

BOARD OF TRADE

THE REPORT

on the

CENSUS OF PRODUCTION

FOR 1951

Volume 3

Trade G

NON-FERROUS METALS (SMELTING, ROLLING, ETC.)

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

1955

TWO SHILLINGS NET

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* Not applicable to this trade

NON-FERROUS METALS (SMELTING, ROLLING, ETC.) TRADES

THIS REPORT on the Non-Ferrous Metals (Smelting, Rolling, etc.) Trades relates to establishments engaged wholly or mainly in the manufacture of non-ferrous metals (other than precious metals) from the preliminary stage. Those whose chief business is the production of goods advanced beyond the semi-finished stage are dealt with in reports on other trades, e.g., Brass Manufactures; Wire and Wire Manufactures; Hardware, Hollow-ware, Metal Furniture and Sheet Metal, etc.

These trades correspond to minimum list heading 49 in the Standard Industrial Classification.

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.

NON-FERROUS METALS (SMELTING, ROLLING, ETC.) TRADES

Summary

Larger establishments (a)

~	-	7	F	

		Uni	ted Kingdom		Great I	Britain	United	Kingdom
		1951	1950	1949	1949(b)	1948	1937	1935
		£,000	£,000	£,000	£'000	£,000	£,000	€,000
output (production)	(c)	427,513	321,499	240,478	••	246.821	78.239	51,662
Cost of materials and fuel used (d	used (d)	324,307	239,531	172.927		175.973	57,159	35,848
Payment for work done on materials given out Transport payments (e)		1,072 3,447	863	897	••	1,003	398	229
tput and salaries of perso yed	ons	98,688	81,105 40,715	66,654 38,126		69,844	20,682	15,585
e number of persons e	employed (f)	No. 106,949	No. 102,936	No. 99,943	No. ••	No. 104,395	No. 59,649	No. 49,571
tput per person emplo	oyed (f)	923 £'000	788 £'000	667 £'000	£,000	£, 000	347 £'000	314 £'000
at end of year		2 000		5,5,000 \$ \$5,000				
ucts on hand for sale k in progress rials and fuel	e and	39,183 33,993 No.	31,949 29,392 No.	22,710 20,425 No.	No.	25,350 19,694 No.	No.	No. 373
of establishments		No. 493	No. 481	No. 474	No.		175	175

The values of gross output	and of mate	rials and fu	iel used ar	e derived i	n the foll	owing way:	
	£,000	£,000	£,000	£,000	£,000	£.000	£,000
Output of firms in this trade (g)							
Principal products (h) Other output (i)	383,301 38,515	313,847	243,902	{	220,432 24,788	70.654 7.585	46.273 5.389
Changes in stocks and work in progress (j)	+ 5.697	+ 9,807	- 1,524	••	+ 3.217		
	427.513	323,654	242,378		248,437	h	
Less payment for transport outwards (e)	••	2,155	1,900	••	1,616	78,239	51.662
Gross output (production)	427.513	321,499	240,478	••	246,821	78,239	51,662
Materials and fuel used by firms in this trade							
Purchases Changes in stocks (j)	330.703 - 6.397	248,055 - 8,524	173,581 - 654	•••	177.729 - 1.756	57,159	35,848
Materials and fuel used	324,307	239,531	172,927	••	175,973	57.159	35,848

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

(b) Owing to the risk of disclosure of information relating to individual firms in Northern Ireland separate particulars for Great Britain cannot be given.

(c) 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.

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

(e) 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.

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

(g) Total value of sales (1951, 1950, 1949 and 1948) 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.

TABLE 2

Summary: Small firms (a)

	Great B	ritain	United Kingdom	Great Britain	
	1951	1950	1949	1949	1948
Number of returns	336	339	390	387	387
Average number of persons employed (b)	SHOWS SHE THE	M0203	Call Street State		
Males Females	1,875	1,928 226	1,819 223	1.797 222	2,089 210
Total /	2,096	2.154	2,042	2,019	2,299

(a) Small firms (employing on the average ten or fewer persons) that made satisfactory returns. No information about small firms was collected in Northern Ireland for 1951 or 1950.

(b) Including working proprietors.

TABLE 3

Estimated average employment (a): All firms

Number

	Un	ited Kingdom	Great Britain		
Land June 1 and 1 and 1 and 1	1951	1950	1949	1949	1948
As returned by firms	1 9 4 1	nes h	ne ke		A areasant
Employing on the average more than ten persons (b) Employing on the average ten or fewer persons (d)	106,949 2,096(e)	102,936 2,154(e)	99,943 2,042	(c) 2,019	104.395 2.299
Fabinad management is firm and all in	109,045	105,090	101,985	(c)	106,694
Estimated average employment in firms not making satisfactory returns	299	351	760	760	238
Estimated average employment in all firms	109,344(e)	105,441(e)	102,745	(c)	106,932

(a) Including working proprietors.(b) See Tables 13(iv) and 14.

(c) Owing to the risk of disclosure of information relating to individual firms in Northern Ireland separate particulars for Great Britain cannot be given.
(d) See Table 2.

(e) Excluding any small firms in Northern Ireland.

Analysis by size, 1951

Larger establishments in the United Kingdom

TABLE 4

Transport of the Section 1997	and the surprise of the state of				1	Remuneration		6 3.10
Average number employed		Persons employed	Operatives	Other employees (a)	Total	Net output per person employed		
	No.	£,000	£,000	No.	£'000	£,000	£'000	2
11 - 24	112	9.775	2,016	1,978	619	209	828	1.019
25 - 49	110	18.417	3,630	3,767	1,177	439	1,616	964
50 - 99	100	40.788	7,387	7,096	2,343	751	3,094	1.041
100 - 199	68	55,777	10,622	9,310	3,200	1,023	4,223	1,141
200 - 299	17	13,864	3,322	3,888	1,168	394	1,563	854
300 - 399	20	54,359	7,931	7,131	2,196	842	3,038	1,112
400 - 499	9	24,169	3,993	4.091	1.355	468	1,823	976
500 - 749	22	39,605	11,018	13,393	4.268	1,203	5,470	823
750 - 999	12	35,521	9,585	9,852	3.488	992	4,481	973
1,000 - 1,499	11	44,560	11,299	13.907	4.716	1,508	6.224	812
1,500 - 1,999	5	31,439	11,220	8,349	2.744	970	3.714	1,344
2,000 - 2,999	4	22,708	6,613	9,741	3.152	854	4.007	679
3,000 and over	3	36,531	10,052	14,446	4.494	1,555	6.049	696
Total	493	427,513	98,688	106,949	34,920	11,209	46,129	923

(a) Administrative, technical and clerical employees.

Analysis by standard region, 1951

Larger establishments in the United Kingdom

TABLE

		l see 1	Net o	utput		F	Remuneration		Net output
Region	Estab- lish- ments	h- Gross	Value	Percent- age of total	Persons employed	Operatives	Other employees (a)	Total	per person employed
	No.	£.000	£'000		No.	£,000	£.000	£,000	£
England and Northern Ireland		AND A	1000						CANADA CA
Northern	17	11,933	2,613	2.6	2,560	773	262	1,035	1,021
East and West Ridings	30	15.747	4.780	4.8	5,559	1.673	562	2,235	860
North Midland	12	5,074	1,004	1.0	930	290	115	405	1.080
Eastern: South Western: and Northern Ireland	24	18.947	6,315	6.4	4.037	1,327	517	1.844	1,564
London and South Eastern	103	75.023	14.643	14.8	16,380	5,063	1.958	7.021	894
Southern	15	13,201	4,490	4.5	5, 247	1,879	496	2.375	8 56
Midland	183	161,093	39.278	39.8	44.521	14.864	4.471	19,335	882
North Western	54	63,218	8,171	8.3	9,568	3,015	966	3,981	8 5 4
Total England and Northern Ireland	438	364,236	81,295	82.4	88,802	28.883	9.347	38,231	915
Wales	23	41,010	11,667	11.8	11,486	3,870	1,168	5,038	1,016
Scotland	32	22,267	5,726	5.8	6.661	2,167	694	2.861	860
United Kingdom	493	427,513	98,688	100.0	106,949	34,920	11,209	46.129	923

⁽a) Administrative, technical and clerical employees.

Analysis according to specialisation within the trade, 1951

Larger establishments in the United Kingdom

TABLE 6

	- 440		Sales of	a type I	Persons employed	R	emuneration	1 3 22	TO SECURE
	Establish- ments	Gross output	charac- teristic products	Net output		Operatives	Other employees	Total	Net output per person employed
ANA ANA	No.	£'000	£'000	£.000	No.	£'000	£,000	£,000	£
Specialist producers of					100	190,000	700		100 1 100
Aluminium and magnesium, and alloys	176	110,215	99,171	36,142	48.747	16.711	4,425	21,135	741
Copper and copper alloys	131	163,518	135,667	31,653	32.543	10.517	3.745	14,262	973
Lead	48	40,159	29,288	5,583	3.196	896	57 5	1,471	1,747
Tin	15	39,730	35,793	3,145	1.975	632	231	863	1.592
Zinc	52	30.752	25,994	9,826	8,140	2,617	766	3,384	1,207
Remainder of trade	71	43,139		12,340	12,348	3.547	1.468	5,014	999
Total	493	427,513		98,688	106,949	34.920	11,209	46,129	923

⁽a) Administrative, technical and clerical employees.

