

BOARD OF TRADE

S
H2
[HA 251]

*The Report on the
Census of Production
for 1954*

Volume 5: Industry D

WIRE AND WIRE MANUFACTURES



*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)*

LONDON: HER MAJESTY'S STATIONERY OFFICE

1957

TWO SHILLINGS NET

The Report on the Census of Production for 1954

VOLUME 5 INDUSTRY D

WIRE AND WIRE MANUFACTURES

THIS REPORT on the Wire and Wire Manufactures Industry relates to establishments engaged wholly or mainly in the manufacture of ferrous and non-ferrous wire, and wire products such as wire nails, wire netting, wire gauze, wire brushes, etc. The manufacture of insulated electrical wire and cables and of wire mattresses and springs is excluded.

This industry corresponds to minimum list heading 93 in the Standard Industrial Classification.

LIST OF TABLES

Table No.	Title	Page	Table No.	Title	Page
1	Industry summary: estimates for the industry as a whole	5/D/3	6	Sales of principal products of the industry by establishments classified to other industries	5/D/8
2	Summary of returns received	5/D/3	7	Sales in the industry of other than principal products	5/D/9
3	Analysis by size, 1954	5/D/4	8	Total quantity of wire drawn from wire rods or purchased wire	5/D/10
4	Analysis according to specialisation within the industry, 1954	5/D/4	9	Purchases of materials and fuel, 1954	5/D/11
5	Sales of principal products of the industry, including sales of these products by establishments classified to other industries	5/D/5	10	Average number of employees and wages, salaries and superannuation payments	5/D/12
			11	Employment in a specified week	5/D/13

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

S
H2
[HA 251]

30.10.57

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.

Industry summary

Estimates for the industry as a whole

TABLE 1

	United Kingdom			Scotland 1954	Wales 1954
	1948	1951	1954		
Gross output (production)	£ million 66.1	£ million 98.8	£ million 114.2	£ million 7.10	£ million 6.33
Net output	22.4	29.2	30.8	2.80	1.85
Total stocks and work in progress					
At beginning of year	7.3	11.1	12.1	1.14	0.68
Change during year	+ 1.5	+ 1.1	+ 2.2	+ 0.09	+ 0.15
Capital expenditure less disposals (a)	2.0	2.1	2.5	0.14	0.12
Wages and salaries	11.7	14.3	16.7	1.50	0.75
Total employment (including working proprietors)	Thousands 36.2	Thousands 36.7	Thousands 35.1	Thousands 3.71	Thousands 1.55

(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.	277	293	283
Total value of sales and work done	£'000	64,518	95,373	108,641
Products on hand for sale		3,115	5,255	5,594
{ at beginning of year				
{ change during year		+ 497	+ 240	+ 1,179
Gross output (production) (a)		63,832	95,613	109,821
Purchases of materials and fuel		42,752	65,841	78,583
Stocks of materials and fuel		3,898	5,462	6,013
{ at beginning of year				
{ change during year		+ 966	+ 852	+ 966
Cost of materials and fuel used		41,786	64,989	77,617
Payment for work done on materials given out		453	377	385
Payment for transport (b)		1,182	1,959	2,232
Net output		21,593	28,287	29,587
Average number of employees	No.	29,514	29,243	27,348
{ operatives				
{ others		5,432 (c)	6,197	6,355
Total employment (d)		34,974	35,469	33,729
Net output per person employed (d)	£	617	798	877
Wages and salaries	£'000	8,832	10,528	12,242
{ of operatives				
{ of others		2,427	3,281	3,809
Capital expenditure				
New building work (e)		495	338	576
Plant and machinery		1,370	1,549	1,664
{ acquisitions (e)		61	50	83
{ disposals		174	269	319
Vehicles		34	63	106
{ acquisitions (e)				
{ disposals				
FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS				
Number of returns	No.	178	180 (f)	189
Total employment, including working proprietors		1,015	1,070 (f)	1,075

(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.

WIRE AND WIRE MANUFACTURES

Analysis by size, 1954

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	£
						335	98	91	753
11 - 24	63	2,220	839	939	157	664	231	123	722
25 - 49	67	4,511	1,615	1,847	384	1,378	490	371	870
50 - 99	59	11,865	3,653	3,406	789	2,152	677	306	791
100 - 199	47	14,769	5,101	5,279	1,169	1,679	623	317	837
200 - 299	18	14,279	3,933	3,735	966	1,449	295	252	975
300 - 399	10	12,140	3,343	2,853	575	1,294	284	261	875
400 - 499	7	11,744	2,786	2,693	489	3,291	1,110	839	988
500 and over	12	38,293	8,317	6,596	1,826				
Total	283	109,821	29,587	27,348	6,355	12,242	3,809	2,559	877

(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.

