

BOARD OF TRADE

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*The Report on the
Census of Production
for 1954*

Volume 6: Industry C

WOOLLEN AND WORSTED



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

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The Report on the Census of Production for 1954

VOLUME 6 INDUSTRY C

WOOLLEN AND WORSTED

THIS REPORT on the Woollen and Worsted Industry 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, hair cloth, and the manufacture of wool blankets, etc. The spinning of rayon, nylon, etc., staple fibre by woollen and worsted spinners is included.

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

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IMPORTANT NOTES and definitions appear on the next page. In interpreting the data in the tables, it is essential to bear these in mind.

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The following notes describe terms in general use in the tables of the report. More detailed explanations of the terms used and a description of the scope and method of taking the census are given in the separate booklet entitled 'The Report on the Census of Production for 1954 - Introductory Notes' (price 1s. 6d. net).

Industrial Classification: Establishments are classified to industries according to the nature of their output and, as far as possible, in conformity with the Standard Industrial Classification. Certain products are identified as the principal products of individual industries, the principal products for a given industry being of a similar nature or commonly associated in production. The principle of classification normally followed is that an establishment is classified to an industry if its output of the principal products of that industry accounted for a greater proportion of the value of its output than did its output of the principal products of any other industry.

Specialist producers normally comprise those establishments 50 per cent. or more of whose total output by value is accounted for by the characteristic products of the specialist group.

Intermediate products: For some industries figures are given showing the total quantities made during the year of intermediate products, i.e., products which may be further processed in the establishments in which they are produced.

Larger establishments: The information given in the report relates mainly to 'larger establishments', i.e., establishments of firms employing on the average more than 10 persons. In most cases an establishment comprises the whole of the premises under the same ownership or management at a particular address (e.g., a mine or factory). Offices, warehouses, laboratories and other ancillary places of business situated apart from the producing works are not regarded as separate establishments and are included in the return for the works.

Small firms are those employing on the average 10 or fewer persons.

The estimates for the industry as a whole given in Table 1 are normally obtained by increasing the other items shown in the same proportion as total employment.

Gross output (production) is the total value of goods made and other work done during the year; it is obtained by adjusting the value of sales and work done during the year for changes in the value of stocks of products on hand for sale and work in progress.

Net output is the amount left after deducting from the value of gross output the aggregate of the cost of materials and fuel used, the amount paid for work given out, and, for 1951 and 1954, any transport payments made. 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.

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. The value of sales is the net selling value, i.e., 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.

Materials and fuel: The total cost of materials and fuel purchased includes all purchases during the year of materials for use in production, and of fuel (includ-

ing oil, gas and electricity) for all purposes; packing materials, including the full cost of returnable cases when first purchased; workshop and office materials; water charges; materials for repairs to buildings, plant and vehicles when carried out by firms' own work-people included in their returns; consumable tools; and parts for machinery purchased as replacements. Purchases of goods for merchanting are excluded. The cost of materials and fuel used, given in Table 2, is obtained by adjusting purchases for changes during the year in the value of stocks.

Stocks: Firms were required to give stocks of materials and fuel, products on hand for sale, and work in progress, at income tax values.

Customs and Excise Duty paid on materials purchased is normally included in the cost of materials. Finished goods are similarly valued as they were sold, duty-paid or duty-free. The net amount of any duty paid is deducted in arriving at net output.

Employment: Total employment includes working proprietors, administrative, technical and clerical employees, and operatives, but excludes outworkers, canteen employees and persons engaged in merchanting or any other activity not covered by a firm's return, who are shown separately as excluded employees. Employees are persons on the pay-roll (i.e., persons whose National Insurance cards were held by employers), whether employed full-time or part-time.

Working proprietors are proprietors of businesses other than limited companies, together with members of their families who worked in the business without receiving fixed wages or salaries. Any persons working less than half the normal hours are excluded. For Northern Ireland directors of limited companies (other than those paid by fee only) are also included.

Administrative, technical and clerical employees include directors, other than those paid by fee only (except in Northern Ireland); managers, superintendents and works foremen; research, experimental, development, technical and design employees (other than operatives); draughtsmen and tracers; travellers; and office (including works office) employees.

Operatives include all other classes of employees, i.e., broadly speaking, all manual workers.

Outworkers are persons employed by the firm who work on materials supplied by the firm in their own homes.

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

Capital expenditure includes expenditure on new building work, and on plant, machinery and vehicles, charged to capital account during the year, including any transport and installation costs involved. It includes expenditure in respect of establishments in Great Britain which had not begun production before the end of the year (which has not previously been included in the Census of Production reports for individual industries).

Symbols used:

.. for not available

- for nil or negligible (less than half the final digit shown).

Where figures are rounded, e.g., given to the nearest £ thousand, there may be apparent slight discrepancies between the sums of constituent items and the totals shown. In some cases, figures have been combined with others of a similar nature where publication of separate details might disclose information relating to an individual undertaking.