(93200/1)

NON-FERROUS METALS (SMELTING, ROLLING, ETC.) Total make of intermediate products

Larger establishments

TABLE 7

	Return	ed in thi	s trade	Returne	d in all	trades
	United K		Great Britain 1948	United K 195		Great Britain 1948
	Quantity	Entries	Quantity	Quantity	Entries	Quantity
Principal products	Th.tons	No.	Th.tons	Th.tons	Ño.	Th.tons
Aluminium and aluminium alloys					THE REST. OF	101 215
Ingots and notch bars, virgin	51.1	15	34.9	51.1	15	34.9
Ingots, notch bars and sticks, secondary	(a)		94.7	102.0	44	95.0
Blocks, slabs, billets and wirebars	(a)		272.5(b)	340.5	20	272.6(b
Sheets, plates and strip (flat or in coil), exceeding 0.006 inches in thickness	12.00					Language Co.
Pure	(a)			93.2	16	h
Alloy						
Corrugated	10.6	7	} 138.1 {	10.6	7	140.1
Other	(a)			58.0	15	
Discs, circles and slugs, exceeding 0.006 inches in thickness	\$180 F 183				a san Mana.	MOSSIC CO.
Pure	(a)		\ [14.2	11	
Alloy	(a)		} 17.1 {	1.1		17.3
Tubes				des carety	Dalle Fine	20000000
Extruded						W 12 10 12
Pure	1.0	8) (1.0	8	h
Alloy	(a)		} 10.6	4.2	10	11.1
Drawn						SA SA CENTRAL CARSON
Pure	1.1			1.1	8	
Alloy	3.5			3.5	12	
Powder, flake and granulated	(a)		1 - 10-024	Th.cwts. 102.1		
Bismuth (metal), not including alloys of bismuth	(a)			Th.lbs.		24 T
Brass and other copper alloys, including nickel silver but excluding all other nickel alloys						ration.
Ingots, blocks, slabs, billets, bars (including wirebars) and cast strip	1 , 1 (0)			Th.tons	5 10 10 10	in to arend
Bronze, phosphor bronze and gunmetal	111.4	57	130.7	119.7	63	137.9
Other	218.8	6.5	234.9	223.8	70	237.8
Direct castings not included above	1 1 1 0 0 0 0				100	al-e-tell
Bronze, phosphor bronze and gunmetal	0.7	10		0.7	10	Sebert.
Other	1.1	6	4 v	1.1	6	tologic takes if
Plates, sheets, foil, strip, discs and circles	73.6	45	76.8	75.3	51	80.8
Round brass rods	(a)		34.9	60.9	22	39.3
Shapes and angles	(a)		8.1	13.6	15	8.1
Other rods and sections, and wire not in coils	50.9	17	82.5	52.1	24	83.6
Unclassified rods	-		-	3.3	8	
Copper	H. T. WILLIAM	Maria de la compansión de		Marie Share	1 45 500	
Unwrought; ingots, blocks, slabs, bars, billets, cakes, cathodes and anodes, including rough copper of 94 per cent, copper content or over (c)	1000 0000 000 000 100 00 000 000 100 00			ration or reserved		STORE IN
Fire refined	119.7	22	191.7	135.2	30	202.6
Other	(a)	3	12.1	30.9	19	15.3

TABLE 7 (contd.)

TABLE / (contd.)	Returned in this trade					
	Return	ed in thi	s trade	Returne	d in all	trades
	United Ki		Great Britain 1948	United K		Great Britain 1948
	Quantity	Entries	Quantity	Quantity	Entries	Quantity
APPLIES DEPOSITOR OF THE STATE	Th. tons	No.	Th. tons	Th.tons	No.	Th. tons
Principal products (contd.)						
Copper (contd.)						
Plates, sheets or strip (other than of high conductivity)	M. 3.007.		27240			
3/8 inch thick and over	(a)		7.9	8.4	12	9.3
Other sheets, strip, foil, discs and circles, exceeding 6 inches in width or diameter	(a)	1	27.1	29.6	27	28.6
Strip, foil, discs and circles, not exceeding 6 inches in width or diameter	(a)		2.5	12.1	23	4.0(d)
High conductivity strip	(a)		13.4	12.6	10	15.1(d)
Strip not exceeding 6 inches in width (high conductivity and other), unclassified	16-20	-	-037	11.2	10	Page .
Rods and sections, shapes and angles and wire not in coils	1 6.05				1	Commission
Wire rods	1994					
High conductivity	59.8	5	85.5	59.8	5	181.5
Other	(a)		(a)	1.0	6	9.3
Unclassi fied	-(694	-	-	85.7	7	- 111100
Shapes and angles	1.9		2.0	1.9		2.0
Other rods and sections and wire not in coils			744			
Rolled	2.7	8	(a)	2.7	8	3.4
Extruded	(a)		4.2	2.1	10	26.5
Unclassified shapes and angles and other rods	-	-	•	3.0	6	-
Unclassified rods	- 00	-	-	1.4	5	- /
Tube shells	53.4	14	49.3	53.4	14	49.3
Lead, unwrought, in pigs, ingots, blocks, bars, slabs and cakes	(a)		105.9	115.8	44	106.1
Tin				to market		
Blocks, ingots, bars and slabs	27.9	21	28.6	27.9	21	28.6
Solder, soft	(a)		17.3	22.4	36	17.4
Zinc or spelter, unwrought, in ingots, blocks, bars, slabs and cakes	(a)		73.3	72.4	22	73.6
White metal alloys			3423	· 文本文》 [50]	Process lies	STATE OF STA
Unwrought or partly wrought	1 1 3 3 3 3 3		440 + 64	31,000,81,59	- 3450	经 总数据图3
Anti-friction metal	4.7	24	4.2	5.2	29	5.2
Type-metal	10.0	16	9.3	10.0	16	9.3
Other products			100000	D D IN 91 49	1 1 2 2 3 5 6 6	SECTION SECTION
Brass and other copper alloys, including nickel silver, but excluding all other nickel alloys						34 AC
Wire in oils, circular section (e)						1015125
Thinner than No. 20 gauge (Imperial standard wire gauge), of brass	0.1				1	samed Envol
No. 20 gauge (Imperial standard wire gauge) and thicker					-	less appets
Of brass	6.8	13				2 452 1 19 19 5
Of other copper alloys	1.9	7				
					4 1 1 1 1 1 1 1	

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

(93200/1)

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

Larger establishments

TABLE 8

A STATE OF THE STATE OF THE STATE OF	Uni	ted Kingdom 1951	be with a to a look	Great B	
5,876 L. 828,42	Quantity	Value	Entries	Quantity	Value
Aluminium and aluminium alloys	Th. tons	£,000	No.	Th. tons	£'000
Ingots and notch bars, virgin	43.7	5,801	14	34.1	3, 246
Ingots, notch bars and sticks, secondary	91.9	12, 37 3	37	70.3	5, 399 (a)
Blocks, slabs, billets and wirebars	40.6	5, 591	11	37.2	3.781(b)
Sheets, plates and strip (flat or in coil), exceeding 0.006 inches in thickness	0.45) ************************************	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	engel talagen un	erit armae emisi erica arrestas
Pure	69.3	14.291	15	San	
Alloy				10000	
Corrugated	10.9	2,363	7	109.3	19,382
Other	53.2	13,961	15		
Discs, circles and slugs, exceeding 0.006 inches in thickness	\$ 600 . 50				
Pure	14.2	3,434	11	10.0	0.007()
Alloy	1.1	280	8	16.6	2,937(c)
7.000 1 10 10 10 10 10 10 10 10 10 10 10 1	Th.cwts.			Th.cwts.	
Foil (strip, etc. not exceeding 0.006 inches in thickness)	255.7	5, 554	13	154.4	2.817
Bars (other than notch bars and wirebars), rods, angles, shapes and sections	Th. tons			Th. tons	
Pure	5.6	1,174	9 1	Tarringo sol	Marine Car
Alloy	28.1	7,512	11	37.5	6.861(d)
Castings	63.9	22,006	352	43.0	11.684
Forgings and stampings	4.9	3, 299	20	4.2	2,163
A description and description of the state of	Th.cwts.			Th.cwts.	
Powder, flake and granulated	102.8	8 2 4	7	66.4	436
Collapsible tubes (e)	10.2	296 433	} 7 {	0.4	29
	Th. tons	400	1	Th. tons	43
Tubes	in. tons			In. tons	
Extruded	2.23	80, 81, 9			
Pure	0.7	236	6	10.0	2,575
Alloy	2.4	577	10		2,0,0
Drawn	一种形 。				Jewalanii.
Pure	1.1	437	7	120 40 20	And Paper
Alloy	3.5	1,687	11	accir bac	1,965
Other manufactures of aluminium, except wire and domestic ware	0.7	214 1,135	} 40		ten i i pri
Total aluminium and manufactures thereof		103,477			63,317
	Th.lbs.			Th.lbs.	The state of the
ismuth (metal), not including alloys of bismuth	652.4	8 48	••	57 4.7	30 2
rass and other copper alloys, including nickel silver, but excluding all other nickel alloys	Th. tons	1		Th. tons	
Ingots, blocks, slabs, billets, bars (including wirebars) and cast strip		Total State			See to young
Bronze, phosphor bronze and gunmetal	72.7	19,150	47	79.7	9.044
Other	62.0	13,761	62	39.6	4,089
Plates, sheets, foil, strip, discs and circles	67.9	18.307	51	81.0	14,116
Round brass rods	59.6	14,955	22	34.4	4,951

⁽a) Owing to the risk of disclosure of information relating to individual firms, separate particulars cannot be given.
(b) Described as 'Wirebars, billets and rolling slabs, pure and alloy'.
(c) Including copper smelted from imported unrefined metal as well as copper smelted from imported ores and scrap. Some duplication may be involved owing to inclusion of the same products at different stages of manufacture.
(d) Excluding production by establishments classified to the Electric Wires and Cables Trade or the Wire and Wire Manufactures Trade.
(e) For total make returned in all trades see the Wire and Wire Manufactures Trade (Volume 5, Trade D).

