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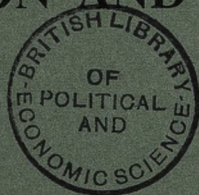
BOARD OF TRADE

THE REPORT
on the
CENSUS OF PRODUCTION
FOR 1951

Volume 3

Trade F

WROUGHT IRON AND STEEL TUBES



*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

WROUGHT IRON AND STEEL TUBES TRADE

THIS REPORT on the Wrought Iron and Steel Tubes Trade relates to establishments engaged wholly or mainly in the manufacture of tubes (including fittings) for boilers, cycles, bedsteads, etc.; metal conduits; gas cylinders and pressure vessels. Melting and rolling in integrated works and the manufacture of flexible tubes are included.

This trade corresponds to minimum list heading 44 in the Standard Industrial Classification.

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.

WROUGHT IRON AND STEEL TUBES TRADE

Summary

Larger establishments (a)

TABLE 1

	Great Britain					
	1951	1950	1949	1948	1937	1935
	£'000	£'000	£'000	£'000	£'000	£'000
Gross output (production) (b)	97,714	84,957	71,469	58,252	22,515	16,318
Cost of materials and fuel used (c)	60,604	54,867	45,916	35,532	12,192	9,467
Payment for work done on materials given out	766	730	612	448	111	92
Transport payments (d)	2,692	..	..	..	..	..
Net output	33,651	29,360	24,941	22,271	10,212	6,759
Wages and salaries of persons employed	17,403	16,009	14,485	12,790	..	..
	No.	No.	No.	No.	No.	No.
Average number of persons employed (e)	42,416	41,621	40,169	37,775	31,483	27,645
	£	£	£	£	£	£
Net output per person employed (e)	793	705	621	590	324	244
	£'000	£'000	£'000	£'000	£'000	£'000
Stocks at end of year						
Products on hand for sale and work in progress	8,030	7,523	6,473	5,275	..	..
Materials and fuel	9,223	8,366	6,899	6,215	..	..
	No.	No.	No.	No.	No.	No.
Number of establishments	156	137	135	128	..	91

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

	£'000	£'000	£'000	£'000	£'000	£'000
Output of firms in this trade (f)						
Principal products (g)	91,530	86,024	71,810	54,548	21,457	15,552
Other output (h)	5,503					
Changes in stocks and work in progress (i)	+ 680	+ 884	+1,375	+ 670		
	97,714	86,908	73,185	59,643	22,515	16,318
Less payment for transport outwards (d)	..	1,951	1,717	1,391		
Gross output (production)	97,714	84,957	71,469	58,252	22,515	16,318
Materials and fuel used by firms in this trade						
Purchases	61,339	56,224	46,417	36,564	12,192	9,467
Changes in stocks (i)	- 735	-1,357	- 502	-1,032		
Materials and fuel used	60,604	54,867	45,916	35,532	12,192	9,467

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

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

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

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

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

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

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

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

(i) For details for 1951 see Table 21.

Summary
Small firms (a)

TABLE 2

	Great Britain			
	1951	1950	1949	1948
Number of returns	33	22	26	28
Average number of persons employed (b)				
Males	159	111	137	147
Females	47	29	21	29
Total	206	140	158	176

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

(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)	42,416	41,621	40,169	37,775
Employing on the average ten or fewer persons (c)	206	140	158	176
	42,622	41,761	40,327	37,951
Estimated average employment in firms not making satisfactory returns	13	33	25	45
Estimated average employment in all firms	42,635	41,794	40,352	37,996

(a) Including working proprietors.

(b) See Tables 13(iv) and 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 - 24	28	911	344	525	129	55	184	656
25 - 49	33	2,069	772	1,137	310	96	406	679
50 - 99	31	3,039	1,453	2,295	639	173	812	633
100 - 199	22	5,879	2,443	3,112	905	263	1,168	785
200 - 299	9	4,038	1,645	2,212	722	199	922	744
300 and over	33	81,779	26,993	33,135	10,664	3,248	13,912	815
Total	156	97,714	33,651	42,416	13,368	4,035	17,403	793

(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	
	No.	£'000	£'000		No.	£'000	£'000	£'000	£
England and Wales									
Northern	7	3,097	1,041	3.1	1,422	479	98	577	732
East and West Ridings; and North Western	8	1,658	836	2.5	971	281	85	365	861
North Midland; and Eastern	9	24,623	6,831	20.3	6,723	2,174	860	3,034	1,016
London and South Eastern; Southern; South Western; and Wales	26	9,284	3,784	11.2	4,747	1,500	523	2,023	797
Midland	88	43,770	16,340	48.6	22,094	6,829	1,880	8,709	740
Total England and Wales	138	82,432	28,832	85.7	35,957	11,262	3,446	14,708	802
Scotland	18	15,281	4,819	14.3	6,459	2,106	588	2,695	746
Great Britain	156	97,714	33,651	100.0	42,416	13,368	4,035	17,403	793

(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.

