49 Miscellaneous base metals

This Report on the Miscellaneous Base Metals Industry relates to establishments engaged wholly or mainly in smelting and refining lead, zinc, magnesium and titanium and manufacturing their alloys and the production in these metals and alloys of ingots, bars, billets, sheets, strip, foil, circles, sections, rods, pipes, tubes, etc, and of die castings. The manufacture of ferro-chrome, ferro-molybdenum, ferro-silicon, ferro-tungsten, etc, other than in blast furnaces and the smelting, refining and melting of other non-ferrous metals, not reported on elsewhere, are also included but wire drawing and the production of finished goods such as hollow-ware are excluded.

This industry corresponds to minimum list heading 323 in the Standard Industrial Classification (Revised 1968) which has been used for the first time as a basis of classification in the 1968 Census.

The industry formed part of the Non-ferrous Metals Industry (Part 40) in the Reports on the last detailed Census of Production for 1963 and the remainder is is now the subject of two other Reports for 1968, Aluminium and Aluminium Alloys (Part 47) and Copper, Brass and Other Copper Alloys (Part 48).

Throughout this Report the figures given for 1963 have been reclassified as far as possible according to the Standard Industrial Classification (Revised 1968) so that data for 1963 and 1968 are on the same industrial basis. However the reclassification of small firms which provided limited information only has been arbitrary.

There were no large establishments in this industry in Northern Ireland in 1963 and 1968.

METHOD OF CLASSIFICATION

The classification of returns to this industry followed the standard procedure as outlined in the notes on page (i). A different procedure was used in classifying returns to the sub-divisions of the industry shown in Table 4. Returns in which the combined sales of magnesium, titanium, and their alloys amounted to over half their total output were classified to 'Smelters, refiners, fabricators and founders of magnesium, titanium and their alloys'.

The remaining returns were divided into two main groups, namely 'Smelters and refiners of lead, tin, zinc, and their alloys' and 'Smelters and refiners of other metals (except magnesium, titanium and their alloys)' on the basis of major sales, unless the processing of these metals, apart from smelting and refining, amounted to ten per cent. or more of the total for smelting and refining, in which case they were classified to another group 'Fabricators, Founders and die-casters of lead, zinc and other metals' (except magnesium, titanium and their alloys).

In interpreting the data in the tables it is essential to bear in mind the notes and definitions which appear on pages (i) to (iv).

49/3

LIST OF TABLES

Table No.	Title	Page
	SECTION I - Estimates for all establishments in the industry	
1	Industry summary, 1963 and 1968	49/3
2	Analysis by size of establishment within the industry, 1968	49/4
3	Percentage analysis of employees, by age and sex, 1969	49/5
	SECTION II - Analysis of returns received	
4	Analysis of larger establishments, 1963 and 1968	49/6
5	Sales of principal products of the industry by larger establishments, including sales by establishments classified to other industries, 1963 and 1968	49/8
6	Sales of principal products of the industry by larger establishments classified to other industries, 1963 and 1968	49/1
7	Sales of other than principal products by larger establishments in the industry, 1963 and 1968	49/1
8	Production of certain principal products of the industry by larger establishments, 1963 and 1968	DOES NOT APPL
9	Purchases by larger establishments of selected principal products of the industry, 1968	49/1
10	Purchases by larger establishments in the industry, 1963 and 1968	49/1
11	Transport costs and employment of larger establishments, 1963 and 1968	49/1
12	Payments for certain services, etc by larger establishments, 1963 and 1968	49/1
13	Percentage analysis of twelve-month periods covered by returns from larger establishments, 1968	49/2

Footnotes continued from page 49/3.

- (c) Including services rendered to other organisations (amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered).
- (d) Administrative, technical and clerical employees.
- (e) Excluding expenditure for establishments not yet in production.
- (f) Acquisitions <u>less</u> disposals.

