	3,603	..	5,138	4,588	21	5,655
Of hair	(a)	..	(b)	1,017	12	(b)
Total carpet and rug yarn	(a)	..	49,856	71,713	..	62,828
Total yarn of wool and hair	500,478	..	493,136	520,147	..	509,807
Spun rayon, nylon, etc. yarn	1,067	15	..	(c)	..	(c)
Manufactures of wool	Th. sq. yds.		Th. sq. yds.	Th. sq. yds.		Th. sq. yds.
Fabrics wholly or mainly of alpaca, mohair and cashmere, not being pile fabrics	(a)	..	1,314	1,197	23	1,314
Wool and mohair plushes and other wire-loom and pile fabrics of wool and mohair	9,025	..	7,054	9,145	28	7,117
Mechanical cloth (other than woven felt)	5,401	30	3,973	5,401	30	3,973
Linings, lastings, etc.	2,342	8	803	2,342	8	803
Flannels and delaines	(b)	..	11,862	(b)	..	11,869
Other woven woollen fabrics						
All wool						
Weighing 16 ozs. and over to the square yard	9,594	145	6,928	9,594	145	6,928
Weighing 12 and under 16 ozs. to the square yard	22,513	207	33,835	22,513	207	33,835
Weighing 8 and under 12 ozs. to the square yard	(a)	..	77,941	56,839	244	77,941
Weighing under 8 ozs. to the square yard	(a)	..	27,047	18,231	147	27,059
Of wool mixed with other materials, if known as 'woollens'						
Weighing 16 ozs. and over to the square yard	10,892	66	8,201	10,892	66	8,201
Weighing 12 and under 16 ozs. to the square yard	(a)	..	16,637	26,106	135	16,637
Weighing 8 and under 12 ozs. to the square yard	69,122	183	53,838	69,122	183	53,838
Weighing under 8 ozs. to the square yard	31,487	106	10,327	31,487	106	10,516
Unclassified	5,782	8	6,011(d)	5,782	8	10,271(d)
Other woven worsted fabrics						
All wool						
Weighing 12 ozs. and over to the square yard	14,244	121	7,094	14,244	121	7,094
Weighing 8 and under 12 ozs. to the square yard	(a)	..	66,909	65,421	265	66,914



TABLE 7 (contd.)

	Returned in this trade			Returned in all trades		
	United Kingdom 1951		Great Britain 1948	United Kingdom 1951		Great Britain 1948
	Quantity	Entries	Quantity	Quantity	Entries	Quantity
	Th.sq.yds.	No.	Th.sq.yds.	Th.sq.yds.	No.	Th.sq.yds.
Manufactures of wool (contd.)						
Other woven worsted fabrics (contd.)						
All wool (contd.)						
Weighing under 8 ozs. to the square yard	(a)	..	29,894	18,203	172	29,894
Of wool mixed with other materials if known as 'worsted'						
Weighing 12 ozs. and over to the square yard	(a)	..	580	1,712	30	580
Weighing 8 and under 12 ozs. to the square yard	15,509	103	5,960	15,509	103	5,960
Weighing under 8 ozs. to the square yard	(a)	..	6,636	18,621	87	6,687
Unclassified	5,110	12	3,362(e)	5,110	12	4,287(e)

(a) Owing to the risk of disclosure of information relating to individual firms, separate particulars cannot be given.

(b) Not recorded separately.

(c) For the output by establishments classified to other trades see the Cotton Spinning and Doubling Trade, the Linen and Soft Hemp Trade and the Jute Trade (Volume 6 - Trades A, F and G, respectively).

(d) Woven woollen fabrics of all kinds, unclassified.

(e) Woven worsted fabrics of all kinds, unclassified.

Sales of the principal products of the trade, including sales of these products by establishments classified to other trades

## Larger establishments

TABLE 8

	United Kingdom 1951			Great Britain 1948	
	Quantity	Value	Entries	Quantity	Value
	Th.lbs.	£'000	No.	Th.lbs.	£'000
Wool, sorted, blended, scoured or carbonised, but not otherwise treated					
Wool, sorted or blended, not scoured	35,560	12,580	85	42,845	5,355
Wool scoured (a)	20,349	9,575	57	20,674	3,952
Wool and wool by-products, carbonised (b)	6,219	3,472	20	8,620	1,634
Other animal hair, including alpaca, mohair, etc.	3,475	1,112	13	2,269	379
Recovered wool (shoddy or mungo)	68,054	10,333	68	51,743	3,842
Tops or slubbings, (first combed)					
Oil combed					
Merino, 60's quality and above	72,155	69,043	55	83,092	30,965
Crossbred, above 50's to 58's	36,212	25,892	49	36,803	8,439
Crossbred, 50's and below	38,032	21,871	45	46,203	7,016
Dry combed					
Merino, 60's quality and above	13,290	12,188	40	19,805	7,018
Crossbred, above 50's to 58's	3,035	2,215	28	7,482	1,703
Crossbred, 50's and below	2,402	1,490	17		
Other tops					
Wholly of animal hair (including alpaca, mohair, etc.)	3,833	1,654	13	5,360	1,003
Wholly of synthetic fibres (rayon staple, etc.)	9,176	1,475	9	4,197	465
Total tops or slubbings (first combed)	178,134	135,828	..	202,940	56,609

(6858/2)

TABLE 8 (contd.)

	United Kingdom 1951			Great Britain 1948	
	Quantity	Value	Entries	Quantity	Value
	Th.lbs.	£'000	No.	Th.lbs.	£'000
Tops or slubbings, re-combed	4,133	3,767	9	..	1,405(c)
Noils					
Oil combed	21,345	11,118	125	26,679	3,704
Dry combed	3,714	1,560	55	5,875	1,687
Combers' shoddy, burrs, etc.	12,336	1,758	106	14,604	408
Yarn, other than for carpets and rugs or for hand-knitting					
Woollen (carded only)					
All wool	18,103	11,702	87	30,391	8,519
Of wool mixed with other materials	18,397	9,693	60	8,817	2,569
Worsted (combed)					
All wool	125,269	125,153	225	139,645	62,176
Of wool mixed with other materials	13,973	10,756	86	6,862	2,510
Mohair	2,365	2,128	13	3,625	1,369
Cashmere	513	2,164	10	404	794
Other yarn of hair or of hair mixed with other materials	6,931	3,583	21	5,125	1,440
Hand-knitting yarn, including mending yarn, i.e., skeins, balls and the like, for retail sale					
Woollen	1,924	1,465	49	3,445	1,554
Worsted	22,047	20,255	90	18,570	9,720
Alpaca, mohair, cashmere, angora rabbits' and camels' hair	422	1,339	8	203	530
Carpet and rug yarn					
All wool, or of wool mixed with other materials					
Woollen	48,255	25,697	66	46,319	9,990
Worsted	3,480	2,406	17	4,764	1,301
Of hair	929	482	11	..	(d)
Total yarn of wool and hair	262,607	216,823	..	268,169	102,470
Spun rayon, nylon, etc. yarn (e)	1,024	360	15	3,075	553
Manufactures of wool					
Fabrics wholly or mainly of alpaca, mohair and cashmere, not being pile fabrics	1,170	1,088	21	1,464	709
Damasks, tapestries, brocades and the like	702	547	10	1,813	1,002
Wool and mohair plushes and other wireloom and pile fabrics of wool and mohair	8,920	7,073	27	7,244	3,911
Mechanical cloth (other than woven felt)	5,054	5,703	29	3,910	1,892
Linings, lastings, etc.	1,002	331	5	1,020	153
Inter-linings, including hair inter-linings, so far as recorded	1,477	340	7	-	-
Flannels and delaines	..	(d)	..	11,663	2,655
Other woven woollen fabrics					
All wool					
Weighing 16 ozs. and over to the square yard	8,756	8,025	139	6,753	3,510
Weighing 12 and under 16 ozs. to the square yard	20,989	14,793	199	32,883	12,403
Weighing 8 and under 12 ozs. to the square yard	53,721	29,934	235	73,522	24,529
Weighing under 8 ozs. to the square yard	17,407	7,666	141	26,093	6,433
Total other woven woollen fabrics, all wool	100,873	60,418	..	139,252	46,875

