



BOARD OF TRADE

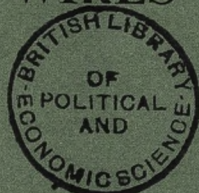
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THE REPORT
on the
CENSUS OF PRODUCTION
FOR 1951

Volume 4

Trade L

ELECTRIC WIRES AND CABLES



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

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* Not applicable to this trade

ELECTRIC WIRES AND CABLES

4/L/1

ELECTRIC WIRES AND CABLES TRADE

THIS REPORT on the Electric Wires and Cables Trade relates to establishments engaged wholly or mainly in the manufacture of insulated electric wires and cables.

This trade corresponds to minimum list heading 71 in the Standard Industrial Classification.

The decrease between 1950 and 1951 in the number of persons recorded as employed in this trade is wholly due to the reclassification of establishments to trades in accordance with the rule stated in the General Notes on the back cover of this report. It is most unlikely that there was a corresponding decrease in the number of persons employed in the production of electric wires and cables.

There were no larger establishments in Northern Ireland in the register for this trade.

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.

ELECTRIC WIRES AND CABLES TRADE

Summary

Larger establishments (a)

TABLE 1

	Great Britain						
	1951	1950	1949	1948	1946	1937	1935
Gross output (production) (b)	£'000 127,543	£'000 104,944	£'000 102,280	£'000 99,194	£'000 54,346	£'000 32,303	£'000 20,906
Cost of materials and fuel used (c)	87,579	69,317	65,121	59,438	30,335	20,029	11,723
Payment for work done on materials given out	2,293	294	231	284	165	193	119
Transport payments (d)	1,398	..	..	..	..	..	..
Net output	36,273	35,333	36,928	39,471	23,846	12,081	9,064
Wages and salaries of persons employed	18,841	19,026	18,738	19,378	12,812	..	..
Average number of persons employed (e)	No. 50,030	No. 56,670	No. 58,006	No. 63,685	No. 49,113	No. 39,240	No. 32,548
Net output per person employed (e)	£ 725	£ 623	£ 637	£ 620	£ 486	£ 308	£ 278
Stocks at end of year	£'000	£'000	£'000	£'000	£'000	£'000	£'000
Products on hand for sale and work in progress	19,652	16,905	15,920	16,759	7,434	1,908 (f)	1,303 (f)
Materials and fuel	18,604	14,870	12,551	12,529	6,884	..	..
Number of establishments	No. 77	No. 82	No. 83	No. 84	No. ..	No. ..	No. 64

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 (g)							
Principal products (h)	92,374	105,074	103,419	72,167	53,169	26,433	16,328
Other output (i)	30,060						
Changes in stocks and work in progress (j)	+ 5,109	+ 1,175	+ 428	+ 3,657	+ 1,177	+ 161 (f)	+ 246 (f)
	127,543	106,249	103,847	100,559	54,346	32,303	20,906
Less payment for transport outwards (d)	..	1,304	1,567	1,365			
Gross output (production)	127,543	104,944	102,280	99,194	54,346	32,303	20,906
Materials and fuel used by firms in this trade							
Purchases	93,451	71,513	65,329	60,689	31,075	20,029	11,723
Changes in stocks (j)	- 5,872	- 2,196	- 208	- 1,250	- 740		
Materials and fuel used	87,579	69,317	65,121	59,438	30,335	20,029	11,723

- (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 any working proprietors in 1937 and 1935. For the total numbers of persons employed in this trade see Table 3.
 (f) Work in progress only.
 (g) Total value of sales (1951, 1950, 1949, 1948 and 1946) or production for sale (1937 and 1935).
 (h) For details for 1951 and 1948 see Table 8.
 (i) For details for 1951 and 1948 see Table 10.
 (j) For details for 1951 see Table 21.

Summary

Small firms (a)

TABLE 2

	Great Britain			
	1951	1950	1949	1948
Number of returns	3	4	3	3
Average number of persons employed (b)				
Males	18	15	12	12
Females	4	4	8	8
Total	22	19	20	20

(a) Small firms employing on the average ten or fewer persons.