WOOLLEN AND WORSTED

Industry summary

Estimates for the industry as a whole

TABLE 1

	United Kingdom			Scotland 1954	Wales 1954
	1948	1951	1954		
Gross output (production)	£ million 358.6	£ million 696.7	£ million 608.2	£ million 42.34	£ million 1.18
Net output	118.0	123.8	144.4	12.80	0.37
Total stocks and work in progress					
At beginning of year	83.0	178.9	160.1	13.57	0.31
Change during year	+ 14.5	- 26.1	+ 4.5	- 0.31	- 0.01
Capital expenditure less disposals (a)	6.0	9.5	7.1	0.63	0.02
Wages and salaries	49.2	61.4	73.3	5.86	0.21
Total employment (including working proprietors)	Thousands 188.4	Thousands 195.5	Thousands 197.2	Thousands 17.69	Thousands 0.66

(a) Capital expenditure on new building work, plant, machinery and vehicles (including (except in 1948) that incurred in Great Britain for establishments not yet in production), less amounts received for plant, machinery and vehicles disposed of.

Summary of returns received

TABLE 2

	Unit	Great Britain 1948	United Kingdom	
			1951	1954
FIRMS EMPLOYING ON AVERAGE MORE THAN 10 PERSONS				
Number of establishments	No.	1,457	1,502	1,503
Total value of sales and work done	£' 000	342,659	676,752	593,894
Products on hand for sale	at beginning of year and work in progress	27,255	64,982	66,627
change during year		+ 7,652	+ 8,654	+ 4,689
Gross output (production) (a)	"	349,681	685,406	598,583
Manufacturers' 7½ per cent. subsidy	"	1,149	-	-
Cotton subsidy	"	208	-	-
Purchases of materials and fuel	"	225,746	507,951	426,852
Stocks of materials and fuel	at beginning of year change during year	53,705	111,045	90,930
		+ 6,499	- 34,299	- 271
Cost of materials and fuel used	"	219,247	542,250	427,123
Payment for work done on materials given out	"	16,718	19,506	26,409
Payment for transport (b)	"	629	1,880	2,919
Net output	"	115,074	121,771	142,132
Average number of employees	operatives others	No. 168,415	175,621	175,898
Total employment (d)		" 14,971(c)	16,534	18,037
Net output per person employed (d)	"	£ 626	633	732
Wages and salaries	of operatives of others	£' 000 38,935	48,629	58,523
Capital expenditure		" 9,050	11,751	13,607
New building work (e)	"	968	1,781	947
Plant and machinery	acquisitions (e) disposals	4,789	7,187	5,283
Vehicles		496	419	316
	acquisitions (e) disposals	697	1,023	967
		106	303	383
FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS				
Number of returns	No.	529	516(f)	444
Total employment, including working proprietors	"	2,866	2,927(f)	2,474

- (a) For the year 1948 gross output excludes payments for transport services outwards on finished goods sold. For subsequent years gross output includes payments to other firms and undertakings and to firms' own separate transport organisations for transport services.
- (b) Payments to other firms and undertakings and to firms' own separate transport organisations. For the year 1948 payments cover only transport outwards of finished goods sold. For subsequent years they cover payments for transport of both finished goods sold and materials and fuel purchased.
- (c) Number in week ended September 25, 1948.
- (d) Excluding outworkers and including working proprietors.
- (e) Excluding expenditure for establishments not yet in production.
- (f) Excluding Northern Ireland. No information about small firms was collected in Northern Ireland for 1951.

Larger establishments in the United Kingdom

TABLE 3

Average number employed (a)	Estab-lish-ments	Gross output	Net output	Employees		Wages and salaries		Capital expenditure (b)	Net output per person employed (a)
				Operatives	Others	Operatives	Others		
	Number	£'000	£'000	Number	Number	£'000	£'000	£'000	£
11 - 24(c)	257	31,148	4,156	3,593	721	1,240	548	215	954
25 - 49	291	61,813	8,911	9,117	1,367	3,104	1,084	532	846
50 - 99	323	93,908	18,891	20,527	2,455	6,948	1,997	844	821
100 - 199	353	144,555	37,695	45,301	4,337	15,326	3,419	1,903	759
200 - 299	139	89,183	23,450	30,373	2,976	10,175	2,128	1,047	703
300 - 399	67	55,683	15,175	21,171	1,912	6,905	1,331	978	657
400 - 499	24	22,487	7,231	9,592	992	3,131	692	497	683
500 - 749	33	46,275	12,300	17,494	1,526	5,623	1,189	515	647
750 - 999	6	13,780	3,228	4,782	334	1,569	272	139	631
1,000 - 1,499	5	12,340	3,095	4,899	386	1,439	260	190	586
1,500 and over	5	27,412	8,000	9,049	1,031	3,062	688	337	794
Total	1,503	598,583	142,132	175,898	18,037	58,523	13,607	7,198	732

(a) Excluding outworkers and including working proprietors.

(b) Capital expenditure on new building work and on acquisition of plant, machinery and vehicles. Excluding expenditure for establishments not yet in production.

(c) Including a small number of establishments with fewer than eleven persons employed, particulars of which were included with those for larger establishments on a single return.