TABLE 7 - Total make of intermediate products: Larger establishments in Great Britain

This table is not applicable to the trade.

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

Larger establishments in Great Britain

TABLE 8

	1951			1948	
	Quantity	Value	Entries	Quantity	Value
	Th. tons	£'000	No.	Th. tons	£'000
Wrought tubes					
Not exceeding 6 inches internal diameter, other than electric conduit, cased and close joint tubes					
Welded	520.2	22,266	21	331.7	12,618
Seamless					
Cold drawn	97.1	10,591	18	118.1	12,577
Other descriptions	..	5,158			
Exceeding 6 inches internal diameter	251.7	14,611	19	213.0	9,764
Welded	94.2	4,843	..	46.8	2,055
Seamless	195.6	9,763	8	123.4	5,187
Electric conduit tubes	46.9	2,750	12	43.1	2,460
Close joint tubes (other than electric conduit tubes) and cased tubes (including copper-clad and copper-lined steel tubes)	4.1	288	7	7.9	324
Unclassified	-	-	-	..	98
Total wrought tubes	1,209.8	65,112	..	884.0	44,985
Wrought fittings for wrought tubes	34.1	5,075	59	21.8	2,531
Tube fittings purchased and fabricated (a)	2.7	494	13	-	674
Purchased tubes screwed, bent or otherwise fabricated, and gas containers (cylinders, bottles, etc.)	159.3	11,851	77	64.2	4,937
Flexible metallic tubing	3.1	2,397	14	..	1,689
Work done for the trade or on commission (b)	..	1,042	..	1.2	297
Total	..	224	32	..	230
Sales in other trades (see Table 9)	..	663	..	..	340
Principal products of this trade sold by establishments in the trade	..	93,160	..	..	55,912
	..	1,630	..	..	1,364
	..	91,530	142	..	54,548

(a) So far as recorded separately.

(b) Amount charged.

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

Larger establishments in Great Britain

TABLE 9

	1951			1948	
	Quantity	Value	Entries	Quantity	Value
	Th. tons	£'000	No.	Th. tons	£'000
Wrought tubes					
Not exceeding 6 inches internal diameter (other than electric conduit, cased and close joint tubes), seamless, other than cold drawn	13.2	688	..	7.8	393(a)
Electric conduit tubes	-	-	-	..	130
Unclassified	-	-	-	..	130
Total wrought tubes	13.2	688	..	7.8	393
				..	130
Wrought fittings for wrought tubes, and tube fittings purchased and fabricated	0.7	217	11	2.6	313
	..	141	..	..	111
Purchased tubes screwed, bent or otherwise fabricated, and gas containers (cylinders, bottles, etc.)	0.3	40	6	1.5	89
	..	194	..	..	46
Flexible metallic tubing	1.2	327	..	1.1	266
			..	..	17
Work done for the trade or on commission		23(b)	..		-
Total		1,630	..		1,364

(a) Electric conduit tubes, other welded tubes not exceeding 6 inches internal diameter, and close joint tubes.

(b) Amount charged.

Sales in the trade of other than principal products

Larger establishments in Great Britain

TABLE 10

	1951		1948	
	Quantity	Value	Quantity	Value
	Th. tons	£'000	Th. tons	£'000
Iron and steel				
Malleable cast fittings for wrought tubes	..	512	..	1,006
Other castings	..	142	..	169
Other goods	..	2,350	..	1,673
Waste products sold				
Iron and steel scrap	246.9	1,039	197.6	659
Other waste and by-products	..	768	..	198
Iron and steel structural work (a)		649		677
Other work done (b)		43		42
Total		5,503		4,425

(a) Amount charged, exclusive of the value of goods made at the establishments in this trade and included against other appropriate headings in Tables 8 or 10.

(b) Amount charged.