(b) Including working proprietors.

Estimated average employment (a)

All firms

TABLE 3

	Great Britain			
	1951	1950	1949	1948
As returned by firms				
Employing on the average more than ten persons (b)	50,030	56,670	58,006	63,685
Employing on the average ten or fewer persons (c)	22	19	20	20
Estimated average employment in firms not making satisfactory returns	-	-	-	-
Average employment in all firms	50,052	56,689	58,026	63,705

(a) Including working proprietors.

(b) See Table 14.

(c) See Table 2.

Analysis by size, 1951

Larger establishments in Great Britain

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 - 49	11	1,105	289	347	74	47	120	832
50 - 99	12	2,143	720	836	235	78	313	861
100 - 199	13	5,707	1,647	1,882	495	196	691	875
200 - 299	4	5,091	1,159	1,037	291	130	421	1,118
300 - 399	4	4,203	987	1,443	353	144	498	684
400 - 499	6	8,398	2,424	2,781	710	252	962	872
500 - 749	10	14,942	4,547	6,455	1,488	708	2,196	704
750 - 1,499	6	19,989	5,462	7,051	1,926	823	2,749	775
1,500 - 1,999	5	17,023	5,711	8,779	2,108	1,080	3,188	651
2,000 and over	6	48,942	13,327	19,419	4,976	2,726	7,702	686
Total	77	127,543	36,273	50,030	12,657	6,184	18,841	725

(a) Administrative, technical and clerical employees.

Analysis by standard region, 1951

Larger establishments in Great Britain

TABLE 5

Region	Estab- lish- ments	Gross output	Net output		Persons employed	Remuneration			Net output per person employed
			Value	Percent- age of total		Operatives	Other employees (a)	Total	
England	No.	£'000	£'000		No.	£'000	£'000	£'000	£
Northern; Eastern; South Western; Midland; and East and West Ridings	9	6,679	1,916	5.3	2,573	573	332	905	745
North Midland	7	3,613	1,065	2.9	1,172	298	106	404	909
London and South Eastern	27	44,042	12,674	34.9	16,779	4,337	2,245	6,582	755
Southern	6	18,060	5,556	15.3	5,765	1,701	644	2,345	964
North Western	23	46,873	12,641	34.9	20,399	4,936	2,516	7,452	620
Total England	72	119,266	33,852	93.3	46,688	11,845	5,843	17,687	725
Wales and Scotland	5	8,277	2,421	6.7	3,342	812	341	1,153	724
Great Britain	77	127,543	36,273	100.0	50,030	12,657	6,184	18,841	725

(a) Administrative, technical and clerical employees.

TABLE 6 - Analysis according to specialisation within the trade, 1951

Larger establishments in Great Britain

No specialisation within this trade was distinguished.

Total make of certain intermediate products

Larger establishments in Great Britain in the trade

TABLE 7

	1951		1948
	Quantity	Entries	Quantity
Other than principal products	Th. tons	No.	Th. tons
Uninsulated copper wire (a)	81.3	13	110.6

(a) For total make returned in all trades see the Wire and Wire Manufactures Trade (Volume 5, Trade D).

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

Larger establishments in Great Britain (a)

TABLE 8

	1951		1948
	Value	Entries	Value
	£'000	No.	£'000
Electric cables, wires, strips and strands, insulated			
Telegraph and telephone wires and cables	16,469	24	13,553
Other descriptions			
Paper insulated	28,377	30	26,067
Rubber insulated	33,651	34	21,690
Cotton, silk or rayon, nylon, etc. insulated	6,369	30	4,414
Enamel, glass or asbestos insulated	7,896	15	4,790
Other	7,690	32	4,017
Waste products other than scrap metals	86	27	77
Contract and other work			
Work done as main contractors on electric power and lighting lines and works (b) (c)	2,323	31	3,550
Repair and maintenance work for customers (b)	90(d)	4	304
Total	102,950	..	78,462
Sales in other trades (see Table 9)	10,576	..	6,295
Principal products of this trade sold by establishments in the trade	92,374	50	72,167

(a) Including a small amount of production by establishments in Northern Ireland classified to other trades.