Analysis according to specialisation within the industry, 1954

Larger establishments in the United Kingdom

TABLE 4

	Unit	Specialist producers of									
		Wool sorted, blended, etc.	Re-covered wool (shoddy or mungo)	Tops			Spun yarns				
				Wool merchants (a)	Combers on own account	Combers on commis-sion	Woollen		Worsted		
	No.						On own account	On commis-sion	On own account	On commis-sion	
Number of establishments	No.	37	50	41	25	61	103	21	268	17	
Total value of sales and work done	£'000	17,251	8,892	90,549	38,707	11,232	39,333	556	153,916	944	
Sales of characteristic products	..	14,773	8,133	86,803	33,797	10,599	35,107	492	134,344	830	
Products on hand for sale and work in progress	{ at beginning of year change during year	..	860	283	7,507	3,247	74	2,455	(b)	18,446	72
Gross output (production)	..	+ 384	+ 47	+1,267	- 70	- 2	+ 26	+ 1	- 260	+ 4	
Purchases of materials and fuel	..	17,635	8,939	91,816	38,636	11,230	39,360	557	153,656	948	
Stocks of materials and fuel	{ at beginning of year change during year	..	15,625	6,601	77,334	32,246	2,804	30,357	122	114,769	185
Cost of materials and fuel used	..	1,955	1,133	15,935	7,874	615	6,194	21	23,263	37	
Payment for work done on materials given out	..	+ 164	+ 26	+ 762	-1,010	+ 54	+ 104	- 1	- 1,071	+ 20	
Payment for transport	..	15,461	6,576	76,572	33,255	2,750	30,253	123	115,841	165	
Net output	..	517	171	7,068	1,505	67	746	10	4,319	32	
Average number of employees	No.	167	87	600	121	111	191	9	524	2	
Total employment (c)	..	1,491	2,105	7,576	3,755	8,303	8,169	415	32,972	748	
Net output per person employed (c)	£	646	1,921	1,354	3,190	8,976	9,362	584	50,078	1,730	
Wages and salaries	{ of operatives of others	..	281	304	525	346	653	966	56	4,386	99
Capital expenditure	..	935	2,228	1,887	3,538	9,630	10,339	645	54,474	1,834	
New building work (d)	..	1,595	945	4,015	1,061	862	790	644	605	408	
Plant and machinery	{ acquisitions disposals (d)	..	278	691	717	1,316	4,051	3,283	221	14,224	469
Vehicles	{ acquisitions disposals	..	265	259	626	432	485	748	38	3,033	59
	..	4	46	(b)	66	25	57	2	174	(b)	
	..	15	73	6	69	342	455	31	1,287	68	
	..	1	9	-	4	11	6	4	64	2	
	..	38	38	72	42	29	67	4	198	6	
	..	16	21	25	15	9	26	1	88	2	

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(continued on next page)

TABLE 4 (contd.)

	Unit	Specialist producers of										Work done for the trade or on commis-sion	Re-main-der of the indus-try	Total
		Woven fabrics								Mech-anic-al cloth and wool felts				
		Woollen				Worsted								
		Blankets, travelling rugs, etc.		Other woven fabrics		Dam-asks, tapes and the like		Inter-lin-ings			Other woven fabrics			
With spin-ning	With-out spin-ning	With spin-ning	With-out spin-ning	With spin-ning	With-out spin-ning	With spin-ning	With-out spin-ning							
Number of establishments	No.	40	8	264	91	..	..	86	226	30	113	10	1,503
Total value of sales and work done	£'000	8,247	811	84,269	14,690	386	1,747	44,177	59,769	11,224	4,803	2,393	593,894	
Sales of character-istic products	..	7,663	728	75,187	12,782	299	1,408	32,026	56,040	9,469	3,565	..	..
Products on hand for sale and work in progress	{ at beginning of year change during year	..	1,007	59	11,088	1,624	(b)	158	8,888	8,993	1,314	261	224	66,627
Gross output (pro-duction)	..	+ 22	+ 35	+ 568	+ 43	+ 18	- 4	+ 289	+ 2,226	+ 4	+ 24	+ 68	+ 4,689	
Purchases of materials and fuel	..	8,269	846	84,837	14,733	404	1,742	44,466	61,995	11,228	4,826	2,461	598,583	
Stocks of materials and fuel	{ at beginning of year change during year	..	5,453	450	49,633	9,252	194	1,202	28,947	42,414	6,237	1,501	1,526	426,852
Cost of materials and fuel used	..	1,237	59	15,928	1,900	30	145	6,390	5,995	1,837	103	279	90,930	
Payment for work done on materials given out	..	+ 152	+ 19	+ 546	+ 25	+ 3	- 1	- 467	+ 327	+ 104	- 9	- 18	- 271	
Payment for transport	..	5,300	431	49,087	9,228	191	1,203	29,414	42,088	6,132	1,510	1,545	427,123	
Net output	..	360	72	3,387	1,114	51	30	2,137	4,357	194	173	99	26,409	
Average number of employees	No.	66	8	481	79	3	11	146	177	83	38	14	2,919	
Total employment (c)	..	2,542	335	31,881	4,313	160	498	12,769	15,372	4,818	3,105	803	142,132	
Net output per person employed (c)	£	3,660	395	42,315	6,306	228	512	18,312	16,998	3,834	4,655	842	175,898	
Wages and salaries	{ of operatives of others	..	332	43	4,208	744	72	58	1,730	2,188	554	401	91	18,037
Capital expenditure	..	3,996	438	46,555	7,070	300	570	20,047	19,197	4,388	5,086	934	194,091	
New building work (d)	..	636	764	685	610	533	874	637	801	1,098	611	860	732	
Plant and machinery	{ acquisitions disposals (d)	..	1,223	112	14,668	1,961	61	159	5,812	5,762	1,614	1,630	272	58,523
Vehicles	{ acquisitions disposals (d)	..	260	27	3,148	473	47	47	1,362	1,556	404	283	56	13,607
	..	44	-	260	9	-	1	61	73	47	20	2	947	
	..	92	9	1,282	130	4	9	501	435	187	236	54	5,283	
	..	1	-	84	57	2	-	18	36	2	13	1	316	
	..	11	9	165	26	1	4	78	107	26	42	4	967	
	..	3	3	63	12	-	2	29	45	10	10	2	383	