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TABLE 8 (contd.)

	United Kingdom 1951			Great Britain 1948	
	Quantity	Value	Entries	Quantity	Value
Manufactures of wool (contd.)	Th.sq.yds.	£'000	No.	Th.sq.yds.	£'000
Other woven woollen fabrics (contd.)					
Of wool mixed with other materials, if known as 'woollens'					
Weighing 16 ozs. and over to the square yard	9,751	4,857	60	8,153	2,987
Weighing 12 and under 16 ozs. to the square yard	25,079	10,800	124	16,221	4,661
Weighing 8 and under 12 ozs. to the square yard	65,216	25,525	168	53,857	12,370
Weighing under 8 ozs. to the square yard	28,514	8,747	95	9,852	2,079
Total other woven woollen fabrics of wool mixed with other materials	128,560	49,929	..	88,082	22,098
Unclassified	11,087	3,820	28	9,670	1,910(f) 243
Other woven worsted fabrics					
All wool					
Weighing 12 ozs. and over to the square yard	7,550	7,250	99	4,643	3,055
Weighing 8 and under 12 ozs. to the square yard	54,762	48,833	243	55,322	29,937
Weighing under 8 ozs. to the square yard	17,273	11,764	158	28,273	10,310
Total other woven worsted fabrics, all wool	79,586	67,847	..	88,238	43,301
Of wool mixed with other materials, if known as 'worsted'					
Weighing 12 ozs. and over to the square yard	950	826	23	233	114
Weighing 8 and under 12 ozs. to the square yard	13,266	9,455	92	5,293	2,389
Weighing under 8 ozs. to the square yard	15,727	8,405	81	6,086	1,872
Total other woven worsted fabrics of wool mixed with other materials	29,943	18,687	..	11,613	4,375
Unclassified	5,869	5,097	23	3,103	924(g)
Woven piece goods purchased and finished, so far as recorded	8,980	4,088	56	8,298	2,537 127
Blankets	Th.pairs			Th.pairs	
Cot size	197	276	53	415	262
Full size (single or double)	3,386	14,800	103	3,165	7,236
Travelling rugs, coverlets, wrappers and shawls (other than knitted)	Th.sq.yds.			Th.sq.yds.	
	1,786	1,166	63	1,000	468 22
Woven wool felt (including asbestos wool felt) for use in the manufacture of paper and board and asbestos sheets	Th.lbs.			Th.lbs.	
	2,847	4,279	10	2,604	1,791
Pressed wool felt and other wool felt (including wool needle felt)	..	5,065	25	..	3,399
Flags and banners of wool bunting (c)	Thous.			Thous.	
	419	337	9	361	143 81
Other manufactures of wool, except carpets and rugs, clothing, smallwares and flocks	..	634	17	..	704
Wool waste, other than combers' waste (h)	Th.lbs.			Th.lbs.	
	41,290	8,527	1,303	55,516	4,009
Total goods made for sale		668,336	..		332,823

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TABLE 8 (contd.)

	United Kingdom 1951			Great Britain 1948	
	Quantity	Value	Entries	Quantity	Value
Work done for the trade or on commission (i)		£'000	No.		£'000
Wool sorting, blending, scouring and carbonising		1,059	85		909
Wool combing		6,996	62		6,749
Wool re-combing		836	36		537
Woollen spinning		1,120	152		655
Worsted spinning		1,268	130		901
Winding and warping		249	189		222
Weaving		2,647	253		2,608
Other work done for the trade (j)		866	208		
Total work done for the trade or on commission		15,041	..		12,581
Total		683,378	..		345,404
Sales in other trades (see Table 9)		14,052	..		7,335
Principal products of this trade sold by establishments in the trade		669,326	1,282		338,070

- (a) Processed weight.  
 (b) Weight produced.  
 (c) So far as recorded separately.  
 (d) Not recorded separately.  
 (e) Yarn spun by woollen and worsted spinners only.  
 (f) Woven woollen fabrics of all kinds, unclassified.  
 (g) Woven worsted fabrics of all kinds, unclassified.  
 (h) Excluding wool waste sorted and cleaned, for which see the Flock and Rag Trade (Volume 7, Trade B).  
 (i) Amount charged.  
 (j) The 1948 figure includes burling and mending of woollen and worsted fabrics which is classified to the Textile Finishing Trade (Volume 6, Trade F) for 1951.

Sales of principal products of the trade by establishments  
 classified to other trades  
 Larger establishments

TABLE 9

	United Kingdom 1951			Great Britain 1948	
	Quantity	Value	Entries	Quantity	Value
	Th.lbs.	£'000	No.	Th.lbs.	£'000
Wool, sorted, blended, scoured or carbonised, but not otherwise treated				974	122
Tops or slubbings (first combed)					
Oil combed	560	213	5		
Crossbred, 50's and below					
Noils					
Oil combed					
Recovered wool (shoddy or mungo)	5,378	767	11	7,797	481
Yarn, other than for carpets and rugs or for hand-knitting					
Woollen (carded only)					
Of wool mixed with other materials	3,833	2,203	13	1,802	467(a)

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TABLE 9 (contd.)

