

This Report on the Woollen and Worsted Industry relates to establishments engaged wholly or mainly in sorting, cleaning, blending, etc and combing virgin wool and fine animal hair and making tops (including tops of man-made fibre) and carded sliver, converting tow to tops without combing; processing of laps and noils and other soft waste; spinning of yarns on the worsted systems and weaving worsted fabrics of such yarns; spinning woollen yarn on the woollen system, weaving woollen fabric of such yarns and making-up blankets, travelling rugs, etc of woollen yarns; manufacturing mungo and shoddy from woollen and worsted fabric waste and processing hard waste for use in woollen spinning; weaving wool felt and manufacturing pressed felt of wool or hair. The weaving of narrow fabrics and the manufacture of needleloom felt are excluded.

This industry corresponds to minimum list heading 414 in the Standard Industrial Classification (Revised 1968) which has been used for the first time as a basis of classification in the 1968 Census.

The industry corresponds to the Woollen and Worsted Industry (Part 78) in the Reports on the last detailed Census of Production for 1963 except that the sorting and cleaning of woollen, worsted and hair rags and waste formerly shown in this industry are now out of scope of the Census.

Throughout this Report, the figures given for 1963 have been reclassified, as far as possible, according to the Standard Industrial Classification (Revised 1968) so that data for 1963 and 1968 are on the same industrial basis. However the reclassification of small firms, which provided limited information only, has been arbitrary.

TREATMENT OF FABRICS BACKED WITH PLASTIC FOAM AND FABRIC TO FABRIC BONDED MATERIALS

Fabrics backed with plastic foam and fabric to fabric bonded materials are shown as principal products of the same industry as the main fabric rather than the material used for the backing or bonding. Thus, knitted fabrics backed with plastic foam and knitted fabric to fabric bonded materials are shown in Table 5 of the report on the Hosiery and Other Knitted Goods Industry (Part 104), and the corresponding table of this report and the report on the Weaving of Cotton, Linen and Man-made Fibres Industry (Part 100) show respectively sales of woollen or worsted fabrics backed with plastic foam and woollen and worsted fabric to fabric bonded materials; and sales of cotton fabrics backed with plastic foam and cotton fabric to fabric bonded materials. Total sales of all fabrics backed with plastic foam, fabric to fabric bonded materials and finished cloth of cotton, linen and man-made fibres, reported in the census, together with those reported by merchant converters in a separate inquiry, are brought together in a supplement to Table 5 in the report on the Weaving of Cotton, Linen and man-made Fibres Industry (Part 100).

Sales of fabrics backed with plastic foam and fabric to fabric bonded materials were not taken into account in classifying returns to the three textile industries in which they are shown.

The foambacking of fabric on commission and fabric to fabric bonding on commission were classified to the Textile Finishing Industry (Part 110).

METHOD OF CLASSIFICATION

The classification of returns to this industry followed the standard procedure as outlined in the notes on page (i) except for the special treatment of fabrics backed with plastic foam and fabric to fabric bonded materials referred to above. The classification of returns to sub-divisions of the industry followed the standard procedure, except that returns initially classified to the sub-division 'Combers' were transferred to the sub-division 'Top makers' if the firms reported that they did not comb or re-comb tops or slubbings on their own account.

In interpreting the data in the tables it is essential to bear in mind the notes and definitions which appear on pages (i) to (iv).

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- (c) Including services rendered to other organisations (amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered).
- (d) Administrative, technical and clerical employees.
- (e) Excluding expenditure for establishments not yet in production.
- (f) Acquisitions less disposals.

TABLE 1 Industry summary, 1963 and 1968
United Kingdom (a) (b)

	Unit	All establishments		
		1963	1968	
Number of enterprises	No.	1,191	965	
Number of establishments	"	1,706	1,439	
Gross output	£'000	616,744	581,960	
Net output	"	185,410	200,315	
Net output per head	£	1,047	1,415	
Sales and work done	goods produced and work done (c)	£'000	581,967	558,634
	merchanted goods and canteen takings	"	28,128	18,830
Purchases	materials for use in production and packaging and fuel	"	382,185	331,798
	goods for merchandising and canteen purchases	"	26,357	17,260
Payments to other organisations	for work done on materials given out for transport	"	31,925	32,888
	by road	"	3,632	3,168
	by rail and other means excluding postal services	"		
Stocks and work in progress				
Total stocks and work in progress	change during year	"	+ 19,414	+ 8,839
	at end of year	"	180,366	165,737
Goods on hand for sale	change during year	"	+ 1,176	+ 650
	at end of year	"	46,554	52,109
Work in progress	change during year	"	+ 5,472	+ 3,847
	at end of year	"	44,035	43,375
Materials, stores and fuel	change during year	"	+ 12,766	+ 4,342
	at end of year	"	89,777	70,253
Number employed on average during the year	total, including working proprietors	Th.	177.1	141.6
	operatives	"	156.2	122.7
	other employees (d)	"	19.6	17.9
Wages and salaries	of operatives	£'000	78,734	87,270
	of other employees (d)	"	19,019	22,092
Capital expenditure (e)				
Total	"	13,079	15,575	
New building work	"	2,247	2,235	
Land and existing buildings (f)	"	17	207	
Plant and machinery (f)	"	10,086	12,682	
Vehicles (f)	"	764	864	

(a) For 1968, estimates for establishments not making satisfactory returns and for small establishments, from which only employment data were collected, accounted for 5 per cent. of the total figures in which they were incorporated: of this, unsatisfactory returns accounted for 1 per cent. For 1963 the comparable figures were 4 per cent. and 1 per cent. respectively.

(b) The following information relates to small establishments (employing fewer than 25 persons) in this industry. It includes an estimate for small establishments not making satisfactory returns.

	1963	1968
Number of establishments	642	586
Average number employed:		
Working proprietors	828	579
Other persons employed	6,030	5,782

Footnotes continued on page 101/2.