TARI	E	Q	1 con	+4	

Amount of these	Unit	ed Kingdom 1951	AND REPORTED	Great Britain 1948	
	Quantity	Value	Entries	Quantity	Value
	Th. tons	£'000	No.	Th. tons	£,000
rass and other copper alloys, including nickel silver, but excluding all other nickel alloys (contd.)					
Shapes and angles	13.5	3,678	15	7.8	1,268
Other rods and sections and wire not in coils	51.0	13,520	23	74.1	10,808
	Th.cwts.			Th.cwts.	
Tubes	1 1,00			338.7	4, 379
Solid drawn of circular section	301.4	5,609	36 16	65.1	681
Other	12.3	283	h d	107.9	786
Other manufactures of brass and other copper alloys, except castings and wire in coils	74.3	1.252	} 29 {		420
Total brass, etc. and manufactures thereof		90,646			50,542
The Assessment of the State of	Th.lbs.			Th.lbs.	100
admium	524.9	1.751	7	294.7	180
pper	Th. tons		P CHEMONIC	Th. tons	The factor of the
Unwrought: ingots, blocks, slabs, bars, billets, cakes, cathodes and anodes, including rough copper of 94 per cent. copper content or over	0.04				10.228
Fire refined	33.7	7,089	23	26.3	3,491
Other	6.9	1,488	12	13.1	1,521
Plates, sheets or strip (other than of high conductivity)	1.044		24 1 2 2 2 2 3	tres district for	andred san
3/8 inch thick and over	7.8	2,181	12	9.2	1.767
Other sheets, strip, foil, discs and circles, exceeding 6 inches in width or diameter	29.7	8,312	27	29.0	5,480
Strip, foil, discs and circles, not exceeding 6 inches in width or diameter	12.1	3,369	23	4.4	6 23 (f)
High conductivity strip	12.0	3,485	10	15.1	2,810(f)
Strip not exceeding 6 inches in width (high conductivity and other), unclassified	11.2	3,179	10		alike manua
Rods and sections, shapes and angles, and wire not in coils					and a
Wire rods		10 000		96.7	14,282
High conductivity	55.5	12,802	h		27.00
Other	0.7	95	6	0.4	61
Unclassi fied	26.1	6,080	5	-	1000
Shapes and angles	1.9	606		2.0	448
Other rods and sections and wire not in coils					90233
Rolled	2.1	5 48	7	3.3	546
Extruded	2.1	621	9	4.4	805
Unclassified shapes and angles and other rods	3.0	882	6	the attention	260 02
Tube shells	13.2	3,154	10	12.3	1,919
Tubes	5 82.3	J. Walesand H.	100 May	Service Tox	157 9 8 1 1 au
Solid drawn, of circular section	41.9	13,584	35	40.1	9,545
Other	0.7	331 360	} 18	0.6	218
Copper castings, other than engineers' and mechanicians' goods	0.9	317	14	0.6	155
Other manufactures of copper, except wire in coils and engineers' and mechanicians' goods	5.9	1,657 174	} 31	2.1	6 57 2 30
Total copper and manufactures thereof		70,499			44,557

(93200/1)

TABLE 8 (contd.)

0.01	United Kingdom 1951			Great E 19	
The second secon	Quantity	Value	Entries	Quantity	Value
Lead	Th. tons	£,000	No.	Th. tons	£,000
Unwrought, in pigs, ingots, blocks, bars, slabs	Colonia II			cas to seri	potumu rent
and cakes	75.8	11,055	39	57.3	5,003
Sheet	37.8	6.594	25	38.3	4,117
Pipes	23.6	4.364	33	33.8	3,811
Foil	1.2	249	5	0.7	101
300.8 7 0.2 61 020.8	Th.cwts.			Th.cwts.	To reprove
Collapsible tubes of lead	25.2	425 282	8 {	16.0	203
Lead shot	25.2	48 4		42.0	233
Antimonial and tinny lead	1.036.6	9,192	24	1,026.0	5, 428
Other manufactures of lead	116.5	1,509	b (128.0	1,013
other municules of ledd	1 11.2.	376	} 48 {		162
Total lead and manufactures thereof		34, 532			20,111
Magnesium and magnesium alloys					AND THE PARTY
Castings	76.4	2 091	9 {	51.2	1.163
Contract of the second	70.4	2,081	9 {	matures there	26 5
Ingots, sticks, slabs and billets, and manu- factures of magnesium and magnesium alloys,	2001.20				
other than castings	164.8	2,423	7	156.3	605
Total magnesium and magnesium alloys	241.2	4, 50 4	{	207.5	1,769 265
Manganese metal	19.5	198	- Telow (2/8 0)	24.3	17 5
Nickel and nickel alloys (other than nickel silver)	Th.tons	200	•••	Th.tons	175 - 175 -
Ingots, billets, cathodes, bars, rods, plates, sheets, strip, foil, etc.	28.3	14,012	}	22.9	5,817
Other manufactures, except wire of nickel	5.2	2,981	7.		3.02
alloys		119)	5.3	2,340
Total nickel and nickel alloys, and	100000000000000000000000000000000000000				
manufactures thereof	\$44	17,458		28.3	8.157
'in					
Blocks, ingots, bars and slabs	28.4	28,036	10	000000000000000000000000000000000000000	
Solder, soft	22.2	11,165	19	27.8	14,179
Foil	0.6	568	36	17.3	4, 492
sour agove of the care frame of the to	Th.cwts.	300	/ U-LOCK 335	0.5	337
Collapsible tubes of tin	2.5	175	h . c	Th.cwts.	1,384(e)
and the state of t	1.2.	243] 7 {	20.0	200
Other manufactures of tin	6.3	48 2	16	28.0	362
Total tin and manufactures thereof		40,669			20,955
era. Al spa es	Th.lbs.	1005 at 12		Th.lbs.	
ungsten, in all forms except ferro-tungsten	576.2	1,239	5	549.6	57 2
inc or spelter	Th.tons	32	1 2 20 62 41	Th. tons	No.
Unwrought, in ingots, blocks, bars, slabs and	n hast agen in		107 100 000	Esta a committee	Sedenoski (
cakes	71.8	11,734	18	73.3	De la libraria de la companya de la
Sheets, strip, plates, foil, discs and circles	14.2	3, 184	8	20.6	7.363(g)
at 18 has as 19 and a second	Th.cwts.		Telera	Th.cwts.	10 307 00 T
Zinc dust	212.4	2,153	8	.155.1	633
Zinc alloy ingots (for die-casting)	667.8	6,194	6	607.3	2,513
Zinc alloy pressure die-castings	408.4	6,995	66 {	327.0	3,630
		0,000	1 00 1	· bapy	400

TABLE 8 (contd.)