	United Kingdom 1951			Great Britain 1948	
	Quantity	Value	Entries	Quantity	Value
	Th.lbs.	£'000	No.	Th.lbs.	£'000
Yarn, other than for carpets and rugs or for hand-knitting (contd.)					
Worsted (combed)				1,893	514
Hand-knitting yarn, including mending yarn, i.e., skeins, balls and the like, for retail sale				110	78
Carpet and rug yarn	1,692	1,052	7		
All wool, or of wool mixed with other materials				2,164	494(b)
Woollen				..	(c)
Of hair					
Manufactures of wool	Th.sq.yds.			Th.sq.yds.	
Fabrics wholly or mainly of alpaca, mohair and cashmere, not being pile fabrics				..	(c)
Damasks, tapestries, brocades and the like	358	241	5	89	80
Wool and mohair plushes and other wire-loom and pile fabrics of wool and mohair				63	34
Inter-linings, including hair inter-linings, so far as recorded	1,477	340	7	-	-
Other woven woollen fabrics					
All wool					
Weighing 8 and under 12 ozs. to the square yard					
Weighing under 8 ozs. to the square yard					
Of wool mixed with other materials, if known as 'woollens'	5,131	1,250	22	6,733	906(d)
Weighing 12 and under 16 ozs. to the square yard				..	128
Unclassified					
Other woven worsted fabrics					
All wool					
Weighing 8 and under 12 ozs. to the square yard				8	2
Weighing under 8 ozs. to the square yard				-	-
Of wool mixed with other materials, if known as 'worsted'	1,913	1,053	11		
Weighing 12 ozs. and over to the square yard				-	-
Weighing under 8 ozs. to the square yard				48	11
Unclassified				885	205(e)
Woven piece goods purchased and finished, so far as recorded	9,980	4,088	56	8,298	2,537
Blankets					
Full size (single or double)				..	2(f)
Travelling rugs, coverlets, wrappers and shawls (other than knitted)	..	107	9	54	25
Pressed wool felt and other wool felt (including wool needle felt)	..	428	11	..	37
Other manufactures of wool (including flags and banners of wool bunting), except carpets and rugs, clothing, smallwares and flocks	..	461	14	..	215
Wool waste, other than combers waste	Th.lbs. 10,229	1,780	648	Th.lbs. 12,028	757
Total goods made for sale		13,983	..		7,223

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TABLE 9 (contd.)

	United Kingdom 1951			Great Britain 1948	
	Quantity	Value	Entries	Quantity	Value
		£'000	No.		£'000
Work done for the trade or on commission (g)					
Winding and warping		40	..		74
Other work done for the trade, including weaving but excluding wool sorting, blending, scouring and carbonising, wool combing and re-combing, and woollen and worsted spinning		29	..		39(h)
Total		14,052	..		7,335

(a) Including all wool yarn and yarn of hair or of hair mixed with other materials.

(b) Including worsted yarn.

(c) Not recorded separately.

(d) Flannels and delaines, other woven woollen fabrics weighing under 8 ozs. to the square yard, and unclassified woven woollen fabrics.

(e) Woven worsted fabrics of all kinds, unclassified.

(f) Including cot size.

(g) Amount charged.

(h) Including wool sorting, blending, scouring and carbonising, and woollen and worsted spinning.

## Sales in the trade of other than principal products

## Larger establishments

TABLE 10

	United Kingdom 1951		Great Britain 1948	
	Quantity	Value	Quantity	Value
	Th.lbs.	£'000	Th.lbs.	£'000
Wool rags, dyed, carbonised, etc.	3,766	355	2,267	96
Wool flocks	3,668	126	4,645	79
Carpets, carpeting and floor rugs of wool (including those on a wool or jute base), and mohair and pile fabric rugs	Th.sq.yds. 361	480	Th.sq.yds. 214	262
..			..	62
Piece goods				
Of cotton and of silk (including mixtures)	3,382	1,398	6,143	617
Of rayon, nylon, etc.			..	119
Wholly of continuous filament yarn	667	115	1,937	335
Other, including mixtures	3,928	1,184	3,533	421
Hair cloth	Th.lbs. 799	353	Th.lbs. 600	213
Felt, other than wool felt, wholly or partly of animal hair, including needle felt	Th.sq.yds. 994	546	..	355
Manufactures of felt	..	384	..	174
Other goods	..	1,204	..	1,342
Cotton, silk, rayon, nylon and other waste	..	863	..	78
Work done (a)		419		437
Total		7,426		4,589

(a) Amount charged.

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## Production, exports and imports of certain principal products (a)

TABLE 11

		Production (b)	Exports	Retained imports
		Th.lbs.	Th.lbs.	Th.lbs.
Recovered wool (shoddy or mungo)	1951	93,351	10,201	47
	1948	67,139	6,045	6
	1937	135,833(c)	8,755	12
Tops or slubbings (first combed)				
Merino	1951	137,598	22,472	969
	1948	148,701	24,676	7
	1937	141,485(c)	12,738	92
Other wool or hair	1951	109,253	26,926	697
	1948	126,958	34,893	31
	1937	136,904(c)	27,443	286
Noils	1951	28,059	13,072	952
	1948	34,316	13,095(d)	879(d)
	1937	30,927(c)	12,678(d)	2,760(d)
Yarn				
Woollen (carded)				
Hand-knitting yarn, including mending yarn	1951	2,159	1,780	..
	1948	3,466	1,332	..
Other	1951	297,019	3,400	..
	1948	309,472	2,520	..
Total woollen yarn (carded)	1951	299,178	5,180	1,740
	1948	312,938	3,852	3,967
	1937	312,870(c)	6,871	583
Worsted (combed)				
Hand-knitting yarn, including mending yarn	1951	22,772	5,819	..
	1948	17,726	7,096	..
Other	1951	185,522	11,281	..
	1948	169,612	6,787	..
Total worsted yarn (combed)	1951	208,294	17,100	4,863
	1948	187,338	13,883	5,150
	1937	223,077(c)	25,452	1,755
Alpaca, mohair, cashmere and other hair or wool	1951	12,675	4,275	167
	1948	9,532	3,153	466
	1937	16,634(c)	9,056	296
Manufactures of wool				
Fabrics wholly or mainly of alpaca, mohair and cashmere, not being pile fabrics	1951	1,197	620	4
	1948	1,314	411	3
	1937	6,303(e)	1,764	24
Damasks, tapestries, brocades and the like	1951	702(f)	219	1,008
	1948	1,892	107	63
	1937	400(e)(g)	40	104
Wool and mohair plushes and other wire-loom and pile fabrics of wool and mohair	1951	9,145	2,658	526
	1948	7,177	1,406	259
	1937	9,526(e)	570	1,384
Mechanical cloth (other than woven felt)	1951	5,401	926	-
	1948	3,973	712	-
Other woven woollen fabrics				
All wool (h)				
Weighing 16 ozs. and over to the square yard	1951	9,594	2,306	1,889
	1948	6,928	2,325	409
	1937	12,115(e)	3,133	34
Weighing 12 and under 16 ozs. to the square yard	1951	22,513	6,468	1,799
	1948	33,835	6,027	1,027
	1937	17,030(e)	4,833	117
Weighing 8 and under 12 ozs. to the square yard	1951	56,839	22,943	4,043
	1948	77,941	29,814	3,763
	1937	46,637(e)	21,604	610
Weighing under 8 ozs. to the square yard	1951	18,231	13,585	3,611
	1948	27,059	17,346	3,988
	1937	22,774(e)	10,147	6,304

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TABLE 11 (contd.)