TABLE 2 Analysis by size of establishment within the industry, 1968

(i) Output and employment

All establishments: United Kingdom

Number employed on average during the year by the establishment (a)	Establishments	Enterprises (b)	Total number employed on average during the year (a)	Gross output	Net output	Net output per head
1-5	142	138	435	..	..	..
6-10	147	142	1,169	..	..	..
11-24	257	240	4,452	..	..	..
25-49	168	144	6,362	37,614	9,079	1,427
50-99	218	179	16,148	71,837	21,890	1,356
100-199	236	174	33,605	128,611	47,330	1,408
200-299	103	77	24,254	96,563	34,822	1,436
300-399	53	41	17,929	77,405	26,229	1,463
400-499	25	20	11,227	39,353	15,281	1,361
500-749	15	12	8,699	37,163	13,397	1,540
750-999	6	6	5,401	19,459	7,065	1,308
1,000 and over	6	4	9,995	39,032	13,994	1,400
Unsatisfactory returns	63	59	1,915	..	..	..
Total	1,439	965	141,591	581,960(c)	200,315(c)	1,415(c)

(ii) Employees, wages and salaries

All establishments: United Kingdom

Number employed on average during the year by the establishment (a)	Employees		Wages and salaries		Wages and salaries per head	
	Operatives	Others (d)	Operatives	Others (d)	Operatives	Others (d)
1-5	..	..	..	..	..	..
6-10	..	..	..	..	..	..
11-24	..	..	..	..	..	..
25-49	5,384	883	3,807	1,179	707	1,335
50-99	14,101	1,912	9,552	2,448	677	1,280
100-199	29,631	3,857	20,740	4,783	700	1,240
200-299	21,150	3,064	15,429	3,806	730	1,242
300-399	15,584	2,338	11,192	3,091	718	1,322
400-499	9,537	1,690	6,703	1,946	703	1,152
500-749	7,658	1,035	5,591	1,212	730	1,171
750-999	4,722	679	3,073	807	651	1,188
1,000 and over	8,519	1,475	6,621	1,647	777	1,116
Unsatisfactory returns	..	..	..	..	..	..
Total	122,716(c)	17,882(c)	87,270(c)	22,092(c)	711(c)	1,235(c)

(a) Including working proprietors.

(b) The sum of the figures for the size groups exceeds the total for the industry to the extent that enterprises made returns for establishments in more than one size group.

(c) Including estimates for establishments employing fewer than 25 persons and for establishments not making satisfactory returns.

(d) Administrative, technical and clerical employees.

TABLE 3 Percentage analysis of employees, by age and sex, 1969 (a)

All establishments: United Kingdom

Ages	Males	Females	All employees
	Per cent.	Per cent.	Per cent.
Under 18	3	4	7
18 and over	49	44	93
All ages	52	48	100

Source: Department of Employment

(a) The percentages relate to the numbers employed (excluding working proprietors) at June 1969, the earliest date for which the information is available on the basis of the Standard Industrial Classification, (Revised 1968).

Footnotes to Table 4.

- (a) Some establishments employing fewer than 25 persons were included in returns for larger establishments. These amounted to 61 establishments in 1968 and 81 in 1963.
- (b) The method of classifying returns to sub-divisions of the industry is explained in the notes; the characteristic products of each sub-division are identified in Table 5.
- (c) Excluding establishments mainly engaged in weaving on commission such establishments being classified to the sub-division 'Winding and warping, weaving and other work done'.
- (d) Including establishments which purchase wool, sort, blend, or scour it, and give it out to be combed on commission.
- (e) The figures shown in this sub-division for 1963 and 1968 are not strictly comparable as the sorting and cleaning of woollen, worsted and hair rags are outside the scope of the Census for 1968 but were not excluded for 1963.
- (f) The sum of the figures for the sub-divisions exceeds the total for the industry to the extent that enterprises made returns for more than one sub-division.
- (g) Including services rendered to other organisations (amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered).
- (h) Direct sales of goods (excluding canteen takings) made to, and work done for, the general public by larger establishments are included. These amounted to £947,000 in 1968. Similar information is not available for 1963.
- (i) Characteristic products relate only to sub-divisions of the industry.
- (j) For sub-divisions of the industry, this is the ratio of sales of characteristic products to total sales of goods produced and work done. For the industry as a whole, this is the ratio of total sales of principal products by the industry to total sales of goods produced and work done.
- (k) Administrative, technical and clerical employees.
- (l) Excluding expenditure for establishments not yet in production.
- (m) Acquisitions less disposals.

TABLE 4 Analysis of larger establishments, 1963 and 1968
Establishments employing 25 or more persons: Analysis of returns received, United Kingdom (a)