	United Kingdom 1951			Great Britain 1948		
	Quantity	Value	Entries	Quantity	Value	
	Th.cwts.	£,000	No.	Th.cwts.	£'000	
Zinc or spelter (contd.)	01.6	289	6	58.7	673	
Other manufactures of zinc	21.6	87	} 22 {	38.7	265	
Total zinc and manufactures thereof		30,636			15,476	
	Th. tons			Th. tons		
White metal alloys (h)	in. tons			in. tons		
Unwrought or partly wrought						
Anti-friction metal	5.1	4,054	29	5.0	2,007	
Type-metal	9.8	2, 239	15	8.6	1,230	
	Th.cwts.			Th.cwts.	100	
Other sorts	74.4	1,886	13	29.4	7 29	
Wrought or manufactured	4.43			100111000	arent uses	
Printing type	11.2	338 125	8	9.6	268	
		43	10 {	6.8	147	
Other manufactures	1.5	43	10 (The distance with a	111	
Total white metal alloys and		0.005			4 40.0	
manufactures thereof		8,685			4,492	
	Th. tons	1000		Th. tons		
ther non-ferrous metals and alloys of metals including antimony and manufactures of antimony, but excluding precious metals	6.4	2,641 184	29 {	7.9	1,623 188	
iscellaneous manufactures, etc.	T. Land	10000	\$ 10 ms 700		127.147.00	
Concentrates, metallic residues, wastes, etc., not elsewhere specified	147.3	3,800	163	100.8	2,607	
Lighter flints (e)	· · · · · · ·	316			352	
Metallic packings (e)	0.3	141	} 10 {	0.7	309 115	
Alan toll and the little and the state of the little and the littl	Th.lbs.	1,0		Th.lbs.		
Hard metal powder (including tungsten carbide	430.8	1,095			-	
powder and matrix) (e)		149	} 6	207.9	302	
	Th.tons	The same		Th. tons	in silent	
Other finished non-ferrous metal products	1.3	557 58	A {	1.0	414 270	
ork done for the trade or on commission (i)	4	30	1	••	2,0	
Casting of ingots, billets, etc. of brass and other copper alloys	1 41	58 2	27	ALIVE SA SA SA	555	
Rolling of brass and other copper alloys (including nickel silver, but excluding all other nickel alloys)		95	20		164	
Rolling of copper			-		56	
Other work		1,836	99	1000	1,258	
depair work (i)		138	13	027 745.02	28	
To tal		416,907	10 (0.000)	atuma bar 18	239,111	
Sales in other trades (see Table 9)		33,606	•••		18,679	
Principal products of this trade sold by establishments in the trade		383,301	447	T TENER WELL	220,432	

(a) Described as 'Ingots and notch bars, secondary'.

(b) Described as 'Wirebars, billets and rolling slabs, pure and alloy'.

(c) Including discs, circles and slugs under 0.006 inches in thickness.

(d) Hot rolled plates, tube shells, hot rolled rods, extruded bars (including wirebars) and other extruded

sections.

(e) So far as recorded separately.

(f) Excluding sales by establishments classified to the Electric Wires and Cables Trade or the Wire and Wire Manufactures Trade.

(g) Owing to the risk of disclosure of information relating to individual firms, separate selling values

cannot be given.

(h) Alloys of tin, lead, zinc, antimony, etc., not elsewhere specified.

(i) Amount charged.

(93200/1)

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

Larger establishments

T	A	B	L	E	28	9

c'ons No. Th. Lone & con	Unit	ed Kingdom 1951		Great Britain 1948		
6-10-2	Quantity	Value	Entries	Quantity	Value	
luminium and aluminium alloys	Th.cwts.	£'000	No.	Th.cwts.	£'000	
Foil (strip, etc. not exceeding 0.006 inches in thickness)	6.9	176		3.7	8 2	
saffar, to second and other transfers	Thi. tons		Typoxy .	Th.tons		
Castings	7.3	2,741	208	5.4	1,528	
Forgings and stampings	0.2	142	13	1.1	616	
Bars (other than notch bars and wirebars), rods, angles, shapes and sections; and tubes	0.9	255	5			
Ingots, notch bars and sticks, secondary; blocks, slabs, billets and wirebars; sheets, plates and strip (flat or in coil) exceeding 0.006 inches in thickness, other than of alloy corrugated; discs, circles and slugs, exceeding 0.006 inches in thickness; powder,	0.9		regally the core of topics	4.2	8 17 7 31	
flake and gramulated; collapsible tubes; and other manufactures of aluminium, except wire and domestic ware	1.9	49 6 40 5	} 25	1		
Total aluminium and manufactures thereof	2.2	4,214	3	and disc due	3,774	
rass and other copper alloys, including nickel silver, but excluding all other nickel alloys	2.8		apalaa	menth equipes	g velle	
Ingots, blocks, slabs, billets, bars (including wirebars) and cast strip	11.8		20	onts to serie:	of webs y	
Bronze, phosphor bronze and gunmetal	8.3	2,430	6	4.7	70:	
Other	5.1	1,103	5	2.9	328	
Plates, sheets, foil, strip, discs and circles	1.6	460	6	3.9	606	
Round brass rods; shapes and angles; other rods and sections and wire not in coils	3.3	971	10	3.0	499	
Soughered with the land of the	Th.cwts.		d mit sed	Th.cwts.	Roman digital	
Tubes; and other manufactures of brass, except castings and wire in coils	23.8	444	8 {	29.1	315 58	
Total brass, etc. and manufactures thereof		5,414	1000	ed katuronium	2,508	
Unwrought: ingots, blocks, slabs, bars, billets, cakes, cathodes and anodes, including	Th.tons	ide one ad a	s agaile o	Th.tons	instal in interpretation	
rough copper of 94 per cent. copper content or over	15.8	3, 426	8	13.8	1.78	
Plates, sheets or strip (including high conductivity strip)	14.7	4,188	15	6.1	990	
Tubes	0.9	353 360	9	0.8	228	
Wire rods, unclassified; and unclassified shapes and angles and other rods	29.1	6,962	9	Lac Maior Bill	201 9-01	
Copper castings, other than engineers' and mechanicians' goods	0.1	39	5	h	03	
Wire rods, other than of high conductivity; other rods and sections and wire not in coils, extruded; and other manufactures of copper, except wire in coils and engineers' and	1.1	27 1	that your	24.3	4,391	
mechanicians' goods		232	8	10 42 22 1 11 10 10 10	10.000 DEST	
Total copper and manufactures thereof		15,831			7,51	

TABLE 9 (contd.)

ages	Unit	ced Kingdom 1951		Great Bi	
	Quantity	Value	Entries	Quantity	Value
Lead Market Mark	Th.tons	£.000	No.	Th.tons	£,000
Unwrought, in pigs, ingots, blocks, bars, slabs and cakes; and pipes		17		C.8	69(a)
TO STATE OF THE PARTY OF THE PA	0.4	47 76	} {	and the second second	Section - Laboration Control
Collapsible tubes of lead)		1	Th.cwts.	
A STEP TO STATE TO ST	Th.cwts.			32.0	237 (ъ)
Other manufactures of lead, except sheet, foil, lead shot, and antimonial and tinny lead	3.0	49 129	} 13]	49
Total lead and manufactures thereof		301		A DA S CREATE	355
825	Th.tons		dut ball te	Th. tons	mo Kee Law Loren
Nickel and nickel alloys (other than nickel		000	Const Less	ally from wine.	
silver), and manufactures thereof, except wire of nickel alloys	0.6	289 428	8	1.7	674
Tin and manufactures thereof, except blocks, ingots, bars, slabs and foil		40 67	}	0.3	137
Zinc or spelter				THE TAXABLE	TO TORRE TORREST
Unwrought, in ingots, blocks, bars, slabs and cakes; sheets, strip, plates, foil, discs				70.00	Lineway Res
and circles; and zinc dust	2.2	439	6	2.6	272
	Th.cwts.	San Han	Martin d	Th.cwts.	49
Zinc alloy pressure die-castings	8.5	1 56	12 {	••	1
Other manufactures of zinc	3.0	61	} 6 {	12.2	202 63
Total zinc and manufactures thereof	LE	671			587
White metal alloys	8.1 1	distanted b	an enema	errie cilici ca	Pauls sature
Unwrought or partly wrought, other than type- metal	45.6	1,237	8 2 2	18.2	347 (c)
Wrought or manufactured other than printing type	1.3	40	{	5.6	122 83
Total white metal alloys and manufactures thereof		1,277	o weether	103-2 2859W	551
	Th.lbs.			Th.lbs.	
Bismuth (metal) not including alloys of bismuth; cadmium; manganese metal; and tungsten in all	2457.491				555 3 4945
forms except ferro-tungsten	1.466.8	1.416	of the Dis	2.649.6	8 59 (d)
Server August 1 and 1 and 1	Th. tons	2 402 990	SE 200 -3	Th. tons	exception deputy
Other non-ferrous metals and alloys of metals, including antimony and manufactures of antimony but excluding precious metals	4.4	1.894	} 17 {	0.1	25 86
Miscellaneous manufactures, etc., other than concentrates, metallic residues, wastes, etc. not elsewhere specified	\$ 5 C	1,416	17		1,391(e)
Work done for the trade or on commission (f)	0.00	206		Mary Bary Sea Berry	212
Total		33,606	in the same	ge. legger the	18,679
g) Including sheet.		E		4 10 10 10 10 10	

(a) Including sheet.
(b) Including antimonial and tinny lead.
(c) Including type-metal.
(d) Including chromium metal.
(e) Including concentrates, metallic residues, wastes, etc. not elsewhere specified.
(f) Amount charged.