(a) 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.

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

(c) Excluding outworkers and including working proprietors.

(d) Excluding expenditure for establishments not yet in production.

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Sales of the principal products of the industry, including sales of these products by establishments classified to other industries

Larger establishments in the United Kingdom

TABLE 5

	1951		1954		
	Quantity Th.lb.	Value £'000	Quantity Th.lb.	Value £'000	Entries Number
Wool, sorted, blended, scoured or carbonised, but not otherwise treated					
Wool, sorted or blended, not scoured	35,650	12,580	40,762	10,570	95
Wool scoured (a)	20,349	9,575	21,661	7,251	52
Wool and wool by-products carbonised (b)	6,219	3,472	7,634	2,787	20
Other animal hair (alpaca, mohair, etc.)	3,475	1,112	4,165	1,333	12
Recovered wool (shoddy or mungo)	66,054	10,333	89,521	9,559	78
Tops or slubbings, first combed					
Of wool					
Oil combed					
Merino, 60's quality and above	72,155	69,043	95,007	56,803	53
Other wool above 50's to 58's	36,212	25,892	47,219	20,666	55
Other wool, 50's and below	38,032	21,871	45,931	16,023	50
Dry combed					
Merino, 60's quality and above	13,290	12,188	25,078	15,510	43
Other wool, above 50's to 58's	3,035	2,215	5,279	2,484	31
Other wool, 50's and below	2,402	1,490	2,779	993	21
Of other materials					
Wholly of animal hair (alpaca, mohair, etc.)	3,833	1,654	4,703	4,253	10
Wholly of man-made fibres (rayon, nylon, etc.)	9,176	1,475	9,898	1,499	8
Total tops or slubbings, first combed	178,134	135,828	235,894	118,231	..
Tops or slubbings, re-combed	4,133	3,767	5,450	3,458	9
Noils					
Oil combed	21,345	11,118	23,612	7,043	123
Dry combed	3,714	1,560	4,601	1,363	56
Combers' shoddy, burrs, etc.	12,336	1,758	14,648	1,472	94
Yarn, other than for carpets and rugs or for hand-knitting					
Woollen (carded only)					
All wool	18,103	11,702	18,712	10,491	93
Of wool mixed with other materials	18,397	9,693	15,563	6,037	63
Worsted (combed)					
All wool	125,269	125,153	140,683	104,054	219
Of wool mixed with other materials	13,973	10,756	18,335	10,357	113
Mohair	2,365	2,128	2,415	2,058	14
Cashmere	513	2,164	659	3,112	11
Other yarn of hair, or of hair mixed with other materials	6,931	3,583	5,980	2,367	28
Hand-knitting yarn, including mending yarn, i.e., skeins, balls and the like, for retail sale					
Woollen	1,924	1,465	2,717	2,108	38
Worsted	22,047	20,255	28,108	20,725	76
Alpaca, mohair, cashmere, angora rabbits' and camels' hair	422	1,339	244	826	5

TABLE 5 (contd.)