	Unit	Sub-divisions of the industry (b)												
		Wool sorting, cleaning etc and combing and topmaking				Worsted spinning			Worsted weaving (c)		Wool recovery			
		Wool sorted, blended, etc		Top makers (d)		Combers	Spun worsted yarns		Spun, semi-worsted yarns	Woven worsted fabric		Recovered wool (shoddy or mungo) and wool and hair rags and waste (dyed, etc) (e)		
		11	12	13	20		30	40						
		1963	1968	1963	1968	1963	1968	1968	1963	1968	1963	1968		
Number of enterprises (f)	No.	21	18	20	14	41	25	133	94	4	130	83	27	16
Number of establishments	"	38	29	30	19	83	46	230	184	4	229	171	33	20
Gross output	£'000	23,107	16,035	67,665	57,808	62,855	47,684	159,519	146,597	3,154	95,969	85,962	8,820	3,549
Net output	"	5,296	2,693	3,224	5,605	19,314	14,784	45,811	48,203	1,252	32,227	32,999	2,112	1,232
Net output per head	£	1,986	2,065	2,198	3,336	1,323	1,913	934	1,206	1,188	930	1,370	1,170	1,446
Sales and work done	£'000	goods produced and work done (g) (h)		61,269	49,189	59,514	46,201	155,032	144,726	3,166	94,061	84,149	4,651	3,263
		merchanted goods and canteen takings		5,744	7,865	3,005	1,763	2,371	913	39	1,744	1,352	4,018	277
Sales of characteristic products	"	11,491	11,010	56,839	46,697	51,162	40,371	138,635	122,810	3,078	78,583	72,683	3,816	2,811
Index of specialisation (j)	Per cent.	75	88	93	95	86	87	89	85	97	84	86	82	86
Purchases	£'000	materials for use in production and packaging, and fuel		53,722	38,092	41,162	27,265	106,893	91,252	1,761	55,087	45,835	3,391	2,064
		goods for merchandising and canteen purchases		6,394	7,424	3,031	1,623	1,692	868	34	1,627	1,236	3,115	149
Payments to other organisations	"	for work done on materials given out		6,547	6,367	2,306	1,555	5,972	7,144	45	7,347	6,538	156	63
		for transport by road		190	320	233	273	907	754	13	347	315	124	24
		by rail and other means excluding postal services		37	6										5	413	34	11
Stocks and work in progress														
Goods on hand for sale	"	change during year		+ 208	+ 556	- 274	- 290	+ 510	+ 395	- 75	- 733	- 446	+ 142	+ 12
		at end of year		4,028	6,146	4,224	4,287	10,708	10,154	211	12,306	11,807	780	268
Work in progress	"	change during year		+ 442	+ 199	+ 610	+ 11	+ 1,606	+ 563	+ 25	+ 896	+ 907	+ 9	- 4
		at end of year		2,466	2,529	2,770	967	12,993	11,124	261	10,635	9,928	127	78
Materials, stores and fuel	"	change during year		+ 2,719	+ 5	+ 3,191	- 2,180	+ 1,755	+ 2,038	- 48	+ 666	+ 996	+ 78	- 5
		at end of year		15,418	8,651	13,124	5,309	18,475	16,893	607	11,137	9,715	674	561
Number employed on average during the year	No.	total including working proprietors		1,467	1,680	14,597	7,730	49,063	39,963	1,054	34,659	24,093	1,805	852
		operatives		1,069	1,214	13,180	6,919	43,769	34,811	923	30,662	20,992	1,507	715
		other employees (k)		372	452	1,408	807	5,200	5,084	128	3,923	3,036	263	119
Wages and salaries	£'000	of operatives		783	1,044	8,493	6,530	19,234	22,753	595	15,142	14,486	759	510
		of other employees (k)		488	665	1,497	1,077	4,784	5,749	141	3,859	3,774	269	185
Wages and salaries per head	£	operatives		732	860	644	944	439	654	644	494	690	504	713
		other employees (k)		1,311	1,472	1,064	1,335	920	1,131	1,098	984	1,243	1,024	1,556
Capital expenditure (l)														
New building work	£'000	1	9	9	4	147	85	686	310	1	585	352	17	21
Land and existing buildings	"	acquisitions		-	-	1	-	179	105	-	51	16	-	2
		disposals		7(m)	-	31	22(m)	61	222	-	318	232	13	-
Plant and machinery	"	acquisitions		31	48	1,190	1,032	3,633	4,313	124(m)	1,634	1,455	66	51
		disposals		4	1	198	67	167	321		70	126	8	3
Vehicles	"	acquisitions		60	72	105	89	256	395	7	178	202	68	32
		disposals		20	34	28	37	110	177	3	66	70	25	12

Continued on next page.

TABLE 4 (continued)

	Unit	Sub-divisions of the industry (b)										Total				
		Woollen spinning and weaving (c)				Pressed felt		Winding and warping, weaving and other work done								
		Spun woollen yarns 51		Woven woollen blankets, travelling rugs, etc 52		Other woven woollen fabrics 53		Mechanical cloths and woven felt 54		60		55				
		1963	1968	1963	1968	1963	1968	1963	1968	1963	1968	1963	1968			
Number of enterprises (f)	No.	83	80	32	24	162	135	8	6	5	7	48	44	630	480	
Number of establishments	"	108	108	53	39	237	200	9	6	11	16	56	49	1,117	891	
Gross output	£'000	62,399	72,001	17,650	14,475	79,764	87,087	4,734	3,900	4,249	9,555	3,165	4,995	589,895	552,803	
Net output	"	19,174	24,792	7,117	6,582	36,443	41,507	2,241	2,332	1,984	4,825	2,397	3,473	177,339	190,279	
Net output per head	£	1,323	1,717	1,001	1,393	984	1,301	1,274	2,144	1,532	1,925	697	1,100	1,047	1,415	
Sales and work done	£'000	goods produced and work done (g) (h)	60,522	70,046	17,016	14,237	77,912	85,659	4,273	3,775	3,969	9,102	3,127	4,662	556,632	530,645
		merchanted goods and canteen takings	1,109	550	144	92	840	610	490	187	240	515	23	332	26,903	17,886
Sales of characteristic products	"	53,066	64,638	12,726	11,853	68,531	74,606	4,020	2,018	3,295	5,025	2,696	3,593	(i)	(i)	
Index of specialisation (j)	Per cent.	88	92	75	83	88	87	94	53	83	55	86	77	98	97	
Purchases	£'000	materials for use in production and packaging, and fuel	41,206	45,408	9,828	7,193	38,735	40,626	1,911	1,383	2,014	4,180	615	983	365,548	315,174
		goods for merchandising and canteen purchases	994	455	137	102	706	500	448	198	248	470	24	263	25,210	16,396
Payments to other organisations	"	for work done on materials given out	1,881	2,859	812	456	4,690	5,237	161	60	51	21	130	180	30,534	31,241
		by transport	372	330	185	149	573	548	22	12	51	64	12	62	3,473	3,009
		by road														
by rail and other means excluding postal services	75	65	2	6	6	6	6	6	6	6	6	6	6	6	6	
Stocks and work in progress	"	+ 333	+ 383	+ 208	+ 64	+ 82	- 15	- 19	- 48	+ 10	- 83	+ 17	+ 4	+ 1,125	+ 617	
Goods on hand for sale	"	change during year	2,348	3,385	1,858	2,044	5,733	8,151	423	274	272	627	35	128	44,527	49,498
		at end of year	+ 435	+ 1,022	+ 282	+ 82	+ 930	+ 833	- 10	- 13	+ 30	+ 21	- 2	- 3	+ 5,234	+ 3,654
Work in progress	"	change during year	3,312	4,345	1,301	1,169	7,691	9,628	401	198	91	491	52	70	42,118	41,202
		at end of year	+ 1,229	+ 1,917	+ 429	+ 73	+ 1,384	+ 1,460	+ 49	+ 88	+ 98	+ 11	+ 13	- 34	+ 12,210	+ 4,125
Materials, stores and fuel	"	change during year	8,945	8,191	2,364	1,575	11,626	12,292	620	665	640	1,304	59	168	85,868	66,733
		at end of year	14,498	14,442	7,110	4,725	37,037	31,903	1,759	1,088	1,295	2,506	3,440	3,157	169,397	134,497
Number employed on average during the year	No.	total, including working proprietors	12,869	12,742	6,365	4,172	32,758	27,711	1,504	943	1,023	2,029	3,175	2,858	150,109	117,034
		operatives	1,573	1,626	729	544	4,218	4,110	255	142	269	473	220	250	18,859	17,054
		other employees (k)	6,623	9,392	3,169	3,000	17,074	19,481	817	711	670	1,706	1,625	2,105	75,652	83,229
Wages and salaries	£'000	of operatives	1,485	2,140	667	729	4,061	5,067	264	264	242	604	179	284	18,281	21,069
		of other employees (k)	515	737	498	719	521	703	543	754	655	841	512	737	504	711
Wages and salaries per head	£	operatives	944	1,316	915	1,340	963	1,233	1,034	1,859	899	1,276	814	1,138	969	1,235
		other employees (k)	292	701	101	256	198	304	61	27	28	23	25	30	2,149	2,123
Capital expenditure (l)	£'000	275	123	2	-	183	85	5	-	9	20	-	-	722	401	
New building work	"	acquisitions	43	16	16	36	193	87	-	-	14	-	-	739	597	
		disposals	1,266	2,074	371	417	1,581	2,255	207	203(m)	89	302	161	583	10,336	12,961
Land and existing buildings	"	acquisitions	103	121	7	9	91	99	2	2	19	15	7	130	689	914
		disposals	156	183	42	42	213	224	15	27	30	74	17	33	1,200	1,424
Plant and machinery	"	acquisitions	66	85	15	17	84	86	11	8	13	51	8	10	469	603
		disposals														