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

TABLE 11

		Production (b) (c)	Exports	Retained imports
		Th. tons	Th. tons	Th. tons
Wrought tubes				
Not exceeding 6 inches internal diameter, other than electric conduit tubes				
Welded	{ 1951	520.2	111.2	1.1
	{ 1948	331.7	73.8	0.1
	{ 1937	344.4	104.1	0.4
Seamless				
Cold Drawn	{ 1951	144.0(d)	24.5	5.3
	{ 1948	118.1	28.7	2.9
	{ 1937	77.6	10.2	0.8
Other descriptions (including close joint tubes and all cased tubes)	{ 1951	255.7	57.7	5.7
	{ 1948	222.7(d)	66.6	8.7
	{ 1937	186.9	68.6	32.4
Exceeding 6 inches internal diameter				
Welded	{ 1951	94.2	31.0	0.2
	{ 1948	46.8	22.8	0.1
	{ 1937	65.2	17.1	0.1
Seamless	{ 1951	195.6	141.5	1.6
	{ 1948	123.4	90.3	0.8
	{ 1937	84.9	51.7	3.0
Electric conduit tubes	{ 1951	46.9	4.1	..
	{ 1948	43.1	2.0	..
	{ 1937	44.2	7.3	..
Wrought fittings for wrought tubes	{ 1951	39.0(d)	12.9	0.9
	{ 1948	27.5(d)	8.8	0.1
	{ 1937	24.2	6.5	2.2

(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) Partly estimated.

Usage of certain specified purchased materials, 1951

Larger establishments in Great Britain

TABLE 12

Materials used	Quantity
	Th. tons
Non-alloy steel	
Ingots	258.3
Blooms, billets and slabs	128.0
Tube squares and tube rounds	214.8
Hoop and strip (including tape)	610.5
Tube hollows and tube shells	80.3
Tubes purchased for further fabrication	191.8
Fittings for wrought tubes	13.0
Alloy steel	
Ingots	9.8
Blooms, billets and slabs	18.1
Tube squares and tube rounds	16.4
Tube hollows and tube shells	15.0
Tubes purchased for further fabrication	0.6
Iron and steel not specified above, except finished parts and scrap	66.3-
	Th.cwts.
Zinc in all forms, except finished parts and scrap	213.5
Aluminium in all forms, except finished parts and scrap	4.0

Employment in September
Larger establishments (a)

TABLE 13
(i) Operatives

	Great Britain						Number
	1951(b)	1950(b)	1949(b)	1948(c)	1937(c)	1935(c)	
Males							
Under 18	1,205	990	1,093(d)	1,066	2,636	2,223	
All ages	29,949	31,034	29,214	27,503	25,871	22,813	
Females							
Under 18	203	172	142(d)	226	481	354	
All ages	3,688	3,467	3,355	3,496	1,433	1,136	
Total							
Under 18	1,408	1,162	1,235	1,292	3,117	2,577	
All ages	33,637	34,501	32,569	30,999	27,304	23,949	

(ii) Administrative, technical and clerical employees (e)

	Great Britain						Number
	1951	1950	1949	1948	1937	1935	
Males							
Under 18	284	241	251(d)	253	341	197	
All ages	5,834	5,428	5,134	4,566	3,025	2,661	
Females							
Under 18	461	422	381(d)	356	269	202	
All ages	2,698	2,480	2,324	2,203	1,154	1,035	
Total							
Under 18	745	663	632	609	610	399	
All ages	8,532(f)	7,908(f)	7,458(f)	6,769(f)	4,179	3,696	

(iii) Total employees

	Great Britain						Number
	1951	1950	1949	1948	1937	1935	
Males							
Under 18	1,489	1,231	1,344(d)	1,319	2,977	2,420	
All ages	35,783	36,462	34,348	32,069	28,896	25,474	
Females							
Under 18	664	594	523(d)	582	750	556	
All ages	6,386	5,947	5,679	5,699	2,587	2,171	
Total							
Under 18	2,153	1,825	1,867	1,901	3,727	2,976	
All ages	42,169(f)	42,409(f)	40,027(f)	37,768(f)	31,483	27,645	

(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	11	Males	363	Females	
Other workers	287	Males	190	Females	

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

(c) Average for the year.

(d) Corrected figures.

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

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

(iv) Working proprietors

	Great Britain				Number
	1951	1950	1949	1948	
Males	10	5	11	7	
Females	2	-	-	-	
Total	12	5	11	7	

Average employment
Larger establishments (a)

TABLE 14

	Great Britain						Number
	1951	1950	1949	1948	1937	1935	
Operatives	34,073	33,910	32,808	30,999	27,304	23,949	
Administrative, technical and clerical employees	8,331	7,706	7,350	6,769(b)	4,179(b)	3,696(b)	
Total	42,404	41,616	40,158	37,768	31,483	27,645	

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

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

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

	Great Britain					
	1951	1950	1949	1948	1937	1935
Males	4	-	-	5	..	..
Females	23	4	1	9	..	..
Total	27	4	1	14	..	..