Analysis according to specialisation within the industry, 1954

Larger establishments in the United Kingdom

TABLE 4

	Unit	Establishments specialising in the		Establishments engaged in the drawing and working of wire	Total
		Drawing of wire	Working of wire		
Number of establishments	No.	81	173	29	283
Total value of sales and work done	£'000	58,070	27,541	23,030	108,641
Sales of characteristic products	"	48,989	26,149	20,925	5,594
Products on hand for sale and work in progress	"	2,590	1,555	1,449	+ 1,179
Gross output (production)	"	+ 857	+ 255	+ 68	109,821
Purchases of materials and fuel	"	58,927	27,795	23,098	78,583
Stocks of materials and fuel	"	45,581	16,980	16,022	6,013
Cost of materials and fuel used	"	2,864	2,041	1,108	+ 966
Payment for work done on materials given out	"	+ 358	+ 322	+ 286	77,617
Payment for transport	"	45,223	16,658	15,735	385
Net output	"	208	155	22	2,232
Average number of employees	No.	866	731	635	29,587
Total employment (a)	"	12,630	10,252	6,706	27,348
Net output per person employed (a)	"	10,886	10,476	5,986	6,355
Wages and salaries	"	2,231	2,818	1,306	33,729
Capital expenditure	"	13,117	13,320	7,292	877
New building work (b)	£'000	963	770	920	12,242
Plant and machinery	"	5,528	3,891	2,823	3,809
Vehicles	"	1,367	1,664	778	576
	"	274	129	172	1,664
	"	910	382	372	83
	"	64	10	9	319
	"	101	183	35	106
	"	27	70	9	

(a) Excluding outworkers and including working proprietors.
 (b) Excluding expenditure for establishments not yet in production.

WIRE AND WIRE MANUFACTURES

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		Entries
	Quantity	Value	Quantity	Value	
Iron and steel wire (except insulated wire)	Th. tons	£'000	Th. tons	£'000	Number
Single wire					
Fencing	11.3	518	21.4	1,071	12
Hard steel	164.0	11,945	190.5	14,954	44
Mild steel	411.1	17,868	462.2	22,836	65
Other	41.1	3,275	25.7	2,407	20
Stranded wire of two or more ply			..	278	
Barbed wire	21.5	1,275	24.4	1,556	10
Other	8.6	619	8.9	656	10
Total iron and steel wire (except insulated wire)	657.5	35,500	733.2	43,479	..
Manufactures of iron and steel wire					
Wire cable and rope (except insulated telephone and telegraph cable)	99.2	11,949	90.1	12,183	47
Wire netting, wire fencing and wire mesh of all kinds					
Hexagonal mesh, galvanised	23.2	2,511	22.1	2,009	8
Chain link fencing	14.1	1,052	..	353	19
Reinforcement fabric	50.2	2,501	12.3	885	13
Woven wire cloth, gauze, fabric, screening, sieving, lawn or meshing, square and rectangular mesh (other than mesh for paper machine (fourdrinier) wires and pot scourers)			..	338	
Mesh from 2 and up to 30 per lineal inch	Th. sq. ft.		Th. sq. ft.		
	2,825	188	451	54	
	6,565		9,748		
	Th. tons	410	Th. tons	524	19
	1.8		2.3		
	-		0.3	118	
			..	168	
Mesh over 30 per lineal inch	Th. sq. ft.		Th. sq. ft.		
	5,436	241	251	25	
	648		986		
	Th. tons	116	Th. tons	154	14
	0.1		0.9		
	5.6	527	6.1	657	
Pot scourers made wholly or partly of woven or knitted mesh	Th. cwt.		Th. cwt.		
	0.7	23	1.1	36	6
	..	34	..	15	
Other	Th. tons		Th. tons		
	9.2	867	13.1	1,100	21
Nails and tacks (including staples other than insulated) made from wire	88.6	3,977	77.0	3,946	23
Fire, machinery and window guards made of wire	3.8	797	1.8	441	92
	..	330	..	857	
Canteen, restaurant and domestic cooking equipment made of wire (e.g., potato baskets, cooker shelves and grids)	2.1	302	0.3	66	43
	..	36	..	291	

TABLE 5 (contd.)