For notes to this table - see page 101/5.

TABLE 5 Sales of principal products of the industry by larger establishments, including sales by establishments classified to other industries, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

Industry sub-division (a)	1963		1968				
	Quantity	Value	Quantity	Value	Enterprises	Entries	
	Th.lb.	£'000	Th.lb.	£'000	Number	Number	
	PREPARATORY PROCESSES						
11	Wool and other animal hair sorted, blended, scoured or carbonised but not otherwise treated						
	Wool, sorted or blended, not scoured	31,642	7,916	29,467	5,141	29	37
	Wool scoured	..	8,989	27,647	6,958	28	34
				1,875			
	Wool and wool by-products carbonised	2,726	645	2,652	709	7	8
	Other animal hair (mohair, cashmere, angora, etc)	2,755	960	3,957	1,350	12	15
40	Woollen, worsted and hair rags carbonised, etc	6,316	748	..	65	5	6
40	Recovered wool (shoddy or mungo)	39,984	3,502	25,222	2,584	26	29
12,13	Tops or slubbings, first combed						
	Of wool						
	Oil combed						
	Merino, 60's quality and above	78,073	36,697	54,171	23,814	21	23
	Other wool, above 50's to 58's	43,971	17,293	29,775	10,010	22	26
	Other wool, 50's and below	26,776	8,866	19,790	5,000	16	19
	Dry combed						
	Merino, 60's quality and above	29,077	14,056	27,086	12,021	17	20
	Other wool, above 50's to 58's	4,286	1,764	4,852	1,685	14	16
	Other wool, 50's and below	1,344	441	3,503	899	9	11
	Of other materials						
	Wholly of animal hair (alpaca, mohair, etc)	10,634	7,042	10,337	8,047	10	13
	Wholly of man-made fibres (nylon, rayon, etc)	21,673	5,973(b)	6,470	2,206	12	13
	Total tops or slubbings, first combed	215,833	92,131	155,983	63,683	..	..
12,13	Tops produced on Pacific converters, turbo-staplers and similar machines	..	(c)	35,595	9,175	7	9
12,13	Tops or slubbings, re-combed	9,230	5,478	14,075	7,452	11	16
12,13	Carded sliver (not for subsequent combing)	..	(d)	1,178	300	10	10
				416			
12,13	Noils						
	Oil combed	18,764	3,911	16,389	3,662	46	62
	Dry combed	5,181	976	4,163	886	22	26
	Combers' shoddy, burrs, etc	9,829	675	9,369	586	34	44

TABLE 5 (continued)

Industry sub-division (a)	1963		1968				
	Quantity	Value	Quantity	Value	Enterprises	Entries	
	Th.lb.	£'000	Th.lb.	£'000	Number	Number	
	SPINNING						
	Yarn, other than for carpets and rugs or for hand-knitting						
51	Woollen (carded only)						
	All wool	28,475	13,653	32,956	18,919	62	75
	Mixtures containing wool	11,515	4,558	5,770	2,507	37	40
	Of man-made fibres (nylon, rayon, etc) spun on the woollen system						
	Synthetic (nylon, etc)	1,999	772	3,196	1,252	16	18
	Other (rayon, etc)	1,664	395	1,144	242	8	8
	Of cashmere spun on the woollen system						
		938	3,024(e)	1,291	4,251	11	13
	Of other hair or of mixtures containing hair spun on the woollen system						
		..	(f)	811	852	7	9
20	Worsted (combed)						
	All wool	107,416	70,225	72,883	50,739	88	115
	Mixtures containing wool	22,771	16,762	29,966	20,900	63	79
	Of man-made fibres (nylon, rayon, etc) spun on the worsted system						
	Synthetic (nylon, etc)	18,412	13,931	35,095	21,190	34	47
	Other (rayon, etc)	..	528	469	267	11	11
				85			
	Of mohair spun on the worsted system						
		9,640	6,904(g)	3,417	3,441	15	18
	Of other hair or of mixtures containing hair spun on the worsted system						
				4,012	3,141	15	21
				24			
70	Semi-worsted (processed from carded sliver) of wool, mixtures containing wool or of man-made fibres (nylon, rayon, etc) spun on the semi-worsted system						
		..	(d)	4,936	2,502	6	6
	Hand-knitting yarn (including mending yarn)						
51	Woollen (carded only)						
	All wool						
	In skeins, balls and the like for retail sale	5,139	4,525	4,617	4,188	18	20
	Other	549	302	405	247	9	9
				109			
	Mixtures containing wool	601	419	729	582	10	10
	Of man-made fibres (nylon, rayon, etc) and mohair, cashmere, angora, etc						
		2,133	2,645(h)	760	1,021	*	5
20	Worsted (combed)						
	All wool						
	In skeins, balls and the like for retail sale	26,310	20,221	12,902	10,221	25	26
	Other	8,281	4,597	2,756	1,369	13	16