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	25,433	203,567	17
Continuous 4 shift systems per 24 hours averaging 6 hours per shift	504	3,024	1
All 2 shift systems	45,289	452,924	29
Other shift systems	1,984	18,792	7
Total	73,210	678,307	(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	142	44	33,637	27,608	14,437
Percentage of total in trade	100.0	31.0	100.0	82.1	42.9
Percentage of total on returns showing shift-work				100.0	52.3

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

Larger establishments

	Great Britain				£'000
	1951	1950	1949	1948	
Wages and salaries (a) of					
Operatives	13,368	12,607	11,330	10,047	
Administrative, technical and clerical employees	4,035	3,402	3,155	2,743	
Total	17,403	16,009	14,485	12,789	
Employers' contributions to all National Insurance Schemes	428	419	395	287	

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

Great Britain			
1951	1950	1949	1948
1	-	-	1

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

Larger establishments

	Great Britain			£'000
	1951	1949	1948	
Plant, machinery and vehicles				
Acquisitions				
Plant and machinery				
New	1,457	1,410	2,176	
Second-hand	79	119	133	
Vehicles				
New	115	100	56	
Second-hand	28	13	13	
Total acquisitions	1,678	1,642	2,378	
Disposals				
Plant and machinery	74	57	82	
Vehicles	14	12	14	
Total disposals	88	69	96	
New building work				
Capital expenditure on new building and other constructional work of a capital nature (excluding site values and development charges)	310	389	382	

1951

Summary

Larger establishments

TABLE 18

	England (a)	Wales (a)	Scotland	Great Britain
	£'000	£'000	£'000	£'000
Gross output (production)	82,432	..	15,281	97,714
Cost of materials and fuel used	50,833	..	9,771	60,604
Payment for work done on materials given out	600	..	167	766
Transport payments	2,168	..	524	2,692
Net output	28,832	..	4,819	33,651
Wages and salaries of persons employed	14,708	..	2,695	17,403
	No.	No.	No.	No.
Average number of persons employed (b)	35,957	..	6,459	42,416
	£	£	£	£
Net output per person employed (b)	802	..	746	793
	£'000	£'000	£'000	£'000
Stocks at end of year				
Products on hand for sale and work in progress	6,293	..	1,737	8,030
Materials and fuel	8,248	..	976	9,223
	No.	No.	No.	No.
Number of establishments	138	..	18	156

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)	82,336	..	14,698	97,034
Changes in stocks and work in progress (see Table 21)	+ 96	..	+ 584	+ 680
Gross output (production)	82,432	..	15,281	97,714
Materials and fuel used by firms in this trade				
Purchases	51,552	..	9,787	61,339
Changes in stocks (see Table 21)	- 719	..	- 16	- 735
Materials and fuel used	50,833	..	9,771	60,604

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

(b) Excluding outworkers but including working proprietors.

Summary

Small firms (a)

TABLE 19

	England (b)	Wales (b)	Scotland	Great Britain
Number of returns	33	..	-	33
Average number of persons employed (c)				
Males	159	..	-	159
Females	47	..	-	47
Total	206	..	-	206

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

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

(c) Including working proprietors.

Sales in the trade
Larger establishments

TABLE 20

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Principal products						
Wrought tubes						
Not exceeding 6 inches internal diameter, other than electric conduit, cased and close joint tubes						
Welded	..	(a)	..	(a)	520.2	22,266
Seamless						
Cold drawn	..	(a)	..	(a)	97.1	10,591
Other descriptions	..	(a)	..	(a)	..	5,158
Electric conduit tubes					285.4	16,673
Exceeding 6 inches internal diameter						
Welded	..	(a)	..	(a)	94.2	4,843
Seamless	..	(a)	..	(a)	195.6	9,763
Close joint tubes (other than electric conduit tubes) and cased tubes (including copper-clad and copper-lined steel tubes)	4.1	288	-	-	4.1	288
Total wrought tubes	..	(a)	..	(a)	1,196.6	64,425
Wrought fittings for wrought tubes, and tube fittings purchased and fabricated	31.2	4,210	4.9	1,142	36.1	5,352
Purchased tubes screwed, bent or otherwise fabricated, and gas containers (cylinders, bottles, etc.)	109.1	8,650	50.0	3,160	159.0	11,811
Flexible metallic tubing	1.9	716	-	-	1.9	716
Work done for the trade or on commission (b)	..	224	..	..	..	224
Total principal products		(a)		(a)		91,530
Other output						
Iron and steel						
Malleable cast fittings for wrought tubes	..	512	-	-	..	512
Other castings	..	(a)	..	(a)	..	142
Other goods	..	2,198	..	152	..	2,350
Waste products sold						
Iron and steel scrap	194.3	794	52.6	246	246.9	1,039
Other waste and by-products	..	768	-	-	..	768
Iron and steel structural work (c)	..	621	..	27	..	649
Other work done (b)	..	43	..	-	..	43
Total		82,336		14,698		97,034

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

(b) Amount charged.