		Production (b)	Exports	Retained imports
		Th.sq.yds.	Th.sq.yds.	Th.sq.yds.
Manufactures of wool (contd.)				
Other woven woollen fabrics (contd.)				
Of wool mixed with other materials, if known as 'woollens' (i)				
Weighing 16 ozs. and over to the square yard	1951	10,892	505	429
	1948	8,201	522	37
	1937	21,065(e)	2,288	133
Weighing 12 and under 16 ozs. to the square yard	1951	26,106	1,683	735
	1948	16,637	924	36
	1937	30,757(e)	4,606	152
Weighing 8 and under 12 ozs. to the square yard	1951	69,122	13,125	335
	1948	53,838	7,552	1,320
	1937	84,200(e)	17,983	94
Weighing under 8 ozs. to the square yard	1951	31,487	9,585	161
	1948	10,516	5,392	57
	1937	21,136(e)	15,156	186
Total other woven woollen fabrics	1951	244,784	70,200	13,002
	1948	234,955	69,901	10,637
	1937	255,714(e)	79,750	7,630
Other woven worsted fabrics (j)				
All wool (h)				
Weighing 12 ozs. and over to the square yard	1951	14,244	1,352	67
	1948	7,094	865	76
	1937	7,434(e)	1,369	8
Weighing 8 and under 12 ozs. to the square yard	1951	65,421	21,265	..
	1948	66,914	20,087	..
Weighing under 8 ozs. to the square yard	1951	18,203	12,261	..
	1948	23,894	8,024	..
Total fabrics weighing under 12 ozs. to the square yard	1951	83,624	33,526	4,944
	1948	96,808	28,111	2,712
	1937	74,189(e)	18,544	47
Of wool mixed with other materials, if known as 'worsted' (i)				
Weighing 12 ozs. and over to the square yard	1951	1,712	277	15
	1948	580	328	32
	1937	2,333(e)	974	10
Weighing 8 and under 12 ozs. to the square yard	1951	15,509	1,418	..
	1948	5,960	1,769	..
Weighing under 8 ozs. to the square yard	1951	18,621	2,427	..
	1948	6,687	1,549	..
Total fabrics weighing under 12 ozs. to the square yard	1951	34,130	3,845	104
	1948	12,647	3,317	825
	1937	42,751(e)	17,896	21
Total other woven worsted fabrics (k)	1951	136,053	41,670	5,130
	1948	117,932	34,777	3,645
	1937	135,057(e)	42,960	89
Total woven fabrics	1951	408,174(l)	118,728(m)	19,670
	1948	395,100(l)(n)	113,809	14,685
	1937	426,934(n)	129,527	9,234

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TABLE 11 (contd.)

		Production (b)	Exports	Retained imports
		Th. prs.	Th. prs.	Th. prs.
Manufactures of wool (contd.)				
Blankets	{ 1951 { 1948 { 1937	3,583(f) 3,628 3,399(e)	667 1,711 613	38 12 3
Travelling rugs, coverlets, wrappers and shawls (other than knitted)	{ 1951 { 1948	£'000 1,166(f) 490(f)	£'000(o) 416 298	£'000(p) .. 6
Wool felt	{ 1951 { 1948	9,344(f) 5,190(f)	2,200 1,130	223 24

- (a) Figures of production (or sales) refer only to larger establishments in the United Kingdom (1951 and 1937) or Great Britain (1948). All recorded exports from and imports into the United Kingdom are given in the Table. The figures, therefore, are not strictly comparable.
- (b) Including production (or sales) by establishments classified to other trades.
- (c) Excluding production by establishments classified to other trades.
- (d) Wool noils only.
- (e) Production for sale.
- (f) Sales.
- (g) Partly estimated.
- (h) Figures of exports in 1951 include mixtures containing not more than 5 per cent. by weight of other materials.
- (i) Figures of exports in 1951 exclude mixtures containing not more than 5 per cent. by weight of other materials.
- (j) Oversea trade figures for 1937 include knitted fabric.
- (k) Figures of production and exports include linings, lastings, etc.
- (l) Including unclassified production.
- (m) Including cut lengths of other woven woollen tissues, each containing not more than 25 square yards, not included in the above figures for exports.
- (n) Including production of flannels and delaines not included in the above figures for 1948 and 1937.
- (o) Valued f.o.b.
- (p) Valued c.i.f.

Usage of certain specified purchased materials, 1951  
Larger establishments in the United Kingdom

TABLE 12

Materials used	Quantity
	Th. lbs.
Cotton yarn	20,490
Continuous filament yarn of rayon, nylon, etc.	1,456
Spun yarn of rayon, nylon, etc.	6,118

TABLE 13

Employment in September  
Larger establishments (a)

	United Kingdom			Great Britain		United Kingdom	
	1951(b)	1950(b)	1949(b)	1949(b)	1948(c)	1937(c)	1935(c)
<b>(i) Operatives</b>							
Males							
Under 18	4,141	4,413	4,430	4,355	4,281	11,006	9,763
All ages	75,041	80,271	78,023	77,576	74,005	86,358	83,988
Females							
Under 18	10,980	11,238	11,261	11,136	11,634	23,668	19,132
All ages	99,122	103,575	100,453	99,800	94,410	120,805	116,987
Total							
Under 18	15,121	15,651	15,691	15,491	15,915	34,674	28,895
All ages	174,163	183,846	178,476	177,376	168,415	207,163	200,975

**(ii) Administrative, technical and clerical employees (d)**

	United Kingdom			Great Britain		United Kingdom	
	1951	1950	1949	1949	1948	1937	1935
<b>(ii) Administrative, technical and clerical employees (d)</b>							
Males							
Under 18	290	341	352	352	284	548	437
All ages	11,478	11,576	11,043	10,979	10,620	9,205	9,053
Females							
Under 18	873	895	841	836	795	624	386
All ages	5,089	5,000	4,737	4,709	4,351	3,186	2,922
Total							
Under 18	1,163	1,236	1,193	1,188	1,079	1,172	823
All ages	16,567(e)	16,576(e)	15,780(e)	15,688(e)	14,971(e)	12,391	11,975

**(iii) Total employees**

	United Kingdom			Great Britain		United Kingdom	
	1951	1950	1949	1949	1948	1937	1935
<b>(iii) Total employees</b>							
Males							
Under 18	4,431	4,754	4,782	4,707	4,565	11,554	10,200
All ages	86,519	91,847	89,066	88,555	84,625	95,563	93,041
Females							
Under 18	11,853	12,133	12,102	11,972	12,429	24,292	19,518
All ages	104,211	108,575	105,190	104,509	98,761	123,991	119,809
Total							
Under 18	16,284	16,887	16,884	16,679	16,994	35,846	29,718
All ages	190,730(e)	200,422(e)	194,256(e)	193,064(e)	183,386(e)	219,554	212,950

- (a) Excluded employees. The following persons were employed at the larger establishments in this trade in 1951 but are not included in the above tables or in any other Census of Production report (employees in Great Britain engaged, for example, in merchanting and in Northern Ireland canteen and welfare workers):-

Canteen workers 88 Males 2,197 Females  
Other workers 576 Males 367 Females

- (b) In week ended September 22, 1951, September 30, 1950, and September 24, 1949.