Continued on next page.

TABLE 5 (continued)

Industry sub-division (a)	1963		1968			
	Quantity	Value	Quantity	Value	Enterprises	Entries
	Th.lb.	£'000	Th.lb.	£'000	Number	Number
	SPINNING (continued)					
	Hand-knitting yarn (including mending yarn) (continued)					
20	Worsted (combed) (continued)					
	Mixtures containing wool					
	In skeins, balls and the like for retail sale					
	5,984	5,895	3,816	3,358	20	21
	Other					
	472	277	337	151	10	11
	Of man-made fibres (nylon, rayon, etc)					
	Synthetic (nylon, etc)					
	In skeins, balls and the like for retail sale					
	4,163	3,848	9,446	8,085	26	27
	Other					
	1,278	819	1,654	806	10	12
	Other (rayon, etc)					
	..	(i)	28.7	65	*	*
70	Mohair, cashmere, angora, etc					
	Semi-worsted (processed from carded sliver)					
	All wool					
	..	(d)	547	347	*	*
	Mixtures containing wool					
	..	(d)	1,135	686	*	*
	Carpet and rug yarn					
	All wool or mixtures containing wool					
51	Woollen (carded only)					
	96,575	31,743	103,291	34,102	44	52
20	Worsted (combed)					
	..	2,111	3,943	1,655	13	14
70	Semi-worsted (processed from carded sliver)					
	..	(d)	1,178	406	*	*
20,51,70	Of hair or mixtures containing hair spun on the woollen, worsted or semi-worsted systems					
	1,336	565	670	267	7	8
	Of man-made fibres spun on the woollen, worsted or semi-worsted systems					
	4,752	969	14,931	3,966	22	27
	..	..	..	596	..	..
	Total yarn of wool and hair (including yarn of man-made fibres spun on the woollen, worsted and semi-worsted systems)					
	360,402	207,048	359,887	202,497	..	..
	..	2,638	..	814	..	..
	MANUFACTURES OF WOOL (excluding fabrics backed with plastic foam and fabric to fabric bonded materials)					
30	Fabrics, not being pile fabrics or chenille fabrics, wholly or mainly of					
	Th.sq.yds.		Th.sq.yds.			
	1,710	1,659	3,247	2,862	11	11
	Mohair					
	205	492	389	660	8	9
	Cashmere					
	648	585	34.1	56	*	*
	Angora					
	..	..	986	983	7	8
	Other hair					
30	Damasks, tapestries, brocades and the like					
	551	500	..	341	*	*
30	Plushes and other pile fabrics and chenille fabrics					
	4,522	3,542	1,848	2,056	11	12
	..	574	..	616	..	..

TABLE 5 (continued)

Industry sub-division (a)	1963		1968			
	Quantity	Value	Quantity	Value	Enterprises	Entries
	Th.sq.yds.	£'000	Th.sq.yds.	£'000	Number	Number
	MANUFACTURES OF WOOL (excluding fabrics backed with plastic foam and fabric to fabric bonded materials) (continued)					
54	Mechanical cloth (other than woven felt)					
	1,481	1,503	1,015	1,025	14	15
	..	430	..	977		
30	Inter-linings (including hair inter-linings)					
	8,647	2,018	7,678	2,047	8	8
	..	290				
53	Bunting					
	..	(d)	508	138	*	*
53	Other woven woollen fabrics					
	Containing 90 per cent. or more wool					
	Weighing 16 oz. and over to the square yard					
	14,189	8,680	14,677	10,575	78	96
	Weighing 12 and under 16 oz. to the square yard					
	21,827	13,328	25,412	16,621	114	136
	Weighing 8 and under 12 oz. to the square yard					
	30,668	16,250	24,594	14,346	105	129
	Weighing under 8 oz. to the square yard					
	16,063	5,582	17,117	6,548	64	74
	Total other woven woollen fabrics containing 90 per cent. or more wool					
	82,747	43,840	81,800	48,090	..	..
	Containing less than 90 per cent. wool					
	Weighing 16 oz. and over to the square yard					
	13,889	5,791	11,942	5,711	57	66
	Weighing 12 and under 16 oz. to the square yard					
	23,155	9,230	19,662	9,480	73	84
	Weighing 8 and under 12 oz. to the square yard					
	31,128	10,783	23,379	10,147	76	84
	Weighing under 8 oz. to the square yard					
	15,345	5,499	13,721	5,241	45	46
	Total other woven woollen fabrics containing less than 90 per cent. wool					
	83,516	31,302	68,703	30,579	..	..
30	Other woven worsted fabrics					
	Containing 90 per cent. or more wool					
	Weighing 12 oz. and over to the square yard					
	12,265	10,003	14,351	12,920	57	70
	Weighing 8 and under 12 oz. to the square yard					
	46,719	38,838	30,734	28,260	89	111
	Weighing under 8 oz. to the square yard					
	11,300	8,548	10,090	9,075	66	84
	Total other woven worsted fabrics containing 90 per cent. or more wool					
	70,284	57,390	55,175	50,255	..	..
	Containing less than 90 per cent. wool					
	Weighing 12 oz. and over to the square yard					
	3,323	2,215	6,698	3,703	21	23
	..	..	..	730		
	Weighing 8 and under 12 oz. to the square yard					
	13,082	8,283	11,556	8,189	47	54
	Weighing under 8 oz. to the square yard					
	13,544	8,167	10,080	7,344	43	54
	Total other woven worsted fabrics containing less than 90 per cent. wool					
	29,949	18,665	28,334	19,236	..	..
	..	..	..	730	..	..