TABLE 1 Industry summary, 1963 and 1968 United Kingdom (a) (b)

		The state of	All estab	olishments
		Unit	1963	1968
umber of enterprises	STATE	No.	213	176
umber of establishments		"	257	217
ross output		£.000	210,695	382,033
et output		11	47,266	67,615
et output per head		£	1,582	2,741
	goods produced and work done (c)	T.000	184,679	293,084
les and work done	merchanted goods and canteen takings	11	26,947	88,313
100	materials for use in production and packaging and fuel	п	138,000	235,116
rchases	goods for merchanting and canteen purchases	"	21,985	80,332
	for work done on materials given out	- "	1,538	1,239
ayments to other rganisations	for transport by road	"		1,820
	by rail and other means excluding postal services	"	1,666	582
tocks and work in progress	s commo de personal de la commo de la comm			
Total stocks and work in	change during year	"	- 1,171	+ 5,308
progress	at end of year	"	46,644	67,884
O l hard for colo	change during year	"	- 2,557	+ 828
Goods on hand for sale	at end of year	"	13,628	19,975
	change during year	"	+ 1,627	- 192
Work in progress	at end of year	"	19,705	21,188
	change during year	"	- 241	+ 4,671
Materials, stores and fu		"	13,310	26,722
	f total, including working proprietors	Th.	29.9	24.7
umber employed on average		"	22.0	17.0
uring the year	other employees (d)	"	7.7	7.5
	of operatives	£,000	15,401	17,211
ages and salaries	of other employees (d)	"	7,669	9,939
:	of other amproyees (a)		1,000	1
apital expenditure (e)		"	5 710	
Total		"	5,718 1,686	6,925 1,371
New building work	neg (f)		- 214	
Land and existing buildi	ngs (1)	"		- 118
Plant and machinery (f)		11	4,036	5,450
Vehicles (f)			210	222

(a) For 1968, estimates for establishments not making satisfactory returns and for small establishments from which only employment data were collected, accounted for 5 per cent.of the total figures in which they were incorporated: of this, unsatisfactory returns accounted for 1 per cent. For 1963 the comparable figures were 6 per cent. and 1 per cent. respectively.

(b) The following information relates to small establishments (employing fewer than 25 persons) in this industry. It includes an estimate for small establishments not making satisfactory returns.

1963	1968
140	103
190	76
1,343	1,014
	140 190

Footnotes continued on page 49/2,

TABLE 2 Analysis by size of establishment within the industry, 1968

(i) Output and employment

All establishments: United Kingdom

Number employed on average during the year by the establishment (a)	Estab- lish- ments	Enter- prises (b)	Total number employed on average during the year (a)	Gross output	Net output	Net output per head
	Number	Number	Number	£'000	£'000	£
1-5	29	29	105			
6-10	26	26	200			
11-24	43	43	757			
25-49	30	27	1,047	13,131	2,663	2,544
50-99	32	29	2,183	22,398	4,411	2,021
100-199	20	17	2,836	58,427	8,261	2,913
200-299	9	8	2,101	30,752	4,196	1,997
300-499	6	3	2,254	23,608	5,703	2,530
500-749	5	4	3,099	74,575	10,517	3,394
1,000 and over	6	5	9,818	138,536	28,164	2,868
Unsatisfactory returns	11	11	270		n la fired	
Total	217	176	24,670	382,033(c)	67,615(c)	2,741(c

(ii) Employees, wages and salaries

All establishments: United Kingdom

Number employed on average during the	Emp l	oyees	Wages and	salaries	Wages and salaries per head		
year by the establishment (a)	Oper- atives	Others (d)	Oper- atives	Others (d)	Oper- atives	Others (d)	
	Number	Number	£,000	£,000	£	£	
1-5	18801			1000	esago In		
6-10				- lavolano	spare le		
11-24						(0)	
25-49	777	257	682	356	877	1,387	
50-99	1,726	443	1,483	625	859	1,410	
100-199	1,991	840	1,973	1,131	991	1,347	
200-299	1,530	569	1,599	656	1,045	1,152	
300-499	1,446	808	1,445	1,006	999	1,245	
500-749	2,113	986	2,291	1,310	1,084	1,329	
1,000 and over	6,585	3,234	6,866	4,342	1,043	1,343	
Unsatisfactory returns	1. 1. 1. 1. 1. 1.	MOSSIN MOSSIS	95 (1992-963)	ianam. ald	l lobafa	tograph er	
Total	17,041(c)	7,518(c)	17,211(c)	9,939(c)	1,010(c)	1,322(c)	

(a) Including working proprietors.