	1951		1954		
	Quantity Th.lb.	Value £'000	Quantity Th.lb.	Value £'000	Entries Number
Carpet and rug yarn					
All wool, or of wool mixed with other materials					
Woollen	48,255	25,697	62,625	24,297	66
Worsted	3,480	2,406	4,878	2,158	15
Of hair	929	482	611	270	7
Total yarn of wool and hair	262,607	216,823	301,531	188,860	..
Spun yarn of man-made staple fibre (rayon, nylon, etc.) (c)	1,024	360	1,644	1,162	14
Manufactures of wool					
Fabrics wholly or mainly of alpaca, mohair and cashmere, not being pile fabrics	Th.sq.yds. 1,170	1,088	Th.sq.yds. 870	878	18
Damasks, tapestries, brocades and the like	702	547	535	454	7
Wool and mohair plushes and other wire-loom and pile fabrics of wool and mohair	10,873 (d)	8,985 (d)	12,908	9,288	32
Mechanical cloth (other than woven felt)	3,101 (d)	3,791 (d)	2,463	2,150	25
Inter-linings, including hair inter-linings	1,477 ..	340 (e) 2,258	6,434 ..	1,317 447	21
Linings, lastings, etc.	1,002	331	864	205	5
Other woven woollen fabrics					
All wool					
Weighing 16 oz. and over to the square yard	8,756	8,025	8,177	5,670	131
Weighing 12 and under 16 oz. to the square yard	20,989	14,793	24,766	13,154	188
Weighing 8 and under 12 oz. to the square yard	53,721	29,934	49,911	27,012	216
Weighing under 8 oz. to the square yard	17,407	7,666	14,722	5,957	127
Total other woven woollen fabrics, all wool	100,873	60,418	97,576	51,793	..
Of wool mixed with other materials					
Weighing 16 oz. and over to the square yard	9,751	4,857	9,292	4,454	80
Weighing 12 and under 16 oz. to the square yard	25,079	10,800	17,484	6,881	123
Weighing 8 and under 12 oz. to the square yard	65,216	25,525	74,013	24,675	170
Weighing under 8 oz. to the square yard	28,514	8,747	24,189	6,333	98
Total other woven woollen fabrics of wool mixed with other materials	128,560	49,929	124,977	42,343	..
Unclassified	11,087	3,820	5,777 ..	1,625 262	28
Other woven worsted fabrics					
All wool					
Weighing 12 oz. and over to the square yard	7,550	7,250	16,916	12,739	113
Weighing 8 and under 12 oz. to the square yard	54,762	48,833	57,660	44,827	233
Weighing under 8 oz. to the square yard	17,273	11,764	17,293	10,482	158
Total other woven worsted fabrics, all wool	79,586	67,847	91,869	68,048	..

TABLE 5 (contd.)

	1951		1954		Entries Number
	Quantity Th.sq.yds.	Value £'000	Quantity Th.sq.yds.	Value £'000	
Manufactures of wool (contd.)					
Other woven worsted fabrics (contd.)					
Of wool mixed with other materials					
Weighing 12 oz. and over to the square yard	950	826	1,550	888	19
Weighing 8 and under 12 oz. to the square yard	13,266	9,455	15,825	8,399	109
Weighing under 8 oz. to the square yard	15,727	8,405	11,602	5,752	79
Total other woven worsted fabrics of wool mixed with other materials	29,943	18,687	28,977	15,038	..
Unclassified	5,869	5,097	1,329	714	14
Woven piece goods purchased and finished, so far as recorded	8,980	4,088	5,864	2,947	40
Blankets					
Cot size	Th.prs. 197	276	Th.prs. 245	275	46
Other than cot size	3,386	14,800	3,417	10,293	99
Travelling rugs, coverlets, wrappers and shawls (other than knitted)	Th.sq.yds. 1,786	1,166	Th.sq.yds. 2,321	1,261	59
Flags and banners of wool bunting	Th. 419	337 (f)	Th. 86	119	9
Woven wool felt (including asbestos wool felt) for use in the manufacture of paper and board and asbestos sheets	Th.lb. 2,847	4,279	Th.lb. 3,085	3,833	8
Pressed wool felt and other wool felt (including wool needle-felt)	..	5,065	..	4,395	23
Other manufactures of wool, except carpets and rugs, clothing, smallwares and flocks	..	634	..	844	16
Wool waste, other than combers' waste (g)	41,290	8,527	48,578	6,927	1,305
Total goods made for sale		670,594 (d)		579,183	..
Work done for the trade or on commission (h)					
Wool sorting, blending, scouring and carbonising		1,059		1,253	95
Wool combing		6,996		10,367	66
Wool re-combing		836		1,140	33
Woollen spinning		1,120		1,146	145
Worsted spinning		1,268		1,383	121
Winding and warping		249		279	172
Weaving		2,647		3,178	171
Other work done for the trade or on commission		866		1,333	237
Total work done for the trade or on commission		15,041		20,078	..
Total		685,636 (d)		599,261	..
Sales in other industries (see Table 6)		15,957 (d)		10,945	..
Principal products of this industry sold by establishments in the industry		669,679 (d)		588,316	1,254

(a) Processed weight.

(b) Weight produced.

(c) Yarn spun by woollen and worsted spinners only.

(d) Amended figure.

(e) Amended figure. Hair cloth was classified in 1951 to the Hair, Fibre and Kindred Industries (Volume 7, Industry C).

(f) So far as recorded separately.

(g) Excluding wool waste sorted and cleaned, for which see the Flock and Rag Industry (Volume 7, Industry B).

(h) Amount charged.