(b) Value of work done during the year, exclusive of the value of goods used by firms and recorded as their output. The total value of these goods is estimated at £1,980,000 for 1951 and £3,250,000 for 1948.

(c) Excluding work done in the Building and Contracting Trades (Volume 12, Trades A to E).

(d) Including a small amount of research and development work.

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

Larger establishments in Great Britain (a)

TABLE 9

	1951		1948
	Value	Entries	Value
	£'000	No.	£'000
Electric cables, wires, strips and strands, insulated			
Telegraph and telephone wires and cables	5,190	7	3,733
Other descriptions			
Rubber insulated	2,043	5	401
Cotton, silk or rayon, nylon, etc. insulated	106	5	62
Enamel, glass or asbestos insulated	31	..	3
Other, including paper insulated	2,327	7	1,490
Contract and other work			
Work done as main contractors on electric power and lighting lines and works (b)	879	24	607
Total	10,576	..	6,295

(a) Including a small amount of production by establishments in Northern Ireland classified to other trades.

(b) Value of work done during the year, exclusive of the value of goods used by firms and recorded as their output.

Sales in the trade of other than principal products: Larger establishments in Great Britain

TABLE 10

	1951		1948	
	Quantity	Value	Quantity	Value
Joint boxes	..	£'000 1,247	..	£'000 1,835
Cable jointing materials and accessories (except insulating materials)	..	990	..	555
Fuses and fuse gear	..	900	..	864
Electrical insulating materials	..	737	..	422
Other electrical goods and apparatus	..	5,259	..	6,347
Copper wire, uninsulated	Th. tons			
Stranded wire	{ 7.2	{ 2,001	..	6,437
	{ ..	{ 35		
Other	{ 17.9	{ 4,835		
	{ ..	{ 404		
Other manufactures of non-ferrous metals	..	9,757	..	5,637
Scrap metals sold				
Copper	{ 6.8	{ 1,296	..	675
	{ ..	{ 78		
Iron and steel	3.0	12		
Brass	0.7	100		
Other metals	..	261	..	1,016
Machinery and plant, and parts thereof, other than electrical machinery	..	404		
Other goods	..	713		
Contract and other work (except work done as main contractors on electric power and lighting lines and works, and repair and maintenance work for customers) (a)		1,032		948
Total		30,060		24,735

(a) Value of work done during the year, exclusive of the value of goods used by firms and recorded as their output. The value of these goods is estimated at £998,000 for 1951 and £680,000 for 1948.

TABLE 11 Production, exports and imports of certain principal products (a)

		Production (b) (c)	Exports (d)	Retained imports (e)
		£'000	£'000	£'000
Electric cables, wires, strips and strands, insulated				
Telegraph and telephone wires and cables	{ 1951	16,469	6,378	47
	{ 1948	13,553	7,933	7
	{ 1937	5,088	917	11
Other descriptions				
Paper insulated	{ 1951	28,377	6,673	..
	{ 1948	26,067	7,822	1
	{ 1937	10,824	1,385	262
Rubber insulated	{ 1951	33,651	6,349	..
	{ 1948	21,690	5,243	6
	{ 1937	8,426	1,526	197
Cotton, silk or rayon, nylon, etc. insulated	{ 1951	6,369	695	..
	{ 1948	4,414	839	..
Enamel, glass or asbestos insulated	{ 1951	7,896	987	101
	{ 1948	4,790	411	152
Other	{ 1951	7,690	2,479	..
	{ 1948	4,017	927	..
Total other than telegraph and telephone wires and cables	{ 1951	83,982	17,183	150
	{ 1948	60,978	15,242	171
	{ 1937	22,173	3,480	582

(a) Figures of production (or sales) refer only to larger establishments. All recorded exports from and imports into the United Kingdom are given in the table. The figures therefore, are not strictly comparable.