(b) The sum of the figures for the size groups exceeds the total for the industry to the extent that enterprises made returns for establishments in more than one size group.

(c) Including estimates for establishments employing fewer than 25 persons and for establishments not making satisfactory returns.

(d) Administrative, technical and clerical employees.

TABLE 3 Percentage analysis of employees, by age and sex, 1969 (a)

All establishments: United Kingdom

Ages	Males	Females	All employees
	Per cent.	Per cent.	Per cent.
Under 18	2	1	3
18 and over	79	18	97
All ages	81	19	100

Source: Department of Employment

(a) The percentages relate to the numbers employed (excluding working proprietors) at June 1969, the earliest date for which the information is available on the basis of the Standard Industrial Classification, (Revised 1968).

Footnotes to Table 4.

- (a) Some establishments employing fewer than 25 persons were included in returns for larger establishments. These amounted to 7 establishments in 1968 and 12 in 1963.
- (b) The method of classifying returns to sub-divisions of the industry is explained in the notes; the characteristic products of each sub-division are identified in Table 5.
- (c) Excluding aluminium and copper and their alloys.
- (d) The sum of the figures for the sub-divisions exceeds the total for the industry to the extent that enterprises made returns for more than one sub-division.
- (e) Including services rendered to other organisations (amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered).
- (f) Direct sales of goods (excluding canteen takings) made to, and work done for, the general public by larger establishments are included. These amounted to £3,000 in 1968. Similar information is not available for 1963.
- (g) Characteristic products relate only to specific sub-divisior of the industry.
- (h) For sub-divisions of the industry, this is the ratio of sales of characteristic products to total sales of goods produced and work done. For the industry as a whole, this is the ratio of total sales of principal products by the industry to total sales of goods produced and work done.
- (i) Administrative, technical and clerical employees.
- (j) Excluding expenditure for establishments not yet in production.
- (k) Acquisitions less disposals.

TABLE 4 Analysis of larger establishments, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom (a)

			Sub-divis the indus	
	The beauty of the second of th	Unit		in, zinc r alloys
			1963	1968
Number of enterprises (d)		No.	10	13
Number of establishments		"	16	20
Gross output		£'000	54,201	132,389
Net output		"	6,721	12,681
Net output per head		£	2,058	3,310
Sales and work done	goods produced and work done (e) (f)	£,000	49,971	108,938
	merchanted goods and canteen takings	"	4,406	23,095
Sales of characteristic produc	ts	"	42,017	93,773
Index of specialisation (h)		Per cent.	84	86
Purchases	materials for use in production and packaging, and fuel	£,000	44,471	99,628
Purchases	goods for merchanting and canteen purchases	"	3,077	20,731
	for work done on materials given out	н	19	61
Payments to other organisations	for transport by road	"	419	550
	by rail and other means excluding postal services	"		328
Stocks and work in progress	A STATE OF THE STA		450	110
Goods on hand for sale	change during year		- 458	- 110
	L at end of year		1,733	3,132
Work in progress	change during year	"	+ 283	+ 466
work in progress	at end of year	"	3,761	5,954
Motorials stores	change during year	"	+ 505	+ 1,589
Materials, stores and fuel	at end of year	"	2,955	5,711
	total, including working proprietors	No.	3,265	3,831
Number employed on	operatives	"	2,337	2,810
average during the year	other employees (i)	"	928	1,017
	of operatives	£'000	1,873	2,954
Wages and salaries	of other employees (i)	"	962	1,512
		£	802	1,051
Wages and salaries per head	<pre>{ operatives other employees (i)</pre>	"	1,036	1,486
Capital expenditure (j) New building work		£'000	145	310
	(acquisitions	п	2	1
Land and existing buildings		п	2	29(k)
	acquisitions	"	529	770
Plant and machinery	disposals		11	5
		u u	54	58
Vehicles	acquisitions disposals	"	13	25