Continued on next page.

TABLE 5 (continued)

Industry sub-division (a)	1963		1968			
	Quantity	Value	Quantity	Value	Enter-prises	Entries
	Thousands	£'000	Thousands	£'000	Number	Number
MANUFACTURES OF WOOL (excluding fabrics backed with plastic foam and fabric to fabric bonded materials) (continued)						
52 Blankets other than of man-made fibres						
Containing 90 per cent. or more wool (other than greys)						
Cot size	..	506	339	292	26	27
Other than cot size	2,360	6,188	2,178	5,963	38	39
Greys	372	323	274	361	15	15
Mixtures (including cotton warp)						
Cot size	383	183	82.5	45	10	10
Other than cot size	1,377	1,919	..	52		
Th.sq.yds.			Th.sq.yds.			
52 Travelling rugs, coverlets, wrappers and shawls (other than knitted)	2,134	1,078	1,326	978	41	42
	..	339	..	177		
54,60 Wool felt (including asbestos wool felt but excluding needlefelt)						
For use in the manufacture of paper and board and asbestos sheets, woven and pressed	2,535	3,848(j)	704	1,182	*	*
			..	221		
For carpet underfelling, pressed	-	-	..	559	*	*
54,60 For other uses, woven and pressed	1,472	956(k)	547	452	7	8
	..	626	..	1,345		
60 Felt wholly or partly of fibres other than wool	5,796	3,282	662	483	8	10
			..	2,071		
	Th.lb.		Th.lb.			
55 Wool flock	9,603	216	5,253	140	15	15
			..	155		
53 Other manufactures of wool (excluding carpets and rugs, clothing and smallwares)	..	698	..	411	9	9
OTHER PRODUCTS AND WASTE						
52 Blankets of man-made fibres (nylon, rayon, etc) other than tufted	Thousands		Thousands			
	2,540	3,289	3,665	5,017	21	23
	Th.sq.yds.		Th.sq.yds.			
Woven woollen and worsted fabric to fabric bonded materials (l)	..	(d)	105	73	7	8
			..	340		
Woven, woollen and worsted fabrics backed with plastic foam (including foam sandwiches) (m)	..	2,899	694	397	10	10
Other products			..	1,931	22	26
Waste products	Th.lb.		Th.lb.			
Wool waste sold, other than combers' waste	28,876	2,870	23,098	1,748	249	322
	Th.tons		Th.tons			
Animal oils, fats and greases	2.2	132	1.5	87	14	18
			..	20		
Man-made fibres (nylon, rayon, etc) waste	4,151	396	8,043	536	81	95
Other waste products	..	492	..	590	117	150
Total sales of goods made and waste products sold		528,646		496,598	..	..

TABLE 5 (continued)

Industry sub-division (a)	1963		1968			
	Quantity	Value	Quantity	Value	Enter-prises	Entries
		£'000		£'000	Number	Number
11 WORK DONE						
Wool sorting, blending, scouring and carbonising		1,895		2,140	46	59
13 Wool combing		14,059		9,427	16	32
13 Wool re-combing		775		1,344	16	23
51 Woollen spinning		1,955		2,629	99	117
20 Worsted spinning		1,904		4,270	54	87
55 Winding and warping		300		315	88	113
55 Weaving		2,795		3,181	122	150
40 Woollen, worsted and hair rags and waste (dyed, carbonised, etc)		122		473	18	21
55 Other work done (n)		1,937		2,780	96	118
Total work done		25,740		26,559	..	..
Total		554,386		523,163	..	..
		6,529		7,172	..	..
		547,857		515,991	480	673(o)

(a) The number given is that of the sub-division of which the item is a characteristic product. The sales shown are total sales by larger establishments, not merely sales by establishments classified to the sub-division.

(b) Including tops produced on Pacific converters, turbo-staplers and similar machines.

(c) Included with tops or slubbings, first combed wholly of man-made fibres (nylon, rayon, etc).

(d) Not recorded separately for 1963.

(e) Including yarn of cashmere spun on the worsted system.

(f) Included with yarn of other hair or of mixtures containing hair spun on the worsted system.

(g) Included yarn of mohair and of other hair or of mixtures containing hair spun on the woollen system.

(h) Including yarn of mohair, cashmere, angora, etc spun on the worsted system.

(i) Included with yarn of mohair, cashmere, angora, etc spun on the woollen system.

(j) Woven felt only for 1963.

(k) Pressed felt only for 1963.

(l) Sales of woven woollen and worsted fabric to fabric bonded materials by larger establishments in scope of the Census and by merchant converters are as follows for 1968:

Quantity	Value
Th.sq.yds.	£'000
237	437
..	340

Similar information is not available for 1963.

(m) Sales of foamback woven woollen and worsted fabrics by larger establishments in scope of the Census and by merchant converters are as shown below:

1963		1968	
Quantity	Value	Quantity	Value
Th.sq.yds.	£'000	Th.sq.yds.	£'000
3,665	2,011	694	397

(n) Including work done on dyeing, carbonising etc by firms classified to the Textile Finishing Industry (Part 110).

(o) This figure represents the total number of returns made for larger establishments in this industry, which is less than the total number of establishments shown in Table 4 on account of combined returns covering more than one establishment.