- (c) Average for the year.

- (d) In week ended September 22, 1951, September 30, 1950, September 24, 1949, September 25, 1948, October 16, 1937, and October 12, 1935.

- (e) Working proprietors. In addition working proprietors, shown in Table 13 (iv) below, were engaged in this trade in larger establishments. The 1937 and 1935 figures include working proprietors.

**(iv) Working proprietors**

	United Kingdom			Great Britain	
	1951	1950	1949	1949	1948
Males	190	245	274	261	263
Females	8	32	29	28	19
Total	198	277	303	289	282



Average employment  
Larger establishments (a)

TABLE 14

	Number						
	United Kingdom			Great Britain		United Kingdom	
	1951	1950	1949	1949	1948	1937	1935
Operatives	175,621	184,526	178,964	177,861	168,415	207,163	200,975
Administrative, technical and clerical employees	16,534	16,486	15,679	15,587	14,971(b)	12,391(b)	11,975(b)
Total	192,155	201,012	194,643	193,448	183,386	219,554	212,950

(a) For employment in small firms (employing on the average ten or fewer persons) that made satisfactory returns see Table 2.

(b) In week ended September 25, 1948, October 16, 1937, and October 12, 1935. The 1937 and 1935 figures include working proprietors.

Outworkers. In addition to the employees shown above the firms in this trade employed outworkers whose numbers are shown below.

	Number						
	United Kingdom			Great Britain		United Kingdom	
	1951	1950	1949	1949	1948	1937	1935
Males	1,895	2,125	1,843	1,843	1,638	..	..
Females	2,360	2,959	2,749	2,745	2,072	..	..
Total	4,255	5,084	4,592	4,588	3,710	..	..

## Shift working, 1951 (a)

## Larger establishments in Great Britain

TABLE 15

	Total number of man-shifts worked in the week	Total number of shift-hours worked in the week	Number of returns showing the systems stated
Continuous 3 shift systems per 24 hours averaging 8 hours per shift	1,355	10,840	2
Continuous 4 shift systems per 24 hours averaging 6 hours per shift	-	-	-
All 2 shift systems	34,807	332,470	80
Other shift systems	23,874	180,217	119
Total	60,036	523,527	(b)

(a) Shift working during week ended September 22, 1951.

(b) The number and percentage of returns showing shift working and of operatives on shift-work were as follows:-

	Returns		Operatives		
	Total in trade	Showing shift-work	Total in trade	Total on returns showing shift-work	Number employed on shift-work
Number	1,268	192	172,714	53,938	12,122
Percentage of total in trade	100.0	15.1	100.0	31.2	7.0
Percentage of total on returns showing shift-work				100.0	22.5

Wages and salaries and employers National Insurance contributions paid during the year

## Larger establishments

TABLE 16

	£'000				
	United Kingdom			Great Britain	
	1951	1950	1949	1949	1948
Wages and salaries (a) of					
Operatives	48,629	47,630	43,374	43,163	38,935
Administrative, technical and clerical employees	11,751	11,523	10,254	10,225	9,050
Total	60,380	59,153	53,628	53,388	47,985
Employers' contributions to all National Insurance Schemes	1,739	1,792	1,704	1,694	1,342

(a) Including bonus and commission payments, but excluding payments to outworkers shown below.

£'000				
United Kingdom			Great Britain	
1951	1950	1949	1949	1948
379	418	413	413	354

Plant, machinery and vehicles - acquisitions and disposals, and capital expenditure on new building work

## Larger establishments

TABLE 17

	£'000			
	United Kingdom		Great Britain	
	1951	1949	1949	1948
Plant, machinery and vehicles				
Acquisitions				
Plant and machinery				
New	6,873	5,972	5,951	4,466
Second-hand	314	282	277	323
Vehicles				
New	649	614	613	460
Second-hand	374	236	235	237
Total acquisitions	8,209	7,104	7,076	5,486
Disposals				
Plant and machinery	419	478	477	496
Vehicles	303	180	180	106
Total disposals	723	658	657	602
New building work				
Capital expenditure on new building and other constructional work of a capital nature (excluding site values and development charges)	1,781	2,873	2,862	968



TEXTILES COUNTRY TABLES  
WOOLLEN AND WORSTED TRADE

1951

Summary

Larger establishments

TABLE 18

	England	Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
	£'000	£'000	£'000	£'000	£'000	£'000
Gross output (production)	634,323	623	47,710	682,656	2,750	685,406
Cost of materials and fuel used	504,840	418	34,766	540,023	2,226	542,250
Payment for work done on materials given out	18,439	26	1,040	19,505	1	19,506
Transport payments	1,642	5	210	1,857	22	1,880
Net output	109,402	174	11,695	121,270	500	121,771
Wages and salaries of persons employed	54,950	99	4,988	60,036	345	60,380
	No.	No.	No.	No.	No.	No.
Average number of persons employed (a)	172,269	451	18,018	190,738	1,615	192,353
	£	£	£	£	£	£
Net output per person employed (a)	635	385	649	636	310	633
	£'000	£'000	£'000	£'000	£'000	£'000
Stocks at end of year						
Products on hand for sale and work in progress	66,851	92	6,477	73,420	216	73,636
Materials and fuel	68,198	86	8,178	76,463	283	76,746
	No.	No.	No.	No.	No.	No.
Number of establishments	1,334	10	144	1,488	14	1,502

The values of gross output and of materials and fuel used are derived in the following way:-

	£'000	£'000	£'000	£'000	£'000	£'000
Output of firms in this trade						
Total value of sales (see Table 20)	627,077	599	46,350	674,026	2,726	676,752
Changes in stocks and work in progress (see Table 21)	+ 7,247	+ 24	+ 1,360	+ 8,630	+ 24	+ 8,654
Gross output (production)	634,323	623	47,710	682,656	2,750	685,406
Materials and fuel used by firms in this trade						
Purchases	471,065	406	34,331	505,802	2,149	507,951
Changes in stocks (see Table 21)	+ 33,775	+ 12	+ 435	+ 34,222	+ 77	+ 34,299
Materials and fuel used	504,840	418	34,766	540,023	2,226	542,250

(a) Excluding outworkers but including working proprietors.

## Summary

Small firms in Great Britain (a)

TABLE 19

	England	Wales	Scotland	Great Britain
Number of returns	402	49	65	516
Average number of persons employed (b)				
Males	1,654	125	255	2,034
Females	720	35	138	893
Total	2,374	160	393	2,927

(a) Small firms in Great Britain (employing on the average ten or fewer persons) that made satisfactory returns.