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Sales of principal products of the industry by establishments classified to other industries

Larger establishments in the United Kingdom

TABLE 6

	1954			Principal industries in which produced (a)
	Quantity	Value	Entries	
Recovered wool (shoddy or mungo)	Th.lb. 15,144	£'000 1,108	Number 23	6E, 7B
Yarn, other than for carpets and rugs or for hand-knitting				
Woollen (carded only)				
Of wool mixed with other materials	1,549	759	8	6A, 6E
Worsted (combed)				
All wool				
Of wool mixed with other materials				
Hand-knitting yarn, including mending yarn, i.e., skeins, balls and the like for retail sale	1,756	742	8	6A, 6E, 6L
Worsted				
Carpet and rug yarn				
Woollen				
Manufactures of wool	Th.sq.yds.			
Damasks, tapestries, brocades and the like	330	245	5	6C, 6E, 6L
Wool and mohair plushes and other wire-loom and pile fabrics of wool and mohair				
Inter-linings, including hair inter-linings	702	135	5	6E, 6O, 7C
Other woven woollen fabrics wholly of wool or of wool mixed with other materials	3,792	880	29	6E
Other woven worsted fabrics wholly of wool or of wool mixed with other materials	2,423	708	15	6E
Woven piece goods purchased or finished, so far as recorded	5,864	2,947	40	6O
Blankets				
Travelling rugs, coverlets, wrappers and shawls (other than knitted)	..	152	10	6E, 6P, 7H, 10B
Flags and banners of wool bunting	..	98	..	6N
Pressed wool felt and other wool felt (including wool needle-felt)	..	284	11	7B, 7C, 11B
Other manufactures of wool, except carpets and rugs, clothing, smallwares and flocks	..	1,239	..	
Wool waste, other than combers' waste	Th.lb. 12,883	1,455	633	6E, 6J, 6L
Total goods made for sale		10,753	..	
Work done for the trade or on commission (b)				
Winding and warping		41	8	
Other work done for the trade, including weaving, wool sorting, blending, scouring and carbonising and wool spinning		151	9	
Total		10,945	..	

(a) The volume number and industry references given are to the industries shown in the list at the back of this report.

(b) Amount charged.

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WOOLLEN AND WORSTED

Sales in the industry of other than principal products
Larger establishments in the United Kingdom

TABLE 7

	1954	
	Quantity	Value
	Th.lb.	£'000
Woollen, worsted and hair rags, dyed, carbonised, etc.	5,647	286
Wool flocks	2,563	49
Carpets, carpeting and floor rugs of wool (including those on a wool or jute base) and mohair and pile fabric rugs	Th.sq.yds. 1,354	531
Piece goods	3,140	960
Of cotton and silk (including mixtures)	..	443
Of rayon, nylon, etc.	800	113
Wholly of continuous filament yarn	3,810	539
Other, including mixtures	..	..
Felt, other than wool felt, wholly or partly of animal hair including needle-felt	757	151
Other goods	..	1,182
Cotton, silk, rayon, nylon and other waste	..	791
Work done (a)	..	533
Total	..	5,578

(a) Amount charged.

Total make of intermediate products
Larger establishments in the United Kingdom

TABLE 8

	Returned in all industries		
	1951	1954	
	Quantity	Quantity	Entries
	Th.lb.	Th.lb.	Number
Wool, sorted, blended, scoured or carbonised, but not otherwise treated	407,605	421,729	203
Wool sorted or blended, not scoured	308,626	323,971	144
Wool scoured	24,134	29,017	30
Wool and wool by-products carbonised	17,494	18,678	30
Other animal hair (alpaca, mohair, etc.)	93,351	106,561	130
Recovered wool (shoddy or mungo)	..	..	..
Tops or slubbings, first combed	..	..	..
Of wool	..	..	..
Oil combed	..	..	..
Merino, 60's quality and above	108,476	133,571	57
Other wool above 50's to 58's	45,179	70,027	54
Other wool, 50's and below	46,679	64,886	49
Dry combed	..	..	..
Merino, 60's quality and above	29,122	43,387	40
Other wool, above 50's to 58's	3,643	7,244	31
Other wool, 50's and below	3,239	5,926	18
Of other materials	..	..	..
Wholly of animal hair (alpaca, mohair, etc.)	10,513	13,296	13
Wholly of man-made fibres (rayon, nylon, etc.)	15,720	14,799	13
Total tops or slubbings, first combed	262,571	353,137	..

(90986)

WOOLLEN AND WORSTED

TABLE 8 (contd.)