	1951		1954		Entries
	Quantity	Value	Quantity	Value	
	Th. tons	£'000	Th. tons	£'000	Number
Manufactures of iron and steel wire (contd.)					
Sieves, riddles and screens	1.6	249	1.3	189	36
	..	39	..	125	
Wire brushes (a)	Th. doz. 414.7	571	Th. doz. 362.7	653	49
	..	115	..	73	
Wire rods and bars purchased and fabricated for concrete reinforcement (b)	Th. tons 25.9	1,090	Th. tons 47.4	2,437	12
	..	116	..	396	
Wire of iron or steel purchased, plated, cut, etc., and not further manufactured	{ 19.1	2,465	13.2	1,451 (b)	8
		..	700	{ 3.8		753
Other manufactures of iron and steel wire (c)	..	..	..	2,543	110
Total manufactures of iron and steel wire (c)		31,208		36,457	..
Brass and other copper alloys including nickel silver and cupro-nickel, but excluding all other nickel alloys					
Wire in coils					
Circular section, thinner than No.20 gauge (S.W.G.)					
Of brass	2.2	767	1.7	644	21
Of other alloys of copper	1.5	724	0.4	249	16
Circular section, No.20 gauge (S.W.G.) and thicker					
Of brass	18.3	4,965	19.3	5,153	21
Of other alloys of copper	5.3	1,811	3.3	1,407	18
Other descriptions (including stranded wire)	0.7	252	0.8	319	7
Paper machine wires					
	Th. sq. ft. 4,247	992	Th. sq. ft. 940	251	5
	Th. cwt. 13.0		Th. cwt. 3,831			Th. cwt. 10.4
Woven wire cloth, gauze, fabric, screening, sieving, lawn or meshing, square and rectangular mesh, other than paper machine (fourdrinier) wires					
Mesh from 2 and up to 30 per lineal inch	4.5	160	Th. sq. ft. 296	52	14
	..	64	1,768	234	
Mesh over 30 per lineal inch	4.9	318	Th. sq. ft. 246	58	15
	..	203	1,479	350	
Other manufactures of brass, etc. wire	0.2	40	..	80	30
	..	257	..	294	
Total brass, etc., wire and manufactures thereof		10,553		9,995	..
Copper					
Wire in coils (including uninsulated electric wire)					
Circular section					
Thinner than No.20 gauge (S.W.G.)	11.7	3,274	10.7	3,440	21
No. 20 gauge (S.W.G.) and thicker	37.3	9,555	33.4	9,897	16
Unclassified	16.3	4,420	14.1	4,169	10
(58415)	..	404	..	776	

TABLE 5 (contd.)

	1951		1954		Entries
	Quantity	Value	Quantity	Value	
	Th. tons	£'000	Th. tons	£'000	Number
Copper (contd.)					
Wire in coils (including uninsulated electric wire) (contd.)					
Other than circular section					
Stranded wire	4.4	1,190	4.3	1,378	11
Wire cloth	12.1	3,397	11.3	3,752	28
	..	..	..	588	
Other manufactures of copper wire	0.1	108	0.1	68	11
	..	19	..	78	
Total copper wire and manufactures thereof	Th. cwt. 2.7	88	Th. cwt. 6.1	150	26
	..	291	..	131	
		22,747		24,427	..
Aluminium					
Wire					
Pure	5.5	1,451	4.0	1,290	13
Alloy	5.3	1,443	1.8	786	13
Manufactures of aluminium wire					
Aluminium wire or cable, steel cored, uninsulated (b)	0.2	106	0.2	64	19
	..	..	..	35	
Molybdenum wire, in all forms except ferro-alloys	-	-	10.1	2,284	..
	Th. cwt. 0.2	103	Th. cwt. 0.1	68	
Nickel wire	..	95	..	171	5
	..	..	..	436	
Nickel alloys (other than nickel silver and cupro-nickel)	{ 59.0	2,467	10.3	436	9
	..	224			
Wire	..	..	65.5	2,867	17
Manufactures of nickel alloy wire	1.5	225	4.3	234	10
	..	24			
Wire of metals not specified above (excluding precious metals)	0.1	24	6.9	426	16
	..	474				..	252
Non-ferrous wire, other than copper, unclassified	..	225	..	222	7
Work done for the trade or on commission (d)	..	547	..	457	59
Total		107,418		124,226	..
Sales in other industries (see Table 6)					
Principal products of this industry sold by establishments in the industry					
		84,438		96,917	261

(a) May include brushes filled with wire of unspecified metals.