Sales in the trade of other than principal products

Larger establishments

TABLE 10

	United Kingdom 1951		Great Britain 1948	
	Quantity	Value	Quantity	Value
	Th.cwts.	£,000	Th.cwts.	£,000
Aluminium and aluminium alloys				
Wire	22.5	378	28.0	339
Domestic hollow-ware and other manufactures	• ***	99		200
Brass and other copper alloys, including nickel silver, but excluding all other nickel alloys	Th. tons	No.	Th. tons	ON PROPERTORNA
Wire in coils	8.6	2,343	6.2	1,122
Rough castings	4.2	1.731	4.4	1,218
Finished castings	2.1	1,541	1.9	914
A CONTRACTOR OF THE PARTY OF TH	1207		4	114
Other manufactures	TO BEET !	1,394	# - # - # - 1	678
Copper wire in coils (including uninsulated electric wire) and other manufactures	8.2	2.055	14.3	2,290
	Th.cwts.	Billion mi so	Th.cwts.	Minetel place
Wire of non-ferrous metals other than aluminium, and copper and alloys	21.4	817 301	39.5	785
Contain the Contai	Th. tons		Th. tons	The second
Iron and steel	12.01			61/52/11/D
Iron castings	3.5	260	4.6	343
Other manufactures	16.8	1,089	1.3	321
Machinery and other engineering products	one same a	2,809	SEPREMODIAL NA H	2,142
Chemical manufactures		7,097	appete for	3,330
	Th.cwts.		Th.cwts.	83 83 863383
Paints, varnishes and enamels	59.2	7 56	113.1	567
Hardware, metal furniture and sheet metal goods	i seer	965	h	yella
Other goods	100 1000 10	5.800	}	4.176
The company of the same of the	Th. tons		Th. tons	dial.
Scrap metals sold	He ;	paties one and	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1-0-52
Aluminium and aluminium alloys	20.5	1.665	27.5	1,263
Copper	12.5	2,410	18.6	2.344
Brass, including all alloys of copper but excluding nickel alloys other than nickel	10.0	0.040	the transfer	estimate allow
silver	18.6	2,942	26.8	1,900
Lead	1.3	165	1.4	102
Zinc	1.2	117	0.7	24
Iron and steel	90.3	466	92.3	304
Other metals	6.9	8 38	1.6	17 4
Work done for the trade or on commission (a)	i asei	211	Chances on the	33
Total		38,515		24,788

(a) Amount charged.

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

Note - Owing to the possible inclusion of the same metal at different stages of manufacture the production figures for certain headings shown in the table may involve some duplication.

TABLE 11

TOTAL CONTRACT CONTRACTOR	305.3	Production (b)	Exports	Retained imports
Aluminium and aluminium alloys		Th. tons	Th. tons	Th. tons
Ingots and notch bars, virgin	1951	51.1	0.2	973
Ingots and notch bars, secondary	1951	102.0(c)	1.9	areatien merrea
ringo ts did noten bars, secondary	13.51	102.0(6)	1.3	pa. 30820 • bab \$10
Total ingots and notch bars	{ 1951 1948	153.1(c) 129.9	2.0 6.5	153.4 139.1
	(1051	040.5		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Blocks, slabs, billets and wirebars	{ 19 51 19 48	340.5 272.6(e)		23.9(d)
Tatal in anta antak basa blada	(1951	493.6(c)	2.0	177.3(d)
Total ingots, notch bars, blocks, slabs, billets and wirebars (f)	1948	402.5	6.5	139.1
598.0 1 8.81 R 0.22	1937	74.0	3.6	31.2
Sheets, plates and strip (flat or in coil), exceeding 0.006 inches in thickness	10,191			100
Pure	1951	93.2	10.4	in the
Alloy	la unsi			
Corrugated	1951	10.6	6.6	Lead a long o
Other	1951	58.0	9.3	. 60 643 cion 70%
Total sheets, etc. exceeding 0.006	(1951	161.8	26.3	es utablismen redu
inches in thickness	1948	140.1	31.1	•
Discs, circles and slugs, exceeding 0.006 inches in thickness				survivorena lenga
Pure	1951	14.2	4.5	
Alloy	1951	1.1	0.7	••
Total discs, etc., exceeding 0.006	∫ 1951	15.3	5.2	
inches in thickness	1948	17.3	7.3	••
Total sheets, discs, etc., exceeding	{ 1951 1948	177.1	31.5 38.5	1.3(g)
0.006 inches in thickness	(1340	157.4	36.3	0.1(g)
Bars (other than notch bars and wirebars), rods, angles, shapes and sections	5.4			XAGGG
Pure	1951	5.6(h)	1.3	hadala gulhalara
Alloy	1951	28.1(h)	2:.6	nevise
Tubes				0.2(i)
Pure	1951	2.1	0.2	504
Alloy	1951	7.7	1.0	
		Th.cwts.	Th.cwts.	Th.cwts.
	(1951	255.7(h)	77.0	18.4
Foil (strip, etc. not exceeding 0.006 inches in thickness)	1948	154.4(h)	60.9	4.4
Inches In Chicagos,	(1937	99.2(h)	15.2	30.1
		Th. tons	Th. tons	Th. tons
	S 1951	68.9(h)	0.1	••
Castings, forgings and stampings	1948	47.2(h) 18.1(h)	0.1	-
		Th.cwts.	Th.cwts.	Th.cwts.
	(1951	102.8(h)	15.1	
Powder, flake and granulated	1948	66.4(h)	16.6	
		Th.lbs.	Th.lbs.	Th.lbs.
smuth (metal), not including alloys of	§ 1951	683.2	400.0	557.4
ismuth	1948	57 4.7 (h)	247.3	441.0

TABLE 11 (contd.)

	es la subsect	Production (b)	Exports	Retained imports
Brass and other copper alloys, excluding	Little D. W. C.	Th. tons	Th.tons	Th. tons
Ingots, blocks, slabs, billets, bars (including mirebars) and cast strip (k)		343.6 375.6	7.2	0.2
ding wirebars), and cast strip (k) Plates, sheets, foil, strip, discs and circle	1937	265.0 75.3 80.8	3.5 4.1 10.8	0.1 0.2 0.1
Plates, sheets, 1011, strip, discs and circle	(1951	63.7	5.0	2.7
Round brass rods	{ 1948	39.3	5.1	••
Other rods, and sections, shapes and angles, and wire not in coils	{ 1951 1948	69.0 91.7	1.8	and Aleers message
Total rods, sections, shapes and angles, and wire not in coils	{ 1951 1948 1937	129.9 131.0 104.6	4.0 9.0 2.1	0.5 (1) 0.7
		Th.cwts.	Th.cwts.	Th.cwts.
Tubes	1951 1948 1937	313.7(h) 403.8(h) 291.7(h)	64.6 61.8 40.0	1.2 0.5 8.0
Cadmium	{ 1951 1949	Th.1bs. 524.9(h) 294.7(h)	Th.lbs.	Th.1bs. 1,485.1 1,043.7
Copper	1948	Th. tons	Th.tons	Th. tons
Unwrought: ingots, blocks, slabs, bars, billets, cakes, cathodes and anodes, including rough copper of 94 per cent. copper content or over	{ 1951 1948 1937	166.1 217.9 112.3	3.2 21.2 13.1	355.6 356.7 293.2
Plates, sheets, strip, foil, discs and circles	(1051	18081	1.7	says paldners
3/8 inch thick and over	$ \left\{ \begin{array}{l} 1951 \\ 1948 \\ 1937 \end{array} \right. $	8.4 9.3 9.5	1.7 2.2 1.3	100 10 20 10 13 1 0010 1 102 1
Other sheets, strip, foil, discs and circles, exceeding 6 inches in width or diameter	$ \left\{ \begin{array}{c} 1951 \\ 1948 \\ 1937 \end{array} \right. $	29.6 28.6 23.7	5.4 8.6 7.1	2.2
Strip (including high conductivity strip), foil, discs and circles, not exceeding 6 inches in width or diameter	1951	35.9	2.2(m)	- (m)
Rods, sections, shapes and angles, and wire not in coils	<pre>{ 1951 1948 1937</pre>	157.7 222.7 109.5	0.7 2.9 1.0	12.7 18.2
Tubes	(1951	41.9(h)	4.2	the little see that and a
Solid drawn, of circular section	1948	40.1(h) 24.5(h)	4.2	2.4
Other	1951 1948 1937	1.4(n) 0.6(h) 0.3(h)	0.6 1.5 0.2	0.1
√eαd				and the second section
Unwrought, in pigs, ingots, blocks, bars, slabs and cakes	$ \begin{cases} 1951 \\ 1948 \\ 1937 \end{cases} $	115.8 106.1 129.8	1.1 0.7 5.1	175.2 160.9 335.8
Sheet	$ \begin{cases} 1951 \\ 1948 \\ 1937 \end{cases} $	37.8(h) 38.3(h) 78.9(h)	1.9 1.6 3.4	0.4
Pipes	$ \begin{cases} 1951 \\ 1948 \\ 1937 \end{cases} $	23.6(h) 33.8(h) 91.3(h)	0.5 0.5 1.7	0.2
Magnesium and magnesium alloys	1951 1948 1937	Th.cwts. 241.2(h) 219.2(n) 70.8(h)	Th.cwts. 8.4 5.5	Th.cwts.
Manganese metal	{ 1951 1948	19.5(h) 24.3(h)	1.3 11.9	1.7

TABLE 11 (contd.)