Fabricators, founders and die-casters of lead, zinc Smelters and refiners and other metals and smelters, refiners, of other metals except Total magnesium, titanium and fabricators and founders their alloys (c) of magnesium, titanium and their alloys (c) 03 and 04 02 1963 1968 1963 1968 1963 1968 58 50 79 16 23 80 21 28 86 67 123 115 145,779 69,931 84,585 198,950 74,818 362,753 22,305 44,631 64,203 15,606 27,521 24,001 2,072 1,582 4,109 1,280 1,861 2,741 91,355 62,359 78,000 174,384 278,293 62,054 5,557 25,445 83,856 12,801 55,204 8,238 51,838 77,403 (g) (g) (g) (g) 85 88 84 . . 67,038 38,685 56,584 130,307 223,250 47,151 10,210 50,211 7,472 5,336 20,759 76,278 670 807 1,453 1,176 764 308 1,728 1,573 766 596 807 388 553 - 2,414 786 618 278 926 1,030 5,443 18,967 12,869 4,230 10,392 6,906 - 182 993 - 1,058 260 410 + 1,536 20,118 12,221 10,604 2,625 3,560 18,607 + 2,740 227 + 4,435 106 33 699 11,278 12,568 25,373 8,383 6,129 3,485 28,220 23,425 6,693 17,422 12,896 7,533 16,230 20,907 5,030 4,220 13,540 9,200 7,273 7,160 3,845 3,669 2,500 2,474 16,399 8,593 8,998 14,638 4,447 4,172 9,462 3,827 4,793 7,284 3,157 2,496 978 700 1,010 635 829 1,054 1,002 1,322 995 1,306 998 1,276 1,301 559 1,592 1,088 360 433 88 45 43 36(k) 177(k) 247 200 24 221 5,222 3,911 2,392 3,225 990 1,227 100 47 45 36 6 44 194 294 314 208 32 61 103 59 95 66 16 19

Sub-divisions of the industry (b)

TABLE 5 Sales of principal products of the industry by larger establishments, including sales by establishments classified to other industries, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

ndustry sub-		19	963	1968			
ivision (a)		Quantity	Value	Quantity	Value	Enter- prises	Entri
		Th.lb.	£,000	Th.lb.	£'000	Number	Numbe
02	Cadmium {	264	230 1,117	492	506 55	} *	*
02	Chromium metal		(b)	4,338	1,349	5	5
	Lead and lead alloys and wrought lead	Th.tons		Th.tons	100 mm (200 mm)	-	1)
01	Refined lead unwrought in pigs, ingots, blocks, bars, slabs and cakes	171	10,912	263	26,615	15	23
01	Antimonial and tin/lead alloys	Th.cwt.	927	Th.cwt.	1903, 619	# E- 270	
	unwrought (excluding type metal)	916 Th.tons	3,786	1,116 Th.tons	7,127	14	17
04	Sheet and foil	39.2	3,361	38.5	5,265	11	16
04	Pipes	13.0	1,171	10.2	1,422	8	13
04	Collapsible tubes		950	Th.cwt.	704	*	7
04	Lead shot		218		581	*	*
04	Other manufactures of lead not elsewhere specified	19,8	1,900		2,636	26	28
	Total lead and lead alloys and wrought lead		22,298		44,350		
03	Magnesium and magnesium alloys	Th.cwt.					
	Ingots, notch bars, sticks, slabs and billets		1,863	58.7	1,510	*	*
	Castings	28.8	2,400	18.6	1,662	6	7
	Sheets, strip extrusions and forgings	41.9	2,454	20.8	1,277	*	*
	Manufactures of magnesium and magnesium alloys not specified above	28.2	769	30.7	1,241	5	5
	Total magnesium and magnesium alloys and manufactures thereof	195	7,487	Gar (Si)	5,689	1.00	
02	Molybdenum metal		(b)	Th.lb.	447	*	*
	Nickel and nickel alloys (other than nickel silver and cupro-nickel)	Th.tons		Th.tons		1 1000	
02	Ingots, billets, anodes, cathodes, bars, rods, plates, sheets and strip	54.4	42,943	52.7	57,607	6	7
04	Castings	1.2	1,048	1.0	1,341	8	8
02	Other forms of nickel alloys	10000		10 10 1	100	161 100	6
04	unwrought or partly wrought Other manufactures of nickel not	2.3	1,428 2,348	0.6	2,045 933 1,861	6	11
	elsewhere specified				4	1	
	Total nickel and nickel alloys and manufactures thereof	on service services	47,766	LIA TOTAL PROPERTY OF THE	63,786		