(b) So far as recorded separately.

(c) Excluding upholstery and mattress springs and bifurcated rivets made from wire, for which see the report on the Chain, Nail, Screw and Miscellaneous Forgings Industry (Volume 5, Industry C).

(d) Amount charged.

WIRE AND WIRE MANUFACTURES

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	
Iron and steel wire (except insulated wire)	Th.tons 94.4	£'000 4,482	Number 13	3B, 4D, 5C, 5G
Manufactures of iron and steel wire				
Wire cable and rope (except insulated telephone and telegraph cable)	2.1	285	8	3I, 4L, 5C, 6I
Wire netting, wire fencing and wire mesh of all kinds	0.1	10	5	5C, 12A
Chain link fencing	..	110		
Other	1.3	305	9	
	0.1	17	31	3C, 5C, 5E
Fire, machinery and window guards made of wire	..	287		
	Th.doz. 235.6	382	40	11C
Wire brushes	..	18		
	Th.tons 40.8	2,284	40	
Other manufactures of iron and steel wire	..	562		
Total manufactures of iron and steel wire		4,282	..	
Brass and other copper alloys including nickel silver and cupro-nickel, but excluding all other nickel alloys				
Wire in coils				
Circular section, thinner than No.20 gauge (S.W.G.)				
Of brass	0.2	91	7	3G
Of other alloys of copper	0.2	80	6	3G, 4L, 5K
Circular section, No.20 gauge (S.W.G.) and thicker				
Of brass	5.9	1,393	12	3G
Of other alloys of copper	0.8	347	7	3G
Other descriptions (including stranded wire)	0.5	167	..	
Manufactures of brass, etc. wire	..	133	7	
Total brass, etc., wire and manufactures thereof		2,211	..	
Copper				
Wire in coils (including uninsulated electric wire)				
Circular section	24.7	7,257	22	3G, 4K, 4L, 5K
	..	776		
Stranded wire and wire in coils other than circular section	10.3	3,435	27	3G, 4L, 4M
	..	588		
Manufactures of copper wire	..	83	5	
Total copper wire and manufactures thereof		12,139	..	

WIRE AND WIRE MANUFACTURES

TABLE 6 (contd.)

	1954			Principal industries in which produced (a)
	Quantity	Value	Entries	
Aluminium wire and manufactures thereof and aluminium wire or cable, steel cored, uninsulated	..	£'000 1,485	Number 12	
Molybdenum wire, in all forms except ferro-alloys; nickel and nickel alloy wire (other than nickel silver and cupro-nickel); and non-ferrous wire, other than copper, unclassified	..	2,140	12	
	Th.cwt.			
Wire of metals not specified above (excluding precious metals)	4.5	319	8	
	..	251		
Total		27,309	..	

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

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

TABLE 7

	1954	
	Quantity	Value
	Th.tons	£'000
Manufactures of iron and steel		
Wire rods of non-alloy steel	16.8	624
Other semi-finished iron and steel	9.8	683
Upholstery and mattress springs (including spring seating and mattress interiors) and springs other than laminated	4.7	396
	..	40
Fencing material, other than of wire	0.7	52
	..	42
Other manufactures of iron and steel	3.5	494
	..	69
Manufactures of other metals		
Brass and other copper alloys including nickel silver and cupro-nickel, but excluding all other nickel alloys	7.4	1,741
Copper strip not exceeding 6 inches in width	4.8	1,703
Other manufactures of copper, aluminium, nickel and nickel alloys	12.6	3,158
Other goods	..	1,118
Scrap metals sold		
Iron and steel	37.3	251
Brass	1.0	133
Copper	2.6	627
Zinc	3.3	131
Other metals	2.8	332
Work done (a)		132
Total		11,724

(a) Amount charged.