(b) Including working proprietors.



## Sales in the trade: Larger establishments

TABLE 20

	England and Wales		Scotland		Great Britain		Northern Ireland		United Kingdom	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
	Th.lbs.	£'000	Th.lbs.	£'000	Th.lbs.	£'000		£'000	Th.lbs.	£'000
Principal products										
Wool, sorted, blended, scoured or carbonised, but not otherwise treated										
Tops or slubbings (first combed)										
Oil combed	122,806	59,030	1,613	485	124,419	59,515	-	-	124,419	59,515
Crossbred, 50's and below										
Noils										
Oil combed										
Dry combed	3,714	1,560	-	-	3,714	1,560	-	-	3,714	1,560
Recovered wool (shoddy or mungo)	60,676	9,566	-	-	60,676	9,566	-	-	60,676	9,566
Tops or slubbings (first combed)										
Oil combed										
Merino, 60's quality and above	..	(a)	..	(a)	72,155	69,043	-	-	72,155	69,043
Crossbred, above 50's to 58's	36,212	25,892	-	-	36,212	25,892	-	-	36,212	25,892
Dry combed										
Merino, 60's quality and above	13,290	12,188	-	-	13,290	12,188	-	-	13,290	12,188
Crossbred, above 50's to 58's	3,035	2,215	-	-	3,035	2,215	-	-	3,035	2,215
Crossbred, 50's and below	2,402	1,490	-	-	2,402	1,490	-	-	2,402	1,490
Other tops										
Wholly of animal hair (including alpaca, mohair, etc.)	3,833	1,654	-	-	3,833	1,654	-	-	3,833	1,654
Wholly of synthetic fibres (rayon staple, etc.)	9,176	1,475	-	-	9,176	1,475	-	-	9,176	1,475
Tops or slubbings, re-combed	4,133	3,767	-	-	4,133	3,767	-	-	4,133	3,767
Combers' shoddy, burrs, etc.	..	(a)	..	(a)	12,336	1,758	-	-	12,336	1,758
Yarn, other than for carpets and rugs or for hand-knitting										
Woollen (carded only)										
All wool	..	(a)	5,880	4,325	..	..	..	(a)	18,103	11,702
Of wool mixed with other materials	13,801	6,810	763	681	14,564	7,491	-	-	14,564	7,491
Mohair	..	(a)	-	-	..	..	..	(a)	2,365	2,128
Cashmere	110	490	403	1,674	513	2,164	-	-	513	2,164
Other yarn of hair, or of hair mixed with other materials	..	(a)	..	(a)	..	..	..	(a)	6,931	3,583
Hand-knitting yarn, including mending yarn, i.e., skeins, balls and the like, for retail sale										
Alpaca, mohair, cashmere, angora rabbits' and camels' hair	422	1,339	-	-	422	1,339	-	-	422	1,339



TABLE 20(contd.)

	England and Wales		Scotland		Great Britain		Northern Ireland		United Kingdom	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Principal products (contd.)	Th.lbs.	£'000	Th.lbs.	£'000	Th.lbs.	£'000		£'000	Th.lbs.	£'000
Carpet and rug yarn										
All wool, or of wool mixed with other materials										
Worsted	3,010	2,081	..	(a)	..	..	..	(a)	3,480	2,406
Other yarn of wool and hair (including worsted (combed), other than for carpets and rugs or for hand-knitting; woollen and worsted hand-knitting yarn, including mending yarn, i.e. skeins, balls and the like, for retail sale; and woollen and hair carpet and rug yarn)	..	(a)	22,738	16,175	..	..	..	(a)	210,703	182,756
Total yarn of wool and hair	..	(a)	30,291	23,394	..	..	..	(a)	257,083	213,568
Spun rayon, nylon, etc. yarn	1,024	360	-	-	1,024	360	-	-	1,024	360
Manufactures of wool	Th. sq.yds.		Th. sq.yds.		Th. sq.yds.		Th. sq.yds.		Th. sq.yds.	
Fabrics wholly or mainly of alpaca, mohair and cashmere not being pile fabrics; damasks, tapestries, brocades and the like; and wool and mohair plushes and other wire-loom and pile fabrics of wool and mohair	9,897	7,778	537	689	10,434	8,467	-	-	10,434	8,467
Mechanical cloth (other than woven felt)	..	(a)	..	(a)	5,054	5,703	-	-	5,054	5,703
Linings, lastings, etc.	1,002	331	-	-	1,002	331	-	-	1,002	331
Other woven woollen fabrics										
All wool										
Weighing 16 ozs. and over to the square yard	6,315	5,550	2,322	2,362	8,636	7,913	120	112	8,756	8,025
Weighing 12 and under 16 ozs. to the square yard	15,517	10,290	4,724	3,964	20,241	14,254	748	539	20,989	14,793
Of wool mixed with other materials, if known as 'woollens'										
Weighing 16 ozs. and over to the square yard	..	(a)	..	(a)	9,751	4,857	-	-	9,751	4,857
Weighing 8 and under 12 ozs. to the square yard	64,951	25,281	265	244	65,216	25,525	-	-	65,216	25,525

TEXTILES  
COUNTRY TABLES

Weighing under 8 ozs. to the square yard	19,519	6,277	8,994	2,470	28,514	8,747	-	-	28,514	8,747
All wool, weighing under 12 ozs. to the square yard; of wool mixed with other materials, if known as 'woollens' weighing 12 and under 16 ozs. to the square yard; and unclassified woven woollen fabrics	£1,578	43,147	9,833	7,352	101,410	50,499	753	470	102,163	50,969
Other woven worsted fabrics										
All wool										
Weighing 12 ozs. and over to the square yard	7,264	6,878	286	372	7,550	7,250	-	-	7,550	7,250
Of wool mixed with other materials, if known as 'worsted'										
Weighing 8 and under 12 ozs. to the square yard	13,123	9,332	143	123	13,266	9,455	-	-	13,266	9,455
All wool, weighing under 12 ozs. to the square yard; of wool mixed with other materials; if known as 'worsted', weighing 12 ozs. and over to the square yard and under 8 ozs. to the square yard; and unclassified woven worsted fabrics	..	(a)	2,898	2,430	..	..	..	(a)	92,668	73,872
Blankets, cot size	Th.pairs 186	259	Th.pairs 11	17	Th.pairs 197	276	-	-	Th.pairs 197	276
Blankets, full size (single or double), and travelling rugs, coverlets, wrappers and shawls (other than knitted)	..	14,659	..	1,109	..	15,768	..	92	..	15,859
Woven wool felt (including asbestos wool felt) for use in the manufacture of paper and board and asbestos sheets	..	(a)	..	(a)	2,847	4,279	-	-	2,847	4,279
Pressed wool felt and other wool felt (including wool needle felt)	..	4,637	-	-	..	4,637	-	-	..	4,637
Other manufactures of wool (including flags and banners of wool bunting), except carpets and rugs, clothing, smallwares and flocks	..	(a)	..	(a)	..	511	-	-	..	511
Wool waste other than combers' waste	..	(a)	1,647	181	..	..	..	(a)	31,061	6,746
Total goods made for sale		(a)		45,669		..		(a)		654,353
Work done for the trade or on commission (b)										
Wool sorting, blending, scouring and carbonising		1,031		28		1,059		-		1,059
Wool combing		6,996		-		6,996		-		6,996
Wool re-combing		836		-		836		-		836

WOOLLEN AND WORSTED  
COUNTRY TABLES



TABLE 20 (contd.)