	45.4	Production (b)	Exports	Retained imports
Tin	PRINCIPLE IN	Th. tons	Th. tons	Th. tons
Blocks, ingots, bars and slabs	<pre>{ 1951 1948 1937</pre>	27.9 28.6 37.5	4.9 2.2 14.8	9.9(o) 0.2 8.3
Solder, soft	<pre>{ 1951 1948 1937</pre>	22.4 17.4 17.3	2.6 1.3 2.2	(o) - 0.1
Fail	{ 1951 1948	0.6(h) 0.5(h)	0.1	of stabile of
Tungsten in all forms, except ferro-tungsten	{ 1951 1948 1937	Th.1bs. 576.2(h) 549.6(h) 2,214.6(h)	Th.1bs. 186.8 245.5 384.9	Th.lbs. 7.6 1.3 7.8
Zinc or spelter Unwrought, in ingots, blocks, bars, slabs and cakes	{ 1951 1948 1937	Th. tons 72.4 73.6 71.1	Th. tons - 1.0 4.9	Th. tons 121.9 167.7 173.4
Sheets, strip, plates, foil, discs and circles	{ 1951 1948 1937	14.2(h) 20.6(h) 15.8(h)	2.1(p) 2.9(p) 1.7	1.1(p) - (p) 9.0
White metal alloys	が大き物を			
Unwrought or partly wrought Anti-friction metal	{ 1951 1948 1937	5. 2 5. 2 4. 2	1.8 1.9 2.0	0.1(q) - 0.1
Type-metal	<pre>{ 1951 1948 1937</pre>	10.0 9.3 7.9(h)	0.8 0.6 1.5	
Wrought or manufactured	(1051	Th.cwts.	Th.cwts.	Th.cwts.
Printing type	$ \left\{ \begin{array}{c} 1951 \\ 1948 \\ 1937 \end{array} \right. $	15.4(n) 9.6(h) 14.6(h)	4.4 3.4	0.3 0.1 0.5

(a) Figures of production (or sales) refer only to larger establishments in the United Kingdom (1951 and 1937) or Great Britain (1948). All recorded exports from and imports into the United Kingdom are given in the table. The figures, therefore, are not strictly comparable.

(b) Including production (or sales) by establishments classified to other trades, except that the 1937 production (total make) figures are in respect of production by establishments classified to the Non-Ferrous Metals (Smelting, Rolling, etc.) Trade only.

(c) Including sticks.
(d) Including sticks and granules.
(e) Rolling slabs, billets and wirebars (except extruded wirebars).
(f) The 1937 figures include cakes and granules.
(g) Not specified as including slugs.
(h) Sales in 1951 and 1948, and production for sale in 1937.

(i) Including wire.
(j) The 1951 and 1948 production (or sales) figures include nickel silver.
(k) The oversea trade figures exclude cast strip.
(l) Re-exports in excess of imports.
(m) Strip not exceeding 6 inches in width, and wire other than circular.
(n) Sales, partly estimated.
(o) Retained imports of soft solder are included in the figure shown for tin blocks, ingots, bars and slabs.
(p) Exceeding 0.006 inches in thickness only.
(q) Including type metal and other sorts of white metal alloys, unwrought or partly wrought.

Usage of certain specified purchased materials, 1951 Larger establishments in the United Kingdom

TARIF 12

Materials used	Quantity
(D) (20) . The control of the contro	Th. tons
Iron and steel of all descriptions, except finished parts and scrap	21.8
Non-ferrous metals in all forms, except finished parts and scrap	12 12 A
Aluminium and aluminium alloys	377.3
Antimony	5.5
Brass and other copper alloys, including nickel silver but excluding all other nickel alloys	106.4
Copper	255.6
Lead and lead alloys	165.2
Lead compounds	(a)
Nickel and nickel alloys, other than nickel silver	(a)
Tin	13.3
Zinc and zinc alloys	117.5
Zinc compounds	(a)

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

TABLE 13

Employment in September Larger establishments (a)

	THE RELEASE CONT.	United Kingdo	m conference and a second	Great Britain		United Kingdom	
	1951(b)	1950(b)	1949(ь)	1949(c)	1948 (d)	1937 (d)	1935(d)
Males	1901 267						
Under 18	1,751	1.504	1.435		1.721	3.980	3,388
All ages	73,558	72,163	68,632	Cond Cold	75.472	47.587	39,001
Females						17,007	05,001
Under 18	563	510	492		592	1.236	1,164
All ages	13,570	12,385	11,138		10,958	4, 525	4,121
Total						Topical transfer	
Under 18	2,314	2.014	1.927		2,313	5, 216	4, 552
All ages	87.128	84,548	79,770		86.430	52.112	43,122

(continued overlegf)

TABLE 13 (contd.)

(ii) Administr	rative, technical	and clerica	al employees	(e)			Number	
	1881 /8	United Kingdom			Great Britain		United Kingdom	
	1951	1950	1949	1949(c)	1948	1937	1935	
Males Under 18 All ages Females Under 18 All ages	466 13,665 1,003 7,187	429 13,052 971 6,721	491(f) 12,330(f) 992 6,433(f)		430 11,706 913 6,209	550 5,535 426 2,002	361 4,807 278 1,642	
Total Under 18 All ages	1,469 20,852(g)	1.400 19.773(g)	1.483 18,763(g)	de case de	1,343 17,915(g)	976 7.537	639 6,449	

(iii) Total en	mployees					PROBLECT	Number
	a see	United Kingdo	m·	Great	Britain	United	Kingdom
	1951	1950	1949	1949(c)	1948	1937	1935
Males Under 18 All ages Females Under 18 All ages	2.217 87.223 1.566 20.757	1,933 85,215 1,481 19,106	1,926 80,962 1,484 17,571	1 161000 1000	2.151 87.178 1.505 17.167	4,530 53,122 1,662 6,527	3.749 43.808 1.442 5.763
Total Under 18 All ages	3.783 107,980(g)	3.414 104,321(g)	3,410 98,533(g)	TORREST TO THE	3.656 104.345(g)	6.192 59.649	5,191 49,571

(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 (employees in Great Britain engaged, for example, in merchanting and in Northern Ireland canteen and welfare workers):-

Camteen workers 101 Males 1,192 Females Other workers 295 Males 225 Females

(b) In week ended September 22, 1951, September 30, 1950, and September 24, 1949.
(c) Owing to the risk of disclosure of information relating to individual firms in Northern Ireland separate particulars for Great Britain cannot be given.

(d) Average for the year.

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

(f) Corrected figure.

(g) 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

N	u	m	b	e

THE T		United Kingdom			Great Britain		
act t	500	19 51	19 50	19 49	1949	1948	
Males	4.5	48	50	50	400.000	44	
Females		1	5	5		6	
Total	526 E	49	55	55	2,02	50	

Average employment

Larger establishments (a)

TABLE 14		A Transport	Adamson was				Number
	1	United Kingdo	om	Great	Britain	United k	Kingdom
nforfill Tosoff	1951	1950	1949	1949(ы)	1948	1937	1935
Operatives Administrative, technical and	86,394	83,319	81,178		86,430	52,112	43,122
clerical employees	20,506	19,562	18,710		17,915(c)	7,537(c)	6.449(c)
Total	106,900	102,881	99,888	1	104, 345	59,649	49,571

(a) For employment in small firms (employing on the average ten or fewer persons) that made satisfactory

(b) Owing to the risk of disclosure of information relating to individual firms in Northern Ireland separate

particulars for Great Britain cannot be given.
(c) 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.

	U1	United Kingdom			Great Britain		United Kingdom	
Mark to provide the	1951	1950	1949	1949	19 48	1937	1935	
Males Females	75	79	8 54	052	3 26	::		
Total	75	79	62	9 1	29			

Shift working, 1951 (a)

Larger establishments in Great Britain

TABLE 15

Martin and Andrews Exel Judges, by the services of the State of the St	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	110 404		
Continuous 4 shift systems per 24 hours	113,494	908,436	95
averaging 6 hours per shift		The state of the s	The Dist President Colors
All 2 shift systems	46,075	459,079	71
Other shift systems	9.023	80,930	10
Total	168,592	1,448,445	(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:-

	Ret	turns	100000	Operatives		
name of present deliberations (14)	Total in trade	Showing shift-work	Total in trade	Total on returns showing shift-work	Number employed on shift- work	
Number Percentage of total in trade Percentage of total on returns showing shift-work	100.0	153 34.0(c)	100.0	64.668 74.0(a) 100.0	31.056 36.0(c) 48.0	

(c) Rounded to avoid disclosure.

1951

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

Larger establishments

	[3-1] \$	United Kingdom			Great Britain		
THE REAL PROPERTY OF THE PARTY	1951	1950	1949	1949(a)	1948		
Wages and salaries (b) of	The second of	1150 pt 1	302 66 1		100 m 1 m 1 m 1 m 1		
Operatives Administrative, technical and	34,920	30,925	28,872		29,848		
clerical employees	11,209	9,790	9.254	••	8,346		
Total	46,129	40,715	38.126	C wader as a	38,193		
Employers' contributions to all National Insurance Schemes	1.080	1.039	1.021	bert ret rible	8 5 4		

(a) Owing to the risk of disclosure of information relating to individual firms in Northern Ireland separate particulars for Great Britain cannot be given.(b) Including bonus and commission payments, but excluding payments to outworkers shown below.