	Returned in all industries		
	1951	1954	
	Quantity	Quantity	Entries
	Th.lb.	Th.lb.	Number
Tops or slubbings, re-combed	52,750	56,237	64
Noils	..	..	..
Oil combed	23,077	27,259	110
Dry combed	4,982	7,552	54
Combers' shoddy, burrs, etc.	13,079	15,829	76
Yarn, other than for carpets and rugs or for hand-knitting	..	..	..
Woollen (carded only)	..	..	..
All wool	117,012	100,135	281
Of wool mixed with other materials	113,899	119,017	253
Total woollen (carded only)	230,912	219,152	..
Worsted (combed)	..	..	..
All wool	165,482	167,728	257
Of wool mixed with other materials	15,452	19,654	134
Total worsted (combed)	180,934	187,381	..
Mohair	2,753	2,593	18
Cashmere	639	652	13
Other yarn of hair or of hair mixed with other materials	7,719	6,493	36
Total hair	11,111	9,738	..
Total yarn, other than for carpets and rugs or for hand-knitting	422,956	416,272	..
Hand-knitting yarn including mending yarn, i.e. skeins, balls and the like, for retail sale	..	..	..
Woollen	2,159	2,876	38
Worsted	22,772	28,185	81
Alpaca, mohair, cashmere, angora rabbits' and camels' hair	547	224	6
Total hand-knitting yarn	25,478	31,285	..
Carpet and rug yarn	..	..	..
All wool, or of wool mixed with other materials	..	..	..
Woollen	66,108	79,181	76
Worsted	4,588	5,757	18
Of hair	1,017	639	9
Total carpet and rug yarn	71,713	85,577	..
Total yarn of wool and hair	520,147	533,133	..
Spun yarn of man-made staple fibre (rayon, nylon, etc.) (a)	1,067	1,571	14
Manufactures of wool	..	..	..
Fabrics wholly or mainly of alpaca, mohair and cashmere, not being pile fabrics	Th.sq.yds. 1,197	Th.sq.yds. 864	18
Damasks, tapestries, brocades and the like	..	539	7
Wool and mohair plushes and other wire-loom and pile fabrics of wool and mohair	11,165 (b)	12,965	32
Mechanical cloth (other than woven felt)	3,381 (b)	2,431	25
Inter-linings, including hair inter-linings	2,342 (c)	8,609	23
Linings, lastings, etc.	..	922	7

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TABLE 8 (contd.)

	Returned in all industries		
	1951	1954	
	Quantity	Quantity	Entries
	Th.sq.yds.	Th.sq.yds.	Number
Manufactures of wool (contd.)			
Other woven woollen fabrics			
All wool			
Weighing 16 oz. and over to the square yard	9,594	8,669	138
Weighing 12 and under 16 oz. to the square yard	22,513	25,336	202
Weighing 8 and under 12 oz. to the square yard	56,839	52,265	234
Weighing under 8 oz. to the square yard	18,231	14,899	135
Of wool mixed with other materials			
Weighing 16 oz. and over to the square yard	10,892	9,576	86
Weighing 12 and under 16 oz. to the square yard	26,106	19,199	136
Weighing 8 and under 12 oz. to the square yard	69,122	74,147	185
Weighing under 8 oz. to the square yard	31,487	25,607	112
Unclassified	5,782	7,852	8
Other woven worsted fabrics			
All wool			
Weighing 12 oz. and over to the square yard	14,244	20,700	130
Weighing 8 and under 12 oz. to the square yard	65,421	66,739	255
Weighing under 8 oz. to the square yard	18,203	19,728	172
Of wool mixed with other materials			
Weighing 12 oz. and over to the square yard	1,712	2,646	24
Weighing 8 and under 12 oz. to the square yard	15,509	19,466	128
Weighing under 8 oz. to the square yard	18,621	12,714	88
Unclassified	5,110	613	..

(a) Spun in the Woollen and Worsted Industry. For the output by establishments classified to other industries see the Cotton Spinning and Doubling Industry, the Rayon, Nylon, etc. Production Industry, the Linen and Soft Hemp Industry and the Jute Industry (Volume 6, Industries A, D, G and H respectively).

(b) Amended figure.

(c) Excluding hair cloth, classified in 1951 to the Hair, Fibre and Kindred Industries (Volume 7, Industry C).

Part I - Purchases of materials and fuel, 1954

Larger establishments in the United Kingdom

TABLE 9

	Quantity	Cost
	Th.lb.	£'000
Materials		
Wool, virgin (including wool obtained from skins)		
In greasy state when purchased		
Merino, 60's quality and above	287,925	86,244
Other (crossbred, Indian, etc.)	273,610	65,182
Scoured, carbonised or slipped when purchased		
Merino, 60's quality and above	50,898	19,063
Other (crossbred, Indian, etc.)	79,810	23,523
Mohair, alpaca and other hair	21,771	8,709
Wool waste, including hosiery clips and overlocks	41,506	6,277
Woollen, worsted and hair rags (knitted or woven)	116,829	5,420
Recovered wool (shoddy or mungo)	..	608
Recovered wool (shoddy or mungo)	61,221	6,100
Wool noils	16,272	5,018

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TABLE 9 (contd.)