	England and Wales		Scotland		Great Britain		Northern Ireland		United Kingdom	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Principal products (contd.)		£'000		£'000		£'000		£'000		£'000
Work done for the trade or on commission (b) (contd.)										
Woollen spinning		911		(a)		..		(a)		1,120
Worsted spinning		1,212		(a)		..		(a)		1,268
Winding and warping		179		30		209		-		209
Other work done for the trade, including weaving		3,268		216		3,484		-		3,484
Total work done for the trade or on commission		(a)		448		..		(a)		14,972
Total principal products		(a)		46,117		..		(a)		669,326
Other output	Th.lbs.				Th.lbs.				Th.lbs.	
Wool rags, dyed, carbonised, etc.	3,766	355	-	-	3,766	355	-	-	3,766	355
Wool flocks	3,668	126	-	-	3,668	126	-	-	3,668	126
Carpets, carpeting and floor rugs of wool (including those on a wool or jute base) and mohair and pile fabric rugs	Th. sq.yds.				Th. sq.yds.				Th. sq.yds.	
361	480	-	-	361	480	-	-	361	480	
Piece goods										
Of cotton and of silk (including mixtures)	..	(a)	..	(a)	3,382	1,398	-	-	3,382	1,398
Of rayon, nylon, etc.										
Wholly of continuous filament yarn	667	115	-	-	667	115	-	-	667	115
Other, including mixtures	3,928	1,184	-	-	3,928	1,184	-	-	3,928	1,184
Hair cloth	Th.lbs. 799	353	-	-	Th.lbs. 799	353	-	-	Th.lbs. 799	353
Felt, other than wool felt, wholly or partly of animal hair, including needle felt	Th. sq.yds. 994	546	-	-	Th. sq.yds. 994	546	-	-	Th. sq.yds. 994	546
Manufactures of felt	..	384	-	-	..	384	-	-	..	384
Other goods	..	(a)	..	(a)	..	1,204	-	-	..	1,204
Cotton, silk, rayon, nylon and other waste	..	(a)	..	15	..	..	..	(a)	..	863
Work done (b)		372		47		419		-		419
Total		627,676		46,350		674,026		2,726		676,752

(a) Owing to the risk of disclosure of information relating to individual firms separate particulars cannot be given.  
 (b) Amount charged.



Stocks of products on hand for sale and work in progress,  
and stocks of materials and fuel

## Larger establishments

£'000

TABLE 21

		England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Products on hand for sale	{ at beginning of year	29,745	1,885	31,630	99	31,729
	{ at end of year	37,405	3,160	40,565	113	40,679
Work in progress	{ at beginning of year	29,927	3,233	33,160	93	33,253
	{ at end of year	29,537	3,317	32,854	103	32,957
Total products on hand for sale and work in progress	{ at beginning of year	59,672	5,118	64,790	192	64,982
	{ at end of year	66,942	6,477	73,420	216	73,636
Materials and fuel	{ at beginning of year	102,071	8,613	110,685	360	111,045
	{ at end of year	68,284	8,178	76,463	283	76,746

## Employment in September

## Larger establishments (a) (b)

TABLE 22

## (i) Operatives

Number

	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Males					
Under 18	3,543	520	4,063	78	4,141
All ages	68,235	6,149	74,384	657	75,041
Females					
Under 18	9,325	1,542	10,867	113	10,980
All ages	88,621	9,709	98,330	792	99,122
Total					
Under 18	12,868	2,062	14,930	191	15,121
All ages	156,856	15,858	172,714	1,449	174,163

## (ii) Administrative, technical and clerical employees

Number

	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Males					
Under 18	262	27	289	1	290
All ages	10,241	1,146	11,387	91	11,478
Females					
Under 18	749	119	868	5	873
All ages	4,416	634	5,050	39	5,089
Total					
Under 18	1,011	146	1,157	6	1,163
All ages (c)	14,657	1,780	16,437	130	16,567

(continued overleaf)



TABLE 22 (contd.)

	(iii) Total employees					Number
	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom	
Males						
Under 18	3,805	547	4,352	79	4,431	
All ages	78,476	7,295	85,771	748	86,519	
Females						
Under 18	10,074	1,661	11,735	118	11,853	
All ages	93,037	10,343	103,380	831	104,211	
Total						
Under 18	13,879	2,208	16,087	197	16,284	
All ages (c)	171,513	17,638	189,151	1,579	190,730	

(a) Excluded employees. The number of persons employed at the larger establishments in this trade but not included in the above tables or in any other Census of Production report (employees in Great Britain engaged, for example, in merchandising and in Northern Ireland canteen and welfare workers) are shown in Table 22(v) below.

(b) Number employed in the week ended September 22, 1951.

(c) Working proprietors. In addition working proprietors, shown in Table 22(iv) below, were engaged in this trade in larger establishments.

	(iv) Working proprietors					Number
	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom	
Males	151	19	170	20	190	
Females	8	-	8	-	8	
Total	159	19	178	20	198	

	(v) Excluded employees					Number
	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom	
Canteen workers						
Males	(d)	(d)	..	(d)	88	
Females	(d)	(d)	..	(d)	2,197	
Total	2,136	134	2,270	15	2,285	
Other workers						
Males	540	38	576	-	576	
Females	277	88	365	2	367	
Total	817	124	941	2	943	
Total excluded employees	2,953	258	3,211	17	3,228	

(d) Owing to the risk of disclosure of information relating to individual firms separate particulars cannot be given.

Average employment  
Larger establishments (a)

TABLE 23

	Average employment Larger establishments (a)					Number
	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom	
Operatives	157,944	16,208	174,152	1,469	175,621	
Administrative, technical and clerical employees	14,617	1,791	16,408	126	16,534	
Total	172,561	17,999	190,560	1,595	192,155	

Outworkers. In addition to the employees shown above the firms in this trade employed outworkers whose numbers are shown below.

	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Males	6	1,889	1,895	-	1,895
Females	1,796	560	2,356	4	2,360
Total	1,802	2,449	4,251	4	4,255

(a) For employment in small firms in Great Britain (employing on the average ten or fewer persons) that made satisfactory returns see Table 19.