WIRE AND WIRE MANUFACTURES

Total quantity of wire drawn from wire rods or purchased wire (including wire drawn and used for further manufacturing purposes in the same works)(a)

Larger establishments in the United Kingdom

TABLE 8

	Returned in this industry			Returned in all industries		
	1951	1954		1951	1954	
	Quantity	Quantity	Entries (b)	Quantity	Quantity	Entries (b)
	Th.tons	Th.tons	Number	Th.tons	Th.tons	Number
Iron and steel wire (except insulated wire)						
Single wire	25.7	35.1	12	25.7	35.1	12
Fencing	(c)	200.5	..	164.2	202.7	45
Hard steel	(c)	(c)	..	463.4(d)	521.3	66
Mild steel	(c)	(c)	..	47.8	27.1	21
Other	(c)	32.9	11	32.6(d)	32.9	11
Stranded wire of two or more ply						
Brass and other copper alloys including nickel silver and cupro-nickel, but excluding all other nickel alloys						
Wire in coils						
Circular section thinner than No.20 gauge (S.W.G.)	2.2	1.6	14	2.3	1.8	21
Of brass	(c)	1.2	11	1.6	1.3	17
Of other alloys of copper						
Circular section No.20 gauge (S.W.G.) and thicker	10.9	13.3	9	17.7	19.7	21
Of brass	3.5	2.7	11	5.3	3.6	18
Of other alloys of copper	(c)	(c)	..	0.3	0.9	7
Other descriptions (including stranded wire)						
Copper wire in coils (including uninsulated electric wire)						
Circular section	(c)	(c)	..	13.8	13.7	21
Thinner than No.20 gauge (S.W.G.)	(c)	(c)	..	45.0	41.0	17
No.20 gauge (S.W.G.) and thicker	5.1	(c)	..	7.8	3.4	10
Other than circular section	-	-	-	82.2	83.2	17
Unclassified						

(a) Of the total quantities of wire drawn in all industries the amounts shown below were recorded as being re-drawn from purchased wire. A small measure of duplication in the totals is thus involved unless the wire re-drawn was imported.

	1951		1954	
	Quantity	Quantity	Entries	Entries
	Th.tons	Th.tons	Number	Number
Iron and steel wire (except insulated wire)				
Single wire, other than fencing	1.0	2.5	11	
Hard steel	11.0	13.1	22	
Mild steel	0.4	0.7	6	
Other				
Brass and other copper alloys including nickel silver and cupro-nickel, but excluding all other nickel alloys				
Wire in coils				
Circular section	1.3	0.9	12	
Of brass	0.5	0.6	11	
Of other alloys of copper				
Copper wire in coils (including uninsulated electric wire)				
Circular section	0.3	-	5	
Thinner than No.20 gauge (S.W.G.)	0.5	0.4	..	
No.20 gauge (S.W.G.) and thicker				

(b) Where a firm has returned at the same heading a quantity of wire drawn from wire rods and a quantity re-drawn from purchased wire, the combined figure has been treated as one entry.

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

(d) Amended figure.

WIRE AND WIRE MANUFACTURES

Purchases of materials and fuel, 1954
Larger establishments in the United Kingdom

TABLE 9

	Quantity	Cost
	Th.tons	£'000
Materials		
Steel		
Ingots, billets, blooms and slabs	55.8	2,048
Angles, sections, shapes, bars, rods, girders, beams, joists (not fabricated)	768.2	26,378
Wire (single wire)	217.8	12,986
Iron and steel not specified above except finished parts and scrap	7.0	355
Non-ferrous metals in all forms except finished parts and scrap	..	76
Copper		
Wire	1.9	613
Other kinds	63.3	16,854
Brass and other copper alloys, including nickel silver and cupro-nickel, but excluding all other nickel alloys		
Wire	5.3	1,607
Other kinds	11.7	2,274
Aluminium wire	0.3	85
Nickel and nickel alloys other than nickel silver and cupro-nickel	1.2	683
Zinc and zinc alloys	23.9	1,890
Other non-ferrous metals and alloys	18.1	3,219
Cores of jute, hemp, etc. (a)	..	401
Packing materials		
Jute and hessian including jute sacks	..	284
Packing cases (wood or mainly of wood)	23.6	21
All other packing materials	..	174
Replacement parts for firms' own machinery, plant and vehicles	..	427
Consumable tools bought as replacement including engineers' small tools, jigs, fixtures and measuring instruments	..	1,258
All other purchased materials	..	181
Fuel and electricity	..	3,644
Coal	107.9	379
Coke	21.7	118
Liquid fuels (including creosote/pitch mixtures)		
For use in internal combustion engines		
Motor spirit (petrol) for use in road vehicles and derv. fuel	898	176
Other	51	7
For burning in furnaces, boilers, kilns, etc.	2,348	102

TABLE 9 (contd.)