	Quantity	Cost
	Th.lb.	£'000
Materials (contd.)		
Broken tops of wool	3,327	1,758
Hair noils and broken tops	769	412
Tops wholly of wool, first combed	..	1,716
Merino, 60's quality and above	97,795	57,080
Other (crossbred, Indian, etc.)	76,440	30,644
Tops of hair (alpaca, mohair, etc.), first combed	4,324	1,317
Tops made from man-made fibres (rayon, nylon, etc.)	9,892	2,180
Tops or slubbings, re-combed	2,424	1,271
Woollen yarn, including mixtures if known as woollen	19,000	9,497
Worsted yarn, including mixtures if known as worsted	68,409	52,182
Yarns of alpaca, mohair, cashmere and other hair	2,839	1,941
Cotton		
Raw	3,886	675
Waste	4,519	424
Yarn	21,765	5,671
Man-made fibres (rayon, nylon, etc.)		
Staple fibre		
Synthetic (nylon, etc.) (a)	2,084	1,017
Other (rayon, etc.) (b)	..	133
Yarn spun from staple fibre	39,136	4,307
Continuous filament yarn	3,958	956
Soaps, detergents and other scouring materials	..	225
Dyes and dyestuffs	913	295
Oil for processing	..	33
Tubes, cones, cheeses, reels and bobbins	..	1,262
Other replacement parts for machinery, plant and vehicles, and accessories and consumable tools bought as replacement	..	1,866
Packing materials, not elsewhere specified	Th.gal.	
Jute piece goods	3,845	1,568
Other packing materials	..	282
All other purchased materials	..	703
Unclassified materials	..	6,313
Fuel and electricity	Th.cwt.	
Coal	9	85
Coke	..	50
Liquid fuel (including creosote/pitch mixtures)	..	1,185
For use in internal combustion engines	..	5,718
Motor spirit (petrol) for use in road vehicles and deriv. fuel	..	248
Other	Th.tons	
For burning in furnaces, boilers, kilns, etc.	1,158.5	4,311
Other	13.2	70
For burning in furnaces, boilers, kilns, etc.	Th.gal.	
Motor spirit (petrol) for use in road vehicles and deriv. fuel	2,106	435
Other	1,444	78
For burning in furnaces, boilers, kilns, etc.	3,753	144
Other	..	40

(90986)

TABLE 9 (contd.)

	Quantity	Cost
	Th.therms	£'000
Fuel and electricity (contd.)		
Gas purchased		
From Gas Boards and from other sources, including other departments of the same firms	1,418	94
	..	10
Electricity purchased (c)	Th.kWh.	
From Electricity Boards	446,922	2,331
From other sources, including other departments of the same firms	14,525	83
All other purchased fuel	..	96
Total cost		426,852

- (a) The term 'Synthetic fibres' includes nylon, perlon and fibres such as those known as Terylene, Grilon, Enkalon and Orlon; it is defined as 'extruded filaments or fibres, produced from substances obtained by chemical synthesis'.
- (b) The term 'Other man-made fibres' includes rayon, acetate, alginates and fibres such as those known as Fibrolane and Ardil; it is defined as 'extruded filaments or fibres of substances derived from cellulose, protein, algae, or similar animal or vegetable material'.
- (c) The total quantity of electricity generated in firms' own establishments in this industry in 1954 was 134,526 Th.kWh.

Part II - Wool, virgin, on a clean scoured basis, used
Larger establishments in the United Kingdom

TABLE 9 (contd.)

	Quantity
	Th. lb.
Wool, virgin (including wool obtained from skins) on a clean scoured basis	
Used in woollen spinning and felting	
Merino, 60's quality and above	51,540
Other, above 50's to 58's	35,753
Other, 50's and below	82,959
Total used in woollen spinning and felting	170,252
Combed	
Merino, 60's quality and above	154,021
Other, above 50's to 58's	67,497
Other, 50's and below	53,322
Total combed	274,840
Scoured and/or carbonised only	16,949
Sorted and blended only	28,942

Average number of employees and wages, salaries
and superannuation payments (a)

Larger establishments in the United Kingdom

TABLE 10

	1951	1954
	Number	Number
Average number of employees		
Operatives	175,621	175,898
Administrative, technical and clerical employees	16,534	18,037
Total	192,155	193,935
Wages and salaries paid to	£'000	£'000
Operatives	48,629	58,523
Administrative, technical and clerical employees	11,751	13,607
Total	60,380	72,130
Wages and salaries per head	£	£
Operatives	277	333
Administrative, technical and clerical employees	711	754
Superannuation and other pension funds for employees and dependents (b)		£'000
Employers' contributions	..	1,010
Employees covered	..	Number 27,495
Pension, etc. payments to former employees and dependents (b)	..	£'000 211

- (a) The following persons, not included above, were also employed by larger establishments in this industry ('other workers' includes, for example, employees engaged in merchanting):

	1951	1954
	Number	Number
Canteen workers		
Males	88	67
Females	2,197	2,019
Total	2,285	2,086
Other workers		
Males	576	513
Females	367	367
Total	943	880
Total excluded employees	3,228	2,966

Outworkers. The firms in this industry employed 1,895 male and 2,360 female outworkers in 1951 and 1,278 male and 1,938 female outworkers in 1954, the amounts paid to them being £379,000 in 1951 and £323,000 in 1954.

- (b) The figures given relate to larger establishments in Great Britain only.

Employment in a specified week (a)

Larger establishments in the United Kingdom

TABLE 11

	1951			1954		
	Males	Females	Total	Males	Females	Total
Working proprietors	190	8	198	147	9	156
Operatives	75,041	99,122	174,163	74,371	102,005	176,376
Administrative, technical and clerical employees	11,478	5,089	16,567	12,227	5,809	18,036
Total employees	86,519	104,211	190,730	86,598	107,814	194,412

- (a) Week ended September 22, 1951, or October 30, 1954.

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