Wages and salaries and employers' National Insurance  
contributions paid during the year  
Larger establishments

TABLE 24

	Wages and salaries and employers' National Insurance contributions paid during the year Larger establishments					£'000
	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom	
Wages and salaries (a) of						
Operatives	44,326	4,008	48,334	295	48,629	
Administrative, technical and clerical employees	10,722	980	11,702	49	11,751	
Total	55,048	4,988	60,036	345	60,380	
Employers' contributions to all National Insurance Schemes	1,566	159	1,725	14	1,739	

(a) Including bonus and commission payments but excluding payments to outworkers shown below.

£'000				
England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
227	152	379	-	379



Plant, machinery and vehicles - acquisitions and disposals,  
and capital expenditure on new building work

## Larger establishments

£'000

	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Plant, machinery and vehicles					
Acquisitions					
Plant and machinery					
New	6,412	402	6,815	58	6,873
Second-hand	293	19	312	2	314
Vehicles					
New	611	35	646	2	649
Second-hand	366	7	373	1	374
Total acquisitions	7,681	465	8,146	63	8,209
Disposals					
Plant and machinery					
New	397	20	417	3	419
Second-hand	292	11	303	1	303
Vehicles					
New					
Second-hand					
Total disposals	688	31	719	3	723
New building work					
Capital expenditure on new building and other constructional work of a capital nature (excluding site values and development charges)	1,679	91	1,770	11	1,781

Payments for transport services for finished goods  
sold and materials and fuel purchased

## Larger establishments

£'000

	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Amounts paid to other firms and undertakings	1,555	203	1,759	22	1,781
Amount paid or credited to firms' own separate transport organisations	92	6	99	-	99
Total	1,648	210	1,857	22	1,880

## GENERAL NOTES

The following brief notes refer to Great Britain and, unless otherwise stated, to the census of production for 1951. Reference should be made to the separate booklet in this series entitled 'The Report on the Census of Production for 1951: Introductory Notes' (price 1s.6d. net) for particulars of the minor differences in the Northern Ireland censuses and other details about the census of production.

**Trade classification:** Establishments are classified to trades according to the nature of their output. Certain products, called principal products, are identified as characteristic of the production of individual trades, the principal products for a given trade being of a similar nature or commonly associated in production. An establishment is classified to a trade if its output of principal products of that trade accounted for a greater proportion of the value of its output than did its output of principal products of any other trade.

**The establishment:** The basic unit for the collection of information is generally the establishment which in most cases comprises the whole of the premises under the same ownership or management at a particular address (e.g., a factory). Offices, warehouses and other ancillary places of business situated apart from the producing works are included in the return for the works.

**Larger establishments and small firms:** Larger establishments are those which employed more than 10 persons on the average during the year; small firms are those employing on the average 10 or fewer persons.

**Working proprietors** are proprietors of businesses other than limited companies, and include members of their families who work in the business without receiving fixed wages or salaries. Any persons working less than half the normal hours are excluded.

**Persons employed:** Administrative employees include directors other than those paid by fee only, managers, superintendents and works foremen; research, experimental, development, technical and design employees (other than operatives); draughtsmen and tracers; and travellers and office (including works office) employees. Operatives include all other classes of employees, that is, broadly speaking, all manual workers.

All these figures exclude canteen employees and persons engaged in merchandising or any other activity not covered by a firm's return who are shown separately as excluded employees.

Figures for employees include only persons on the pay-roll (that is whose National Insurance cards were held by the firm), whether full-time or part-time employees.

**Outworkers,** who are shown separately, are persons employed by the firm who work on materials supplied by the firm, but do not work on the premises; operatives directly employed who work out of doors (e.g., maintenance workers) and sub-contractors are not included as outworkers.

**Wages and salaries** include all overtime payments, bonuses, and commissions, without any deduction for income tax, insurance, contributory pensions, etc. They exclude payments to working proprietors.

**Capital expenditure:** Expenditure on plant, machinery and vehicles relates to expenditure charged to capital account during the year of return, including transport and installation costs involved. Expenditure on new building work is similarly that charged to capital account during the year.

**Materials and fuel:** The cost of materials and fuel purchased includes all purchases during the year of materials for use in production and of fuel (including oil, gas, and electricity for all purposes, including heating and lighting); all packing materials, including the full cost of returnable containers when first purchased; workshop materials; office materials; water charges; materials for repairs to firms' own buildings, plant and vehicles when carried out by

their own work people included in the return; and consumable tools and parts for machinery purchased as replacement. Materials, components, etc. which were purchased and re-sold in the same state (that is, merchanted or factored goods) were excluded. For 1951 firms in many trades were required to state the quantities of certain purchased materials used.

**Stocks and work in progress:** Firms were instructed to give these at income tax value.

**Output:** Sales means sales during the year of goods made in the establishment covered by the return or made on commission for it, whether produced in the year or not. For all post-war censuses the value of sales was the net selling value, that is, the amount charged to customers, whether on an ex-works or delivered basis, and net of any trade discounts, agents' commissions, allowances for returnable cases, purchase tax, etc. For goods charged on a delivered basis to customers overseas, firms were required to give the f.o.b. value.

**Gross output of a trade** is the total value of goods made and other work done during the year; this means the value of sales and work done during the year adjusted for changes in the values of stocks.

**Net output** is the amount left after deducting from the value of gross output the aggregate of the cost of materials and fuel used and the amount paid for work given out and, for 1951, any transport payments included in firms' returns. This represents the value added to materials by the process of production, and constitutes the fund from which wages, salaries, rents, rates and taxes, advertising and other selling expenses and all other similar charges have to be met as well as depreciation and profits.

**Customs and Excise Duty** paid on materials purchased is included in the cost of materials, but where it is especially important separate figures are shown.

**Later reports:** Reports will be published later summarising the main census results and giving information about power equipment and fuel consumption.

**Disclosure of information:** The report has been prepared in conformity with the disclosure provisions of the Statistics of Trade Act, 1947. Figures have been combined with others of a similar nature in certain cases where publication of separate details might disclose the operations of an individual firm.

**Symbols used:** '..' for 'Not available', '-' for 'Nil or negligible (less than half the final digit shown)'

The figures in the tables have been rounded off to the nearest final digit, and there may be an apparent slight discrepancy between the sums of the constituent items and the totals shown.

Tables 1 to 17 show figures for the United Kingdom (or Great Britain).

Tables 18 to 26 are country tables and give, where practicable, separate details for England and Wales, Scotland and Northern Ireland.

Table 6: Specialist producers refer to those establishments 50 per cent. or more of whose total output by value is accounted for by the groups of products specified.

Table 8 (or 8(i)) shows the total sales of principal products of the trade, and includes therefore the sales of these products returned by establishments whether classified to the trade or to other trades. Those produced by establishments in other trades are shown in Table 9.

Table 10 shows the sales by establishments in the trade of products other than those regarded as principal products of the trade.

Table 20 (or 20(i)) shows sales by establishments in the trade of products, whether principal products or not, and broadly the aggregates here are equal to the corresponding figures in Table 8 (or 8(i)) less those in Table 9, plus those in Table 10.



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