TABLE 5 (continued)

Industry sub-	and to take a book to see the feet of the	19	963	1968				
division (a)		Quantity	Value	Quantity	Value	Enter- prises	Entries	
Lucian A	Tin and tin alloys	Th. tons	£'000	Th. tons	£'000	Number	Number	
01	Tin in blocks, ingots, bars and slabs	22.4	21,336	34.1	44,768	9	9	
01	Solder, soft	22.2	9,629	21.2	13,983	16	19	
04	Foil	0.1	111	44 July 19	39	*	*	
04	Collapsible tubes		397		295	*	5	
04	Other manufactures of tin and tin alloys not elsewhere specified (excluding anti-friction metal)	0.3	187 41	0.7	1,050	6	6	
	Total tin and tin alloys and manufactures thereof		31,702		60,136			
03	Titanium and titanium alloys	Th.cwt.		Th.cwt.				
	In primary forms (ingots) and forged products (billets and slabs)] ∫17.6	$\left\{ \begin{array}{c} 4,027 \\ 834 \end{array} \right\}$	34.6	3,917	7	7	
	Sheet, strip rods, plates and other forms]	834]	J. 70	6,601	6	9	
	Total titanium and titanium alloys and manufactures thereof		4,861		10,518			
02	Tungsten in all forms (except ferrotungsten)		2,189		3,065	9	9	
	Zinc and zinc alloys	Th.tons		Th.tons	D. Pertines			
01	Zinc unwrought, in ingots, blocks, bars, slabs and cakes	112	8,997	145	16,328	10	11	
04	Sheets, strip, plates, foil, discs and circles	10.8	1,631	11.0	2,513	5	6	
04	Zinc dust and powder	Th.cwt. 286	1,634	Th.cwt. 371	2,759	6	6	
01	Zinc alloy ingots (for die casting and forming)	1,152	5,611	1,148	8,658	8	9	
04	Zinc alloy pressure die castings except coffin furniture	486	11,390 2,017	398	10,317 1,401	} 49	54	
04	Other manufactures of zinc not elsewhere specified	Th.tons 3.4	599 398	Th.tons 15.3	929 1,179	} 18	22	
	Total zinc and zinc alloys and manufactures thereof		32,277		44,085			
	White metal alloys (ie alloys of tin, lead, zinc, antimony, etc, not elsewhere specified)				aunto d'Anna Eli La golf-	elati I (1857) (S		
02	Unwrought or partly wrought			ing vertice a				
	Anti-friction metal	2.5	1,430	2.4	1,966	8	10	
	Type metal	17.1	2,275	17.9	3,337	6	8	
	Other white metal alloys unwrought or partly wrought	1.7	711	8.6	2,226	6	6	
04	Wrought or manufactured	and character a	The state of the	may let the	tanti ligar ma	in the section of	200	
	Printing type and hard metal powders (including tungsten- carbide powder and matrix)	ales y politications	1,556	3001 103	1,940	6	6	
	Total white metal alloys and manufactures thereof	the state	5,972		9,468		9177 (8)	

Continued on next page.