U	nited Kingdo	m	Great E	ritain
1951	1950	19 49	1949	19 48
6	6	5	37	2

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

Larger establishments

TARLE 17

	United I	Kingdom	Great E	Britain
96x 849	1951	1949	1949	1948
Plant, machinery and vehicles Acquisitions Plant and machinery	2.14.25 229.28		10 10 10 10 10 10 10 10 10 10 10 10 10 1	ed & bulgers egg 23 kda C
New Second-hand Vehicles	5.666 254	5,357 200	5.357 200	3,995 943
New Second-hand	493 136	225 56	22.5 56	270 69
Total acquisitions	6,550	5,838	5,838	5, 277
Disposals Plant and machinery Vehicles	148 90	181 38	181 38	28 5 17.1
Total disposals	238	219	219	456
ew building work Capital expenditure on new building and other constructional work of a capital nature	27 196 Same			
(excluding site values and development charges)	1,395	1,465	1,465	1,033

Summary Larger establishments

TABLE 18

(a)		Scotland	Great Britain	Northern Ireland(a)	United Kingdom
£,000	£'000	£.000	£,000	£.000	£'000
364,236	41,010	22.267	••		427,513
279,191	28,895	16,221	,	8.	324, 307
1.029	35 413	8 312	1.072	-	1.072
81,295 38,231	11.667 5,038	5.726 2.861	::		98,688 46,129
No. 88,802	No. 11,486	No. 6,661	No.	No.	No. 106,949
£ 915 £'000	£ 1,016 £'000	£ 860 £ 000	£	£	£ 923
	2 000	2 000	2 000	2 000	2 000
33,338 27,434	3.886 4.824	1.959 1.735	39,183	1-13	39,183 33,993
No.	No.	No.	No.	No.	No.
	364,236 279,191 1,029 2,722 81,295 38,231 No. 88,802 £ 915 £'000	364,236 41,010 279,191 28,895 1.029 35 2,722 413 81,295 31,667 38,231 5,038 No. No. 88,802 11,486 £ £ 915 1.016 £'000 £'000 33,338 3,886 27,434 4,824 No. No.	364.236 41.010 22.267 279.191 28.895 16.221 1.029 35 8 2.722 413 312 81.295 11.667 5.726 38.231 5.038 2.861 No. No. No. 88.802 11.486 6.661 £ £ £ 915 1.016 860 £'000 £'000 £'000 33.338 3.886 1.959 27.434 4.824 1.735 No. No. No.	364,236 41,010 22,267 279,191 28,895 16,221 1,029 35 8 1,072 2,722 413 312 3,447 81,295 11,667 5,726 38,231 5,038 2,861 No. No. No. No. 88,802 11,486 6,661 £ £ £ £ 915 1,016 860 £'000 £'000 £'000 £'000 33,338 3,886 1,959 39,183 27,434 4,824 1,735 No. No. No. No.	364,236 41,010 22,267 279,191 28,895 16,221 1,029 35 8 1,072 - 2,722 413 312 3,447 - 81,295 11,667 5,726 38,231 5,038 2,861 No. No. No. No. No. No. 88,802 11,486 6,661 £ £ £ £ £ £ 915 1,016 860 £'000 £'000 £'000 £'000 £'000 £'000 33,338 3,886 1,959 39,183 - 27,434 4,824 1,735 No. No. No. No. No. No.

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

	NAME AND ADDRESS OF THE OWNER, TH				
£,000	£,000	£,000	£,000	£,000	£,000
358,143 + 6,093	41,540	22,132	+ 5,697	- 1	421.816 + 5.697
364,236	41,010	22, 267			427,513
9 1 2 2 2			2.1000-111-12	2 3	
283,986 - 4.796	29,976 - 1,081	16.741 - 520	::		330.703 - 6.397
279,191	28,895	16,221		19.1	324,307
	358.143 + 6.093 364.236 283.986 - 4.796	358,143 41,540 + 6,093 - 530 364,236 41,010 283,986 29,976 - 4,796 - 1,081	358,143 41,540 22,132 + 6,093 - 530 + 134 364,236 41,010 22,267 283,986 29,976 16,741 - 4,796 - 1,081 - 520	358,143 41,540 22,132 + 6,093 - 530 + 134 + 5,697 364,236 41,010 22,267 283,986 29,976 16,741 - 4,796 - 1,081 - 520	358,143 41,540 22,132

(a) Owing to the risk of disclosure of information relating to individual firms, particulars for Northern Ireland, where the net output was less than 1 per cent. of that of the United Kingdom, cannot be given separately and have been included with those for England.
 (b) Excluding outworkers but including working proprietors.

Summary

Small firms in Great Britain (a)

TABLE 19

A STATE OF THE STA	England	Wales	Scotland	Great Britain
Number of returns	314	4	18	336
Average number of persons employed (b) Males Females	1.744 210	16	115	1.875 221
Total	1.954	16	126	2,096

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

(b) Including working proprietors.

United Kingdom

Scotland

Great Britain

Northern Ireland

England and Wales

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-	-

	I _		١ ــ ا		1_		1		100000	
Copper	Th. tons		Th. tons		Th. tons				Th. tons	
Unwrought; ingots, blocks, slabs, bars, billets, cakes, cathodes and anodes, including rough copper of 94 per cent. copper content or over		(a)		(a)	24.7	5, 150	_		24.7	5, 150
Plates, sheets or strip (including high conductivity strip)	58.1	16,337	97-8	250	58.1	16,337		-	58.1	16,337
Rods and sections, shapes and angles and wire not in coils					27 14 17				Financia.	
Wire rods of high conductivity	55.5	12,802		-	55.5	12,802		-	55, 5	12,802
Other rods and sections and wire not in coils, rolled	2.1	548		-	2.1	548		-	2.1	548
Shapes and angles	1.9	606			1.9	606	-	-	1.9	606
Tube shells	13.2	3,154		•	13.2	3,154	-	-	13.2	3, 154
Tubes	39.7	12,877	2.1	685	41.7	13,562		- 1	41.7	13,562
Copper castings other than engineers' and mechanicians' goods	0.8	277(Ь)	-	(10)	388.3 ani.a	(a)		(ь)	0.8	277
Wire rods other than of high conductivity; other rods and sections and wire not in coils, extruded; and other manufactures of copper except wire in coils and engineers' and mechanicians' goods	7.6	2, 19 4 37) -	- {	7.6	2, 194 37	} -	- {	7.6	2, 194
Total copper and manufactures thereof	Alexander .	(a)		(a)		(a)		(a)		54,668
Lead						two			· ·	
Unwrought in pigs, ingots, blocks, bars, slabs and cakes; pipes; collapsible tubes of lead	94.9	14.985 206	} 5.3	812 {	100.2	15.797 206	} -	- {	100.2	15.797 206
Sheet		(a)		(a)	37.8	6,594			37.8	6.594
Foil	1.2	249			1.2	249			1.2	249
	Th.cwts.				Th.cwts.				Th.cwts.	
Lead shot	25.2	48 4			25.2	48 4	-		25.2	48 4
Antimonial and tinny lead	1,036.6	9,192			1,036.6	9,192			1.036.6	9,192
Other manufactures of lead	29	(a)	40.000	(a) {	113.5	1,460 248	} -	- {	113.5	1,460 248
Total lead and manufactures thereof	Commercial	(a)	Ange cask	(a)	constitute.	34,231	E 1/90 1 2.12	30795	games in	34, 231
Magnesium and magnesium alloys Castings	76.4	2,081	-		76.4	2,081	10.2000	Inches	76.4	2,081
Ingots, sticks, slabs and billets, and manufactures of magnesium and magnesium alloys other than castings	16 4.8	2, 423	-	-	164.8	2,423	-	•	164.8	2,423
Total magnesium and magnesium alloys	241.2	4,504		-	241.2	4,504			241.2	4,504

NON-FERROUS

META

LS (SMELTING, ROLLING, ETC.) COUNTRY TABLES

TABLE 20 (contd.)

	England	and Wales	Scot	land	Great F	Britain	Northern	Ireland	United H	Kingdom
the section of the se	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Principal products (cantd.)	Th. tons	£,000	Th. tons	£, 000	Th. tons	£, 000		£,000	Th.tons	£,000
Nickel and nickel alloys (other than nickel	25 ° 10 38 ± 10	17.757			1163610	27 TAG			trans	
silver), and manufactures thereof, except wire of nickel alloys	1 2015 SECTIONS	(a)		(a) {	32.9	16,704 37	} -	- {	32.9	16,704
Tin		N SA				543			The being	1 140
Blocks, ingots, bars and slabs		(a)		(a)	28.4	28,036			28.4	28,036
Foil	0.6	568	-		0.6	568			0.6	568
Solder, soft; collapsible tubes of tin; other manufactures of tin		(a).		(a) {	22.6	11,782	} -	- {	22.6	11,782
Total tin and manufactures thereof		(a)		(a)		40,563				40,563
Zinc or spelter										
Unwrought in ingots, blocks, bars, slabs and cakes; sheet, strip, plates, foil,		10 504				3, 19 t 37 37 1			3 8	
discs and circles; zinc dust	93.7	16,534	0.6	98	94.4	16,632	•	•	94.4	16,632
Zinc alloy ingots (for die-castings)	Th.cwts.	6,194	Th. cwts.		Th.cwts.	6,194			Th.cwts.	0.104
Zinc alloy pressure die-castings		(a)		(a)	399.9	6,838			399.9	6,194
Other manufactures of zinc	33	(a)	1	(a) {	18.6	229	} -	- {	18.6	229
Total zinc and manufactures thereof		(a)		(a)	7-1	29,965	_	-	•••	29,965
White metal alloys						259				0.419
Unwrought or partly wrought					Th. tons				Th. tons	
Type metal		(a)		(a)	9.8	2, 239			9.8	2,239
					Th.cwts.				Th.cwts.	
Other sorts, including anti-friction metal	122.2	4, 47 4	8.6	228	130.8	4,702			130.8	4,702
Wrought or manufactured		1		(10)		2, 120			365	2 730
Printing type		(a)		(a) {	11.2	338 125	} -	- {	11.2	338 125
Other manufactures	0.2	4		-	0.2	4	-	-	0.2	4
Total white metal alloys and manufactures thereof	331. 1011.0	7,078	The sense.	330	Salesa	7,408		-	Breeze	7,408