(c) Amount charged, exclusive of the value of goods made at the establishments in this trade and included against other appropriate headings.

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

Larger establishments

TABLE 21

	England and Wales			Scotland			Great Britain		
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000	
Products on hand for sale									
Work in progress									
Total products on hand for sale and work in progress									
Materials and fuel									

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

Employment in September
Larger establishments (a)(b)

TABLE 22

(i) Operatives

	England and Wales			Scotland			Great Britain		
	Number	Number	Number	Number	Number	Number	Number	Number	
Males									
Under 18	1,019	186	1,205						
All ages	24,657	5,292	29,949						
Females									
Under 18	203	-	203						
All ages	3,659	29	3,688						
Total									
Under 18	1,222	186	1,408						
All ages	28,316	5,321	33,637						

(ii) Administrative, technical and clerical employees

	England and Wales			Scotland			Great Britain		
	Number	Number	Number	Number	Number	Number	Number	Number	
Males									
Under 18	249	35	284						
All ages	4,922	912	5,834						
Females									
Under 18	415	46	461						
All ages	2,392	306	2,698						
Total									
Under 18	664	81	745						
All ages (c)	7,314	1,218	8,532						

(continued overleaf)

TABLE 22 (contd.)

(iii) Total employees	Number		
	England and Wales	Scotland	Great Britain
Males			
Under 18	1,268	221	1,489
All ages	29,579	6,204	35,783
Females			
Under 18	618	46	664
All ages	6,051	335	6,386
Total			
Under 18	1,886	267	2,153
All ages (c)	35,630	6,539	42,169

- (a) Excluded employees. The number of persons employed at the larger establishments in this trade but not included in the above tables or in any other Census of Production report (e.g., employees engaged in merchandising) are shown in Table 22(v) below.
- (b) Number employed in the week ended September 22, 1951.
- (c) Working proprietors. In addition working proprietors, shown in Table 22(iv) below, were engaged in this trade in larger establishments.

(iv) Working proprietors	Number		
	England and Wales	Scotland	Great Britain
Males	10	-	10
Females	2	-	2
Total	12	-	12

(v) Excluded employees	Number		
	England and Wales	Scotland	Great Britain
Canteen workers			
Males	10	1	11
Females	316	47	363
Total	326	48	374
Other workers			
Males	261	26	287
Females	155	35	190
Total	416	61	477
Total excluded employees	742	109	851

Average employment
Larger establishments (a)

TABLE 23	Number		
	England and Wales	Scotland	Great Britain
Operatives	28,809	5,264	34,073
Administrative, technical and clerical employees	7,136	1,195	8,331
Total	39,945	6,459	42,404

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

	England and Wales	Scotland	Great Britain
Males	4	-	4
Females	23	-	23
Total	27	-	27

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

(85576/2)

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

Larger establishments

TABLE 24	£'000		
	England and Wales	Scotland	Great Britain
Wages and salaries (a) of			
Operatives	11,262	2,106	13,368
Administrative, technical and clerical employees	3,446	588	4,035
Total	14,708	2,695	17,403
Employers' contributions to all National Insurance Schemes	361	67	428

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

£'000		
England and Wales	Scotland	Great Britain
1	-	1

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

Larger establishments

TABLE 25	£'000		
	England and Wales	Scotland	Great Britain
Plant, machinery and vehicles			
Acquisitions			
Plant and machinery			
New	1,273	183	1,457
Second-hand	63	16	79
Vehicles			
New	101	14	115
Second-hand	26	1	28
Total acquisitions	1,463	215	1,678
Disposals			
Plant and machinery	50	24	74
Vehicles	13	1	14
Total disposals	64	25	88
New building work			
Capital expenditure on new building and other constructional work of a capital nature (excluding site values and development charges)	292	18	310

(85576/2)

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	2,158	524	2,682
Amount paid or credited to firms' own separate transport organisations	10	-	10
Total	2,168	524	2,692

£'000

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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