	Quantity	Cost
	Th.therms	£'000
Fuel and electricity (contd.)		
Gas purchased		
From Gas Boards	16,051 76	735 4
From other sources, including other departments of the same firms	368,058 ..	31 23
Electricity purchased (b)		
From Electricity Boards	336,702	1,439
From other sources, including other departments of the same firms	7,511	45
All other purchased fuel	..	66
Total cost		78,583

(a) So far as recorded separately.

(b) The total quantity of electricity generated in firms' own establishments in this industry in 1954 was 3,050 Th.kWh.

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	29,243	27,348
Administrative, technical and clerical employees	6,197	6,355
Total	35,440	33,703
	£'000	£'000
Wages and salaries paid to		
Operatives	10,528	12,242
Administrative, technical and clerical employees	3,281	3,809
Total	13,809	16,051
	£	£
Wages and salaries per head		
Operatives	360	448
Administrative, technical and clerical employees	529	599

TABLE 10 (contd.)

	1951	1954
		£'000
Superannuation and other pension funds for employees and dependants (b)		
Employers' contributions	..	299
Employers covered	..	9,568
Pension, etc. payments to former employees and dependants (b)	..	83

(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)

	United Kingdom	
	1951	1954
	Number	Number
Canteen workers		
Males	10	7
Females	354	283
Total	364	290
Other workers		
Males	318	225
Females	132	73
Total	450	298
Total excluded employees	814	588

Outworkers. The firms in this industry employed 11 male and 365 female outworkers in 1951 and 3 male and 373 female outworkers in 1954 the amounts paid to them being £30,000 in 1951 and £27,000 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	28	1	29	25	1	26
Operatives	22,783	6,286	29,069	22,158	6,034	28,192
Administrative, technical and clerical employees	3,834	2,424	6,258	3,987	2,441	6,428
Total employees	26,617	8,710	35,327	26,145	8,475	34,620

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

LIST OF INDUSTRY REPORTS

VOLUME 1

- A. Coal Mines
- B. Non-Metalliferous Mines and Quarries (other than Coal, Salt and Slate)
- C. Salt Mines, Brine Pits and Salt Works
- D. Slate Quarries and Mines
- E. Metalliferous Mines and Quarries
- F. Brick and Fireclay
- G. China and Earthenware
- H. Glass Containers
- I. Glass (other than Containers)
- J. Cement
- K. Abrasives
- L. Building Materials
- M. Manufactured Fuel

VOLUME 2

- A. Coke Ovens and By-products
- B. Dyes and Dyestuffs
- C. Fertiliser, Disinfectant, Insecticide and Allied Industries
- D. Coal Tar Products
- E. Chemicals (General)
- F. Drugs and Pharmaceutical Preparations
- G. Toilet Preparations and Perfumery
- H. Explosives and Fireworks
- I. Paint and Varnish
- J. Soap, Candles and Glycerine
- K. Polishes
- L. Ink
- M. Match
- N. Mineral Oil Refining
- O. Oils and Greases
- P. Seed Crushing and Oil Refining
- Q. Glue, Gum, Paste and Allied Industries
- R. Plastics Materials

VOLUME 3

- A. Blast Furnaces
- B. Iron and Steel (Melting and Rolling)
- C. Iron Foundries
- D. Steel Sheets
- E. Tinplate
- F. Wrought Iron and Steel Tubes
- G. Non-Ferrous Metals (Smelting, Rolling, etc.)
- H. Scrap Metal Processing
- I. Motor Vehicles and Cycles (Manufacturing)
- J. Motor Vehicles and Cycles (Repairing)
- K. Aircraft Manufacture and Repair
- L. Railway Locomotive Shops and Locomotive Manufacturing
- M. Railway Carriages and Wagons and Trams
- N. Carts, Perambulators, etc.

VOLUME 4

- A. Shipbuilding and Ship Repairing
- B. Marine Engineering
- C. Machine Tools
- D. Textile Machinery and Accessories
- E. Small Arms
- F. Constructional Engineering
- G. Mechanical Handling Equipment

VOLUME 4 (contd.)