TABLE 6 Sales of principal products of the industry by larger establishments classified to other industries, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

	1963		1968			Principal industries in which produced (a)
	Quantity	Value	Quantity	Value	Entries	
PREPARATORY PROCESSES AND SPINNING		£'000		£'000	Number	
Wool and other animal hair (including woollen, worsted and hair rags) sorted, blended, scoured or carbonised but not otherwise treated; carpet and rug yarn wholly of wool or mixtures containing wool, or of man-made fibres spun on the woollen, worsted or semi-worsted systems	..	3,890(b)	..	4,478	7	99,102,106
MANUFACTURES OF WOOL (excluding fabric to fabric bonded materials)	Th.sq.yds.		Th.sq.yds.			
Plushes and other pile fabrics and chenille fabrics			922	1,098	*	100,106
Damasks, tapestries, brocades and the like, mechanical cloth (other than woven felt), bunting and other woven woollen fabrics	{ 443 .. }	{ 225 137 }	..	379	*	100,106
Other woven worsted fabrics	-	-	..	222	*	100
Wool felt (excluding needlefelt) and felt wholly or partly of fibres other than wool	..	360	{ 489 .. }	{ 54 64 }	{ 6 .. }	100,112,130
Other manufactures of wool	..	1,665(c)	..	66	*	
OTHER PRODUCTS						
Blankets of man-made fibres (nylon, rayon, etc) other than tufted and fabric to fabric bonded materials	-	-	..	632	9	100,108,112,113
WORK DONE		252		179	5	110
Total		6,529		7,172	..	

(a) The references given are to the list of industries at the front of this report.

(b) For 1963 includes tops or slubbings, carpet and rug yarn of hair or mixtures containing hair, yarn, other than for carpets or for hand knitting.

(c) For 1963 includes foamback woven fabrics.

TABLE 7 Sales of other than principal products by larger establishments in the industry, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

	1963	1968	
	Value	Quantity	Value
	£'000	Th.sq.yds.	£'000
Finished woven cloth of cotton and of man-made fibres or of man-made fibres mixed with other materials	1,860	{ 5,652 .. }	{ 2,521 494 }
Pile fabric rugs and needlefelt for carpet under-felting and other purposes	675	..	2,028
Made-up household textiles		..	637
Other products	{ 5,209	{ ..	{ 8,056
Work done on textiles finished on commission			
Woollen fabrics	146	4,523	182
Worsted fabrics and other textiles finished	276	..	272
Services rendered to other organisations (a)	609	..	464
Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored)			
Woollen, worsted and hair rags, sorted and cleaned	{ 26,021	{ ..	{ 417
Other goods merchanted or factored		..	16,529
Canteen takings	882		940
Total	35,679		32,540

(a) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered to other organisations.

TABLE 8 Production of certain principal products of the industry by larger establishments, 1963 and 1968.

This table is not applicable to this industry.

TABLE 9 Purchases by larger establishments of selected principal products of the Industry, 1968

Establishments employing 25 or more persons:
Analysis of returns received, United Kingdom (a)

Standard Industrial Classification Minimum List Heading	Purchasing industry (b)	Woven piece goods (other than narrow fabrics) wholly or mainly of wool	
		Quantity	Cost
		Th.sq.yds.	£'000
441	Weatherproof outerwear	1,671	1,227
		..	156
442	Men's and boys' tailored outerwear	51,993	34,486
		..	8,932
443	Women's and girls' tailored outerwear	19,839	12,432
		..	3,732
444	Overalls and men's shirts, underwear, etc	2,613	869
445	Dresses, lingerie, infants' wear, etc	5,798	3,189
		..	1,471
472	Furniture and upholstery	2,129	1,653
		..	1,592
	Other industries	2,247	1,766
		..	484
	Total	86,289	55,622
		..	16,367

(a) The figures include purchases of imported as well as home produced goods.

(b) Specific census industries for which purchases are 1 per cent. or more of the total of the commodity heading.

TABLE 10 Purchases by larger establishments in the industry, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

	1963		1968	
	Quantity	Cost	Quantity	Cost
Materials for use in production		£'000		£'000
Wool, virgin (including wool obtained from skins)				
In greasy state when purchased				
Merino, 60's quality and above	..	52,515	..	37,365
Other (crossbred, Indian, etc)	..	52,685	..	38,383
Scoured, carbonised or slipped when purchased				
Merino, 60's quality and above	..	9,442	..	7,510
Other (crossbred, Indian, etc)	..	19,844	..	18,376
Mohair, alpaca and other hair	..	12,287	..	12,051
Wool waste, including hosiery clips and overlocks	..	4,256	..	2,072
Man-made fibre and mixture waste	..	(a)	Th.lb. 19,217	1,879
			..	378
Woollen, worsted and hair rags, knitted or woven	..	1,662	..	1,821
Textile rags and waste	..	(a)	..	816
Recovered wool (shoddy or mungo)	..	4,167	..	3,578
Wool noils	..	5,189	..	3,080
Man-made fibre and mixture noils	..	(a)	359	49
Broken tops of wool	..	1,886	..	3,331
Hair noils and broken tops	..	2,990	..	851
Tops wholly of wool, first combed				
Merino, 60's quality and above	..	44,146	..	33,107
Other (crossbred, Indian, etc)	..	26,340	..	14,552
Tops of hair (alpaca, mohair, etc) first combed	..	1,744	..	1,953
Tops made from man-made fibres (nylon, rayon, etc)	..	14,462	..	17,323
Tops or slubbings, re-combed	..	2,129	..	5,753
Woollen yarn, including mixtures if known as woollen	..	6,999	16,664	7,658
Worsted yarn including mixtures if known as worsted	..	41,419	44,637	32,998
Yarns of alpaca, mohair, cashmere and other hair	..	3,924	2,422	2,639
Cotton				
Raw and waste	..	574	..	369
Yarn (including cotton waste yarn)	Th.lb. 12,355	3,373	7,967	1,990
	..	554	..	
Man-made fibres (nylon, rayon, etc)				
Staple fibre				
Synthetic (nylon, etc)	..	10,397	85,712	20,925
Other (rayon, etc)	..	4,862	38,479	4,649
Continuous filament yarn				
Synthetic (nylon, etc) yarn	1,148	487	7,088	3,865
Other (rayon, etc) yarn	8,106	2,312	794	279
			..	188

Continued on next page.