(b) Sales in 1951 and 1948, and production for sale in 1937.

(c) Including production (or sales) by establishments classified to other trades.

(d) Valued f.o.b.

(e) Valued c.i.f.

Usage of certain specified purchased materials, 1951

Larger establishments in Great Britain

TABLE 12

Materials used	Quantity
	Th. tons
Pig iron, and iron castings in the rough	10.4
Non-alloy steel	
Ingots, billets, blooms, slabs, rails, sleepers, fishplates and soleplates	0.1
Angles, shapes and sections	1.2
Girders, joists, beams and pillars (not fabricated)	0.2
Bars and rods	2.5
Hoop and strip (including tape)	13.7
Tin-, terne-, and black-plates and sheets, and electrical sheets	1.0
Other plates and sheets	
1/8 inch thick and over	1.0
Under 1/8 inch thick	0.7
Tubes and fittings	0.4
Wire (single wire)	31.2
Forgings in the rough, other than drop forgings	-
Drop forgings	0.1
Castings in the rough	0.1
Alloy steel (including high-speed steel)	
Ingots, billets, blooms, slabs, bars, rods, angles, shapes, sections, girders, joists and pillars (not fabricated)	0.1
Plates, sheets and strip	0.2
Tubes and fittings	-
Wire (single wire)	0.1
Forgings in the rough, other than drop forgings	-
Drop forgings	-
Castings in the rough	-
Non-ferrous metals in all forms (except finished parts)	Th.cwts.
Antimony	1.1
Brass and other copper alloys, including nickel silver but excluding other nickel alloys	104.8
Copper	3,721.1
Lead and alloys of lead	1,515.9
Nickel and nickel alloys, excluding nickel silver	10.7
Tin	9.6
Lead compounds	6.4
Zinc compounds	16.2
Timber (other than reclaimed), including that used for packing or packing case manufacture but excluding joinery, other fabricated woodwork and purchased packing cases	Th.cu.ft.
Hardwood	405.7
Softwood	1,157.2
Cotton yarn, thread and cloth	Th.lbs.
Rayon, nylon, etc. yarn, thread and cloth	9,189.5
	416.0

TABLE 13
Employment in September
Larger establishments (a)
(i) Operatives

	Great Britain						Number
	1951(b)	1950(b)	1949(h)	1948(c)	1937(c)	1935(c)	
Males							
Under 18	832	980	1,033	1,368	3,007	2,591	
All ages	24,588	26,801	28,414	32,761	23,210	19,364	
Females							
Under 18	560	655	588	809	3,178	2,167	
All ages	12,455	14,503	14,514	16,571	9,258	6,986	
Total							
Under 18	1,392	1,635	1,621	2,177	6,185	4,758	
All ages	37,043	41,304	42,928	49,332	32,468	26,350	

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

	Great Britain						Number
	1951	1950	1949	1948	1937	1935	
Males							
Under 18	313	370	386	409	597	391	
All ages	8,628	9,574	9,161	9,575	4,982	4,624	
Females							
Under 18	780	754	787	937	425	231	
All ages	4,427	5,031	4,884	4,778	1,790	1,574	
Total							
Under 18	1,093	1,124	1,173	1,346	1,022	622	
All ages	13,055(e)	14,605(e)	14,045(e)	14,353(e)	6,772	6,198	

(iii) Total employees Number

	Great Britain						Number
	1951	1950	1949	1948	1937	1935	
Males							
Under 18	1,145	1,350	1,419	1,777	3,604	2,982	
All ages	33,216	36,375	37,575	42,336	28,192	23,988	
Females							
Under 18	1,340	1,409	1,375	1,746	3,603	2,398	
All ages	16,882	19,534	19,398	21,349	11,048	8,560	
Total							
Under 18	2,485	2,759	2,794	3,523	7,207	5,380	
All ages	50,098(e)	55,909(e)	56,973(e)	63,685(e)	39,240	32,548	

(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 (e.g., employees engaged in merchanting):-

Canteen workers	17	Males	400	Females	
Other workers	163	Males	39	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. No working proprietors were recorded in this trade for any post-war year. The 1937 and 1935 figures include any working proprietors.