- H. Printing and Bookbinding Machinery
- I. Mechanical Engineering (General)
- J. Mechanical Engineering (Repairing)
- K. Electrical Engineering (General)
- L. Electric Wires and Cables
- M. Radio and Telecommunications
- N. Batteries and Accumulators
- O. Electric Lighting Accessories and Fittings

VOLUME 5

- A. Tool and Implement
- B. Cutlery
- C. Chain, Nail, Screw and Miscellaneous Forgings
- D. Wire and Wire Manufactures
- E. Hardware, Hollow-ware, Metal Furniture and Sheet Metal
- F. Brass Manufactures
- G. Needles, Pins, Fish Hooks and Metal Smallwares
- H. Scientific, Surgical and Photographic Instruments, etc.
- I. Watch and Clock
- J. Jewellery and Plate
- K. Precious Metals Refining
- L. Musical Instruments

VOLUME 6

- A. Cotton Spinning and Doubling
- B. Cotton Weaving
- C. Woollen and Worsted
- D. Rayon, Nylon, etc. Production
- E. Rayon, Nylon, etc. Weaving, and Silk
- F. Flax Processing
- G. Linen and Soft Hemp
- H. Jute
- I. Rope, Twine and Net
- J. Hosiery and Other Knitted Goods
- K. Lace
- L. Carpets
- M. Narrow Fabrics
- N. Canvas Goods and Sacks
- O. Textile Converting
- P. Made-up Household Textiles
- Q. Textile Finishing
- R. Textile Packing

VOLUME 7

- A. Asbestos
- B. Flock and Rag
- C. Hair, Fibre and Kindred Industries
- D. Leather (Tanning and Dressing)
- E. Feltmongery
- F. Leather Goods
- G. Fur
- H. Tailoring, Dressmaking, etc.
- I. Hats, Caps and Millinery
- J. Glove
- K. Umbrella and Walking Stick
- L. Boot and Shoe

VOLUME 8

- A. Grain Milling
- B. Bread and Flour Confectionery
- C. Biscuit
- D. Bacon Curing and Sausage

VOLUME 8 (contd.)

- E. Preserved Meat
- F. Milk Products
- G. Ice Cream
- H. Sugar and Glucose
- I. Cocoa, Chocolate and Sugar Confectionery
- J. Preserved Fruit and Vegetables

VOLUME 9

- A. Margarine
- B. Fish Curing
- C. Cattle, Dog and Poultry Foods
- D. Vinegar and Other Condiments
- E. Starch
- F. Ice
- G. Miscellaneous Preserved Foods
- H. Brewing and Malting
- I. Wholesale Bottling
- J. Spirit Distilling
- K. Spirit Rectifying and Compounding
- L. Soft Drinks, British Wines and Cider
- M. Tobacco

VOLUME 10

- A. Timber
- B. Furniture and Upholstery
- C. Soft Furnishings
- D. Shop and Office Fitting
- E. Wooden Containers and Baskets
- F. Paper and Board
- G. Wallpaper
- H. Cardboard Box, Carton and Fibre-board Packing Case
- I. Manufactured Stationery, Paper Bag and Kindred Industries
- J. Newspaper and Periodical Printing and Publishing
- K. Printing and Publishing, Bookbinding, Engraving, etc.

VOLUME 11

- A. Rubber
- B. Linoleum, Leathercloth and Allied Industries
- C. Brushes and Brooms
- D. Toys and Games
- E. Sports Requisites
- F. Miscellaneous Stationers' Goods
- G. Cinematograph Film Production
- H. Cinematograph Film Printing
- I. Plastic Goods and Fancy Articles
- J. Incandescent Mantles

VOLUME 12

- A. Building and Contracting
- B. Local Authorities (Building and Civil Engineering)
- C. Railways (Civil Engineering)
- D. Tramway, Trolley Bus and Omnibus Undertakings (Civil Engineering)
- E. Canal, Dock and Harbour Undertakings (Civil Engineering)
- F. Gas Supply Industry
- G. Electricity Supply Industry
- H. Water Undertakings

Crown copyright reserved

Printed and published by
HER MAJESTY'S STATIONERY OFFICE

To be purchased from
York House, Kingsway, London W.C.2
423 Oxford Street, London W.1
13A Castle Street, Edinburgh 2
109 St Mary Street, Cardiff
39 King Street, Manchester 2
Tower Lane, Bristol 1
2 Edmund Street, Birmingham 3
80 Chichester Street, Belfast
or through any bookseller

Printed in Great Britain