TABLE 5 (continued)

Industry sub-	Carrier (1988) is the complete transfer of the carrier (1988)	19	963		196	88	10.23 10.71
division (a)	Marse Committee Value V	Quantity	Value	Quantity	Value	Enter- prises	Entries
02	Ferro alloys including ferro alloy briquettes	Th.cwt.	£,000	Th.cwt.	£,000	Number	Number
	Ferro-molybdenum	84.2	4,300	89.8	5,568	5	5
1981	Ferro-titanium	8.2	96	44.9	842	5	5
	Ferro-tungsten	12.6	380	13.0	1,388	5	5
4	Ferro-vanadium		823	14.2	909	6	6
	Other ferro alloys (except spiegeleisen and blast furnace ferro-manganese)	563	2,230 796	} 512	4,031	10	10
	Total ferro alloys including ferro alloy briquettes		8,624	0.1 maru 7 ma 2013	12,739		41.00
02	Non-ferrous metals not elsewhere	Th.tons		Th. tons			
	specified, unwrought and worked including castings and manganese metal (c)	02.025	3,366	8.7	7,389 804	36	39
04	Flexible tubing of non-ferrous metal {	0.2	250 641	}	425	*	*
04	Foil laminated with paper, film, etc (other than laminates incorporating aluminium foil)	0.2	241	0.2	281	*	*
	Other products		1,390		1,785	13	14
10	Waste products		in the state of	7-7 made 2 800		Threshold	
	Scrap metals						
	Copper	2.3	482		813	7	8
	Brass and other copper alloys				-1242-1007		
	(including nickel silver and cupro-nickel, but excluding all other nickel alloys)	0.1	16	inol people	235	13	14
10.0	Lead	1.3	152		50	9	9
. 4 3	Zinc	0.5	17	0.6	27	10	10
	Aluminium and aluminium alloys	h	1,530		32	10	10
	Other scrap metals	J	1,000		1,961	29	39
	Concentrates, metallic residues, wastes, etc, not elsewhere specified]	1,460		1,759	16	22
	Other waste products		3.0		336	9	11
	Work done				10.000		
	Repair work		64	1200	131	*	*
Same of Section Section 1	Other work done		384		763	21	23
	Total		174,516		272,984		
	Sales in other industries (see Table 6)	8.2	20,680	Lagranti (26,570	onnië haë ••	
	Principal products of this industry sold by establishments in the industry	6.2	153,836	88.7 80.14 183	246,415	80	100(d)

⁽a) The number given is that of the sub-division of which the item is a characteristic product. The sales shown are total sales by larger establishments, not merely sales by establishments classified to the sub-division.

TABLE 6 Sales of principal products of the industry by larger establishments classified to other industries, 1963 and 1968

	19	963	1968			
a advanta (1990 %) pro-	Quantity	Value	Quantity	Value	Entries	Principal industries in which produced (a)
	Th.tons	£'000	Th. tons	£,000	Number	Selve Logy A Charles South Commences
ead and lead alloys and wrought lead				0.30 5.00 5.00 0.00		one their officers
Refined lead unwrought in pigs, ingots, blocks, bars, slabs and cakes and antimonial and tin/lead alloys unwrought (excluding type metal)	11.1	777	5 . 3	723	7	27,48,72,80
Other manufactures of lead not elsewhere specified		962		1,453	27	47,48,93,147
Total lead and lead alloys and wrought lead	1013	1,739	1.000	2,176		AM STATE OF THE SAME
			Th.cwt.			Reg. 1 Sept.
agnesium and magnesium alloys in all orms and manufactures thereof		4,969	52.8	3,303	12	47,48
ickel and nickel alloys (other than ickel silver and cupro-nickel) in ll forms and manufactures thereof	1.1	2,226		1,066	16	27,47,48,97
in and tin alloys						
Solder, soft	0.1	40		19	*	48
Collapsible tubes		321		295	5	47
Tin in blocks, ingots, bars and slabs, tin foil and other manufactures of tin and tin alloys not elsewhere specified (excluding anti-friction metal)		177		163	7	47,48
Total tin and tin alloys and manufactures thereof		538		478		
itanium and titanium alloys in ll forms		2,157		6,094	11	29,44,47,48
inc and zinc alloys						
Zinc unwrought, in ingots, blocks, bars, slabs and cakes, and zinc alloy ingots (for die casting and forming)	9.1	957	Th.tons	385	7	47;48
Sheets, strip, plates, foil, discs and circles, and zinc dust and powder	14.1	1,731	10.7	1,617	7	27,35,47,48
Zinc alloy pressure die castings except coffin furniture	Th.cwt.	1,951 588	Th.cwt. 143	3,529 710	} 29	47,82,90,94
Other manufactures of zinc not elsewhere specified	Th.tons 3.0	459 259	}	1,703	14	44,47,48,93
Total zinc and zinc alloys and manufactures thereof		5,945		7,955		

Continued on next page.