TABLE 14
Average employment
Larger establishments (a) Number

	Great Britain						Number
	1951	1950	1949	1948	1937	1935	
Operatives	36,993	42,167	43,951	49,332	32,468	26,350	
Administrative, technical and clerical employees	13,037	14,503	14,055	14,353(b)	6,772(b)	6,198(b)	
Total	50,030	56,670	58,006	63,685	39,240	32,548	

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

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

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

	Great Britain					
	1951	1950	1949	1948	1937	1935
Males	-	-	35	4	..	..
Females	196	50	208	290	..	..
Total	196	50	243	294	..	..

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	21,932	175,473	13
Continuous 4 shift systems per 24 hours averaging 6 hours per shift	-	-	-
All 2 shift systems	36,884	367,922	22
Other shift systems	1,552	14,586	2
Total	60,367	557,981	(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	50	32	37,043	33,210	11,837
Percentage of total in trade	100.0	64.0	100.0	89.7	32.0
Percentage of total on returns showing shift-work				100.0	35.6

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

Larger establishments

	Great Britain			
	1951	1950	1949	1948
Wages and salaries (a) of				
Operatives	12,657	12,613	12,761	13,885
Administrative, technical and clerical employees	6,184	6,413	5,977	5,493
Total	18,841	19,026	18,738	19,378
Employers' contributions to all National Insurance Schemes	486	542	556	491

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

Great Britain			
1951	1950	1949	1948
17	7	24	25

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

Larger establishments

	Great Britain		
	1951	1949	1948
Plant, machinery and vehicles			
Acquisitions			
Plant and machinery			
New	1,698	1,997	1,653
Second-hand	13	15	14
Vehicles			
New	179	130	120
Second-hand	29	14	14
Total acquisitions	1,919	2,156	1,801
Disposals			
Plant and machinery			
Vehicles	42	299	53
	24	45	9
Total disposals	66	344	62
New building work			
Capital expenditure on new building and other constructional work of a capital nature (excluding site values and development charges)	577	570	648

1951

NOTE - Owing to the risk of disclosure of information relating to individual firms, separate particulars for larger establishments in Wales and Scotland cannot be given.

Summary

Larger establishments

	England	Wales (a)	Scotland (a)	Great Britain
	£'000	£'000	£'000	£'000
Gross output (production)	119,266	8,277	..	127,543
Cost of materials and fuel used	84,195	5,677	..	87,579
Payment for work done on materials given out	1,219	179	..	2,293
Transport payments				1,398
Net output	33,852	2,421	..	36,273
Wages and salaries of persons employed	17,687	1,153	..	18,841
Average number of persons employed (b)	No.	No.	No.	No.
	46,688	3,342	..	50,030
Net output per person employed (b)	£	£	£	£
	725	724	..	725
Stocks at end of year	£'000	£'000	£'000	£'000
Products on hand for sale and work in progress	17,965	1,688	..	19,652
Materials and fuel	17,341	1,264	..	18,604
Number of establishments	No.	No.	No.	No.
	72	5	..	77

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

	£'000	£'000	£'000	£'000
Output of firms in this trade				
Total value of sales (see Table 20)	114,786	7,649	..	122,434
Changes in stocks and work in progress (see Table 21)	+ 4,480	+ 629	..	+ 5,109
Gross output (production)	119,266	8,277	..	127,543
Materials and fuel used by firms in this trade				
Purchases	89,548(c)	6,196(c)	..	93,451
Changes in stocks (see Table 21)	- 5,353	- 519	..	- 5,872
Materials and fuel used	84,195(c)	5,677(c)	..	87,579

(a) Owing to the risk of disclosure of information relating to individual firms, particulars for Scotland cannot be given separately and have been included with those for Wales.