				t							
1000	Bismuth (metal) not including alloys of bismuth; cadmium; manganese metal and	Th.lbs.				Th.lbs.				Th.lbs.	
	tungsten in all forms except ferro-tungsten	2, 47 5. 2	2,620	-		2, 47 5. 2	2,620			2.475.2	2,620
	Other non-ferrous metals and alloys of	Th. tons				Th. tons				Th. tons	
	metals including antimony and manufactures of antimony but excluding precious metals	2.0	7 47	-	- ,	2.0	7 47	} -		2.0	7 47 42
	Miscellaneous manufactures, etc.										42
	Concentrates, metallic residues, wastes,			Th. tons							
	etc. not elsewhere specified	146.5	3,707	0.9	93	147.3	3,800	-	-	147.3	3,800
	Lighter flints; metallic packings; hard metal powder (including tungsten		100 mm m	CONTRACTOR	11.200						
	carbide powder and matrix) and other finished non-ferrous metal products		1 07 0	THE RESERVE	TARREL R	parers on	at correct	5080 S 54 1			
	Work done for the trade or on commission (c)	•	1,073		- 00		1,073	-	-		1,073
	Repair work (c)				32		2,307	-	•		2, 307
	Reputi work (c)	3	(a)		(a)		(a)		(a)		138
	Total principal products		363,021(ы)		20,280		(a)		(P)		383,301
	Other output	Th.cwts.				Th.cwts.				Th.cwts.	
	Aluminium and aluminium alloys		- 775							In.cwts.	
	Wire	22.5	378	-	-	22.5	378			22.5	378
	Domestic hollow-ware and other manufac- tures		(a)		(a)		00				
	Brass and other copper alloys, including	••	(4)		(a)		99		•		99
	nickel silver, but excluding all other										
	nickel alloys	Th. tons				Th. tons				Th. tons	
	Wire in coils	8.6	2,343	•	•	8.6	2,343	•	•	8.6	2,343
	Rough castings	3.9	1,627		(a)		(a)		(a)	4.2	1,731
	Finished castings	1.9	1,448(ь)	0.1	93		(a)		(P)	2.1	1,541
	Other manufactures		(a)		(a)		1,394	•	•		1.394
	Copper wire in coils, (including uninsulated electric wire) and other manufactures	8.2	2,055			8.2	2,055			8.2	2,055
	MARKET AUXILIAN ENVIRONMENTS	Th.cwts.				Th.cwts.				Th.cwts.	
	Wire of non-ferrous metals other than aluminium and copper and alloys	21.4	817		- 5	21.4	817		- (21.4	817
	Iron and steel	Th. tons	301			Th	301		- 1		301
	Iron castings	in. tons	(a)		(a)	Th.tons	260			Th.tons	260
	Other monufactures	16.8	1,089		, ,	16.8	1,089		(16.8	1.089
	1 manufactures		200		- 1		200		- {		200

MANUFACTURE

COUNTRY

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

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

(c) Amount charged.

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

Larger establishments

TABLE 21

£.000

70-0 OR		England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Products on hand for sale	{ at beginning of year at end of year	13.336 16.667	8 49 902	14,185 17,568	-	14,185 17,568
Work in progress	at beginning of year at end of year	18,325 20,557	975 1.057	19,300 21,614		19.300 21.614
Total products on hand for sale and work in progress	{ at beginning of year at end of year	31,661 37,224	1.825	33, 48 5 39, 18 3		33.485 39,183
Materials and fuel	at beginning of year at end of year	26.381(a) 32.258(a)	1.215 1.735	20000	(a) (a)	27.596 33.993

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

Employment in September

TABLE 22

Larger establishments(a)(b)

100	England and Wales (c)	Scotland	Great Britain	Northern Ireland (c)	United Kingdom
Males	1.000	00			1 751
Under 18	1,663	88			1.751
All ages	68,566	4,992	••	••	73,558
Females					
Under 18	548	15			563
All ages	12,982	588			13,570
Total					1000
Under 18	2,211	103			2.314
All ages	81,548	5, 580			87,128

	England and Wales (c)	Scotland	Great Britain	Northern Ireland (c)	United Kingdom
Males			A SEASON TO SEAS		
Under 18	449	17			466
All ages	12,885	780			13,665
Females					
Under 18	9 56	47			1,003
All ages	6.776	411			7,187
otal	TO THE REPORT OF THE PARTY OF T	i benilopi	1 上班 为此 19 44		
Under 18	1,405	64			1,469
All ages (d)	19,661	1,191	3.0		20,852

(continued overleaf)

TABLE 22 (contd.)

	England and Wales	Scotland	Great Britain	Northern Ireland (c)	United Kingdom
Males			or annual l		
Under 18	2,112	105			2,217
All ages	81, 451	5,772			87,223
Females					
Under 18	1.504	62			1,566
All ages	19,758	999			20,757
[otal					
Under 18	3,616	167	very to petualpus	100 1	3.783
All ages (d)	101,209	6,771	The state of the same	THE RESERVE OF THE PARTY OF THE	107.980

(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 (employees in Great Britain engaged, for example, in merchanting and in Northern Ireland canteen and welfare workers) are shown in Table 22(v) below.

(b) Number employed in the week ended September 22, 1951.

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

(d) Working proprietors. In addition working proprietors, shown in Table 22(iv) below, were engaged in this trade in larger establishments.

(iv) Working proprietors								
	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom			
Males Females	41	(e) -	i	(e) -	48			
Total	42.	(e)		(e)	49			

	England and Wales	Scotland (e)	Great Britain	Northern Ireland	II.: 4 - 3 V: 3	
	.(e)	beotlana (e)	diede bilteri	Northern Treland	United Kingdon	
Canteen workers				299		
Males			101	on house de	101	
Females			1,192		1,192	
Total			1.293		1,293	
ther workers						
Males			29 5	-	29 5	
Females			225	-	225	
Total			520	-	520	
	The second secon				1,813	
Total excluded employees			1,813		No.	

(e) Owing to the risk of disclosure of information relating to individual firms, separate particulars cannot

Average employment

Larger establishments (a)

TA	RI	F.	2	3

	England and Wales (b)	Scotland	Great Britain	Northern Ireland (b)	United Kingdom
Operatives Administrative, technical and clerical employees	80,915	5, 479	130		86,394
	19,327	1,179	••		20,506
Total	100,242	6.658			106,900

(a) For employment in small firms in Great Britain (employing on the average ten or fewer persons) that made

satisfactory returns see Table 19.

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

Outworkers. In addition to the employees shown above the firms in this trade employed 75 female outworkers (all in England and Wales).

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

Larger establishments

TABLE 24

TARIE 25

£.000

	England and Wales (a)	Scotland	Great Britain	Northern Ireland (a)	United Kingdom
Wages and salaries (b) of					
Operatives	32,754	2,167			34.920
Administrative, technical and clerical employees	10,515	69 4			11,209
Total	43,268	2,861			46,129
Employers' contributions to all National Insurance Schemes	1,011	69	••	••	1,080

(a) Owing to the risk of disclosure of information relating to individual firms, particulars for Northern Ireland cannot be given separately and have been included with those for England and Wales.
 (b) Including bonus and commission payments but excluding payments to outworkers in England and Wales

amounting to £6,000.

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

Larger establishments

£'000

IABLE 23					
	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Plant, machinery and vehicles Acquisitions Plant and machinery					
New	5,106	559	5,665	-	5.666
Second-hand	253	2	254	-	254
Vehicles					
New	471	22	493	-	493
Second-hand	134	3	136	-	136
Total acquisitions	5,964	58 6	6,549	-	6,550
Disposals					
Plant and machinery	107	41	148	-	148
Vehicles	86	4	90	-	90
Total disposals	193	45	238	-	238
New building work Capital expenditure on new building and other constructional work of a capital nature (excluding site values and development charges)	1,282	113	1,395		1,395

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

Larger establishments

TABLE 20					
	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Amounts paid to other firms and undertakings Amount paid or credited to firms' own separate	2,896	310	3,205	1	3,206
transport organisations	239	2	241	A Rest territor	241
Total	3,135	312	3.447		3,447

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 parttime 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 exworks 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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