TABLE 10 (continued)

	1963		1968	
	Quantity	Cost	Quantity	Cost
Materials for use in production (continued)	Th.lb.	£'000	Th.lb.	£'000
Man-made fibres (nylon, rayon, etc) (continued)				
Spun yarn (including waste yarn) and spun yarn doubled with continuous filament yarn (b)				
Synthetic (nylon, etc) yarn	2,223	1,487	3,855	2,007
Other (rayon, etc) yarn	8,512	1,772	2,937	761
Mixtures of synthetic (nylon, etc) with other man-made fibres (rayon, etc)	..	(a)	958	469
Woven jute cloth (hessian)	..	..	..	54
Binding ribbon	..	..	..	122
Soaps, detergents and other scouring materials	..	1,297	..	483
Dyestuffs	..	3,694	..	1,106
Oil for processing	..	1,589	..	4,274
	Th.gal.		Th.gal.	
	383	103	375	110
Lubricating oils and greases	Th.cwt.		Th.cwt.	
	1.9	9	3.6	17
	..	32	..	16
Replacement parts for firms' own machinery, plant and vehicles, and accessories and consumable tools bought as replacement				
Bobbins, pirns, cones, tubes, beams, etc, except paper tubes, etc, purchased for packaging	..	771	..	978
Tyres and other spare parts for firms' own road goods vehicles	..	4,010	..	119
Other	..	..	..	2,566
All other materials for use in production	..	7,286	..	6,710
Packaging materials				
Paper and board				
Boxes, cartons, drums and canisters, (with or without metal ends) of paper and cardboard	..	773	..	727
Fibreboard packing cases	..	..	..	136
Wrapping and packing paper (including paper coated with plastics and any laminates incorporating paper but not metal)	..	..	..	539
Other packaging materials of paper and paperboard (including moulded pulp units, labels and cones but excluding bags and multiwall paper sacks, and paper and board for converting into packaging materials)(c)	..	898	..	349
Containers wholly or mainly of wood (including plywood boxes and drums), baskets and wickerwork crates	..	(a)	..	123
Transparent regenerated cellulose film				
In sheets or rolls	..	472	..	118
Bags	..	..	..	276
All other packaging materials	..	711	..	708

TABLE 10 (continued)

	1963		1968	
	Quantity	Cost	Quantity	Cost
Fuel and electricity (d)	Th.tons	£'000	Th.tons	£'000
Coal	724	3,748	434	2,430
Coke (including screenings) and manufactured fuel	4.6	35	2.2	20
	..	6	..	3
	Th.gal.		Th.gal.	
Derv fuel and motor spirit for use in road vehicles	2,090	417	1,726	467
	..	..	..	63
Other liquid fuels (including creosote/pitch mixtures, etc, and liquefied petroleum gases)	16,875	708	36,025	1,580
	..	123	..	283(e)
	Th.therms		Th.therms	
Gas	909	80	924	78
	..	35	..	13
	Th.kWh		Th.kWh	
Electricity	581,805	3,965	599,287	4,731
	..	882	..	1,041
Total cost of materials and fuel		365,548		315,174
Goods purchased for merchanting		24,269		15,402
Canteen purchases		942		993
Total cost of purchases		390,758		331,570

- (a) Not recorded separately for 1963.
- (b) Waste yarn was not specifically included for 1963.
- (c) Multiwall paper sacks only were excluded for 1963.
- (d) The total quantity of electricity generated in establishments employing 25 or more persons in this industry was 69,182 Th.kWh in 1968 and 95,608 Th.kWh in 1963.
- (e) For 1968 may include a small amount of fuels not covered by specific headings.

Account payable	1963	1968
...	1,000	1,000
...	1,387	1,387
...	281	281
...	4,588	4,588
...	718	718
...	2,081	2,081
...	171	171
...	1,289	1,289
Total	10,849	10,849

(a) No deduction is made for these payments to arrive at the figures of net output given in this report.
 (b) For details see Table 11.
 (c) Excluding taxes for 1963.

TABLE 11 Transport costs and employment of larger establishments, 1963 and 1968

Establishments employing 25 or more persons:
Analysis of returns received, United Kingdom

	Unit	1963	1968
Average number mainly employed on transport	No.	1,055	1,082
Transport costs			
Wages and salaries	£'000	715	825
Derv fuel and motor spirit	"	417	529
Tyres and other spare parts for road goods vehicles	"	..	119
Payments to other organisations for transport	{ by road by rail and other means excluding postal services	{ 3,473	{ 3,009
			829
Costs of operating road goods vehicles			
Insurance	"	119	62
Vehicle licences	"	62	108
Depreciation	"	535	413
Payments to other organisations for repairs and maintenance	"	221	251
Total	"	5,542(a)	6,145

(a) Excluding tyres and other spare parts for road goods vehicles, not collected separately for 1963.

TABLE 12 Payments for certain services, etc by larger establishments, 1963 and 1968 (a)

Establishments employing 25 or more persons:
Analysis of returns received, United Kingdom

	Amounts payable	
	1963	1968
Repairs and maintenance to	£'000	£'000
Buildings	1,387	1,367
Road goods vehicles	221	251
Plant, machinery and other capital equipment	3,686	4,636
Insurance, licensing and depreciation of road goods vehicles (b)	716	583
Rates, excluding water rates	2,081	2,519
Hire of plant and machinery	171	317
Postage, telephone, telegrams, cables and telex (c)	1,048	1,269
Total	9,309	10,943

(a) No deduction is made for these payments to arrive at the figures of net output given in this report.

(b) For details see Table 11.

(c) Excluding telex for 1963.

TABLE 13 Percentage analysis of twelve-month periods covered by returns from larger establishments, 1968

Establishments employing 25 or more persons:
Analysis of returns received, United Kingdom

Year ended	Percentage of total returns received	Percentage of total number employed
1968	Per cent.	Per cent.
April (a)	1.6	1.0
May	1.0	0.6
June	6.7	5.7
July	1.6	2.0
August	3.7	4.2
September	8.8	6.0
October	2.8	3.3
November	7.0	7.3
December	26.3	26.8
1969		
January	5.1	4.6
February	4.2	5.1
March	28.8	31.1
April (b)	2.4	2.3
	100	100

(a) From 6 April.

(b) To 5 April.