(b) Excluding outworkers.

(c) Including payment for work done on materials given out.

TABLE 19 - Summary: Small firms

See Table 2. There were no small firms in Wales or Scotland in the register for this trade.

Sales in the trade
Larger establishments

TABLE 20

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
	Th. tons	£'000		£'000	Th. tons	£'000
Principal products						
Electric cables, wires, strips and strands, insulated						
Telegraph and telephone wires and cables	..	11,279	-	-	..	11,279
Other descriptions						
Rubber insulated	..	(a)	..	(a)	..	31,608
Cotton, silk or rayon, nylon, etc. insulated	..	6,263	-	-	..	6,263
Enamel, glass or asbestos insulated	..	7,865	-	-	..	7,865
Other, including paper insulated	..	(a)	..	(a)	..	33,739
Waste products other than scrap metals	..	(a)	..	(a)	..	86
Contract and other work carried out in Great Britain						
Work done as main contractors on electric power and lighting lines and works (b)		1,443		-		1,443
Repair and maintenance work for customers (b) (c)		90		-		90
Total principal products		(a)		(a)		92,374
Other output						
Joint boxes	..	(a)	..	(a)	..	1,247
Cable jointing materials and accessories (except insulating materials)	..	990	-	-	..	990
Fuses and fuse gear	..	900	-	-	..	900
Electrical insulating materials	..	737	-	-	..	737
Other electrical goods and apparatus	..	5,259	-	-	..	5,259
Copper wire, uninsulated						
Stranded wire	..	(a)	..	(a)	{ 7.2	2,001
Other	{ 17.9	{ 4,835	{ -	{ -	{ 17.9	4,835
	..	404	-	-	..	404
Other manufactures of non-ferrous metals	..	9,757	-	-	..	9,757
Scrap metals sold						
Copper	..	(a)	..	(a)	{ 6.8	1,296
Iron and steel	..	(a)	..	(a)	3.0	12
Brass	..	(a)	..	(a)	0.7	100
Other metals	..	(a)	..	(a)	..	261
Machinery and plant, and parts thereof, other than electrical machinery	..	404	-	-	..	404
Other goods	..	713	-	-	..	713
Contract and other work carried out in Great Britain (except work done as main contractors on electric power and lighting lines and works, and repair and maintenance work for customers) (b)						
		(a)		(a)		1,032
Total		(a)		(a)		122,434

- (a) Owing to the risk of disclosure of information relating to individual firms, separate particulars cannot be given.
 (b) Value of work done during the year, exclusive of the value of goods used by firms and recorded as their output. The total value of these goods was recorded as £2,620,000 for 1951 and £3,751,000 for 1948.
 (c) Including a small amount of research and development work.

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

TABLE 21

		£'000
		Great Britain
Products on hand for sale	{ at beginning of year	6,867
	{ at end of year	8,323
Work in progress	{ at beginning of year	7,676
	{ at end of year	11,329
Total products on hand for sale and work in progress	{ at beginning of year	14,543
	{ at end of year	19,652
Materials and fuel	{ at beginning of year	12,732
	{ at end of year	18,604

TABLE 22 - Employment in September: Larger establishments
See Table 13.

TABLE 23 - Average employment: Larger establishments
See Table 14. No outworkers were employed in Scotland.

TABLE 24 - Wages and salaries and employers' National Insurance contributions paid during the year: Larger establishments
See Table 16.

TABLE 25 - Plant, machinery and vehicles - acquisitions and disposals, and capital expenditure on new building work: Larger establishments
See Table 17.

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

TABLE 26

	England and Wales	Scotland	Great Britain
Amounts paid to other firms and undertakings	(a)	(a)	1,382
Amount paid or credited to firms' own separate transport organisations	17	-	17
Total	(a)	(a)	1,398

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

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 merchanting 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, merchantable 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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