⁽b) Not recorded separately for 1963.

⁽c) Excluding aluminium, copper and their alloys.

⁽d) This figure represents the total number of returns made for larger establishments in this industry which is less than the total number of establishments shown in Table 4 on account of combined returns covering more than one establishment.

49/13

Televisia de la companya de la comp	19	63	100 10 64 10		1968		
	Quantity	Value	Quantity	Value	Entries	Principal industries in which produced (a)	
The state of the s	Th. tons	£,000	Th.tons	£,000	Number		
White metal alloys (ie alloys of tin, lead, zinc, antimony, etc, not elsewhere specified) unwrought or partly wrought and wrought or manufactured	0.5	452	0.3	234	10	47,48,87	
Ferro alloys including ferro alloy briquettes	Th.cwt. 2.1	7	Th.cwt.	527	6	29,37,44,48	
Non-ferrous metals not elsewhere specified, unwrought and worked including castings		2,026		4,423	33	27,45,48,74	
Flexible tubing of non-ferrous metal and foil laminated with paper, film, etc (other than laminates incorporat-		690	Th.tons	315	*	47,52	
ing aluminium foil)		620	0.0	313		11,02	
Total	See 18	20,680		26,570			

⁽a) The references given are to the list of industries at the front of this report.

TABLE 7 Sales of other than principal products by larger establishments in the industry, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

	1963	1968
	Value	Value
General chemicals		16-16
Inorganic	5,401	7,143
0ther	840	381
Metal castings, forgings, etc and other basic forms of ferrous and non-ferrous metals		
Iron and steel	1,077	929
Aluminium		
Castings	1,242	1,092
Othe r	1,168	2,287
Copper	1,254	2,769
Brass and other copper alloys	2,296	3,100
Mechanical and electrical engineering products	597	160
Miscellaneous metal goods	793	505
Other products	5,785	13,088
Services rendered to other organisations (a)	95	425
Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored)	25,156	83,601
Canteen takings	289	255
Total	45,993	115,734

⁽a) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered to other organisations.

TABLE 8 Production of certain principal products of the industry by larger establishments, 1963 and 1968

This table is not applicable to this industry.

TABLE 9 Purchases by larger establishments of selected principal products of the industry, 1968 (a)

Standard Industrial Classi- fication	eller/per	Non-ferrous metals in all forms except finished parts, wire and scrap			
Minimum List	Purchasing industry (b) Minimum		Lead and alloys of lead (excluding solder)		
Heading	To make a pull bed to hen one equipted , and to	Quantity	Cost		
		Th.tons	£'000		
271/1	General chemicals (inorganic)	23.5	2,327		
271/3	General chemicals (other than inorganic and organic)	50.9	5,390		
311	Iron and steel (general)		(d)		
312	Steel tubes		(d)		
321	Aluminium and aluminium alloys		(c)		
322	Copper, brass and other copper alloys	5.6	599		
323	Miscellaneous base metals	180	24,324		
341	Industrial (including process) plant and steelwork		(c)		
349	General mechanical engineering		(c)		
362	Insulated wires and cables		(e)		
364	Radio and electronic components		(c)		
368	Electric appliances primarily for domestic use		(c)		
369	Miscellaneous electrical goods	76.8	8,700		
381	Motor vehicle manufacturing		(d)		
394	Wire and wire manufactures		(d)		
399/2 to 4 and 8 to 12	Miscellaneous metal goods		(c)		
494	Toys, games, children's carriages and sports equipment		(c)		
500	Construction	3.2	400 680		
	Other industries	92.0	9,927 521		
	Total	432	51,668 1,201		

⁽a) The figures include purchases of imported as well as of home produced goods.

Non-ferrous metals in all forms except finished parts, wire and scrap (continued)

Zinc and al	loys of zinc	Nickel and nickel alloys (excluding nickel silver and cupro-nickel)		Т	Tin .	
Quantity	Cost	Quantity	Cost	Quantity	Cost	
Th.tons	£'000	Th.tons	£,000	Th.cwt.	£,000	
	2,467		(c)	11.1	667	
Carlo	(c)	0.8	780		(c)	
27.7	3,259	21.7	15,085	175	11,324	
9.3	1,049		(d)		(d)	
	(e)		(c)	5.4	352	
59.9	7,059	2.6	2,627		(e)	
97.3	11,490	14.8	13,190	232	14,304	
4.3	493		(d)		(c)	
ter, M	(c)	all our fee	(d)	17.3	1,268	
	(e)		(c)	7.3	505	
	(c)	14.0	1,790	region de la Si	(c)	
330	(c)	17.5	1,549	Tronnon Assista	(c)	
24.0	3,074	5002	(c)		(c)	
17.6	3,066		(d)	etan togranit	(d)	
202	(e) {	3.2	1,957 389	8.2	517	
26.1	3,797 454	1.7	1,422 222	} 6.4	449	
16.1	2,214		(d)	da tu sama gig	(d)	
}	(d)	Latin Francis	(d)	out and translat	(d)	
54.2	8,057 817	2.2	2,169 360	44.8	2,947 173	
336	43,558 3,737	78.4	40,569 970	508	32,333 173	

⁽b) Specified census industries for which purchases are one per cent. or more of the total of at least one of the commodities shown.

⁽c) Included in the total for 'Other industries'.

⁽d) Not recorded separately.

⁽e) Owing to the risk of disclosure relating to individual firms particulars cannot be given and the figures are included in the total for 'Other industries'.

TABLE 10 Purchases by larger establishments in the industry, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

	1963		1968	
	Quantity	Cost	Quantity	Cost
Materials for use in production	Th.tons	£'000	Th.tons	£,000
Aluminium and aluminium alloys	N. Cong. P. Con		16376Q Lo. 5	
Ingots and notch bars - virgin	2.7	485 442	6.1	1,375
Ingots, notch bars and sticks - secondary	0.2	30	1.2	223
All other descriptions, including sheets, plate and strip, bars, rods and angles, but excluding finished parts, wire and scrap		72		663
Brass and other copper alloys (including nickel silver and cupro-nickel, but excluding all other nickel alloys and cadmium copper) (a)			9 (6)	
Ingots, blocks, slabs, billets, bars (including wire bars), rods and cast strip (b)	0.2	49	0.2	115
Plates, sheets, strip, discs, circles, foil, tube shells and other descriptions excluding finished parts, wire and scrap	0.2	51	(e) A 920, 1	165
Chrome ore and concentrates (c)		196	1.1	336
Cobalt ore and concentrates		(d)	0.9	1,213
Columbite	0.1	28	1.9	963
Copper unwrought (including cadmium copper); ingots, blocks, slabs, bars, billets, cakes, cathodes and anodes (including rough copper of 94 per cent. copper content or over) (e)			(a)	
Electrolytic and blister (including rough copper)	0.2	45	190.	494
Fire refined	1.1	265	0.9	461
Other descriptions of copper, including copper rods and plates and broken down copper cake and tube shells, but excluding finished parts, wire and scrap	9.1	256	880,8	246
Lead ore and concentrates	33.3	1,417	79.4	5,657
Lead and lead alloys			la la	
Lead unwrought in pigs, ingots, blocks, bars, slabs and cakes	-		8,214	1.000
Imported refined lead (f)	17.9	1,230	13.5	1,358
Re-melted lead	18.2	1,237	9.3	941
English refined lead including lead refined from imported bullion	16.9	1,082	30.9	3,206
Imported bullion			81.7	12,296
English bullion	67.7	6,804	11.8	1,205
Other descriptions except finished parts, wire and scrap		sed goods.	33.1	5,319
magnesium and magnesium alloys (excluding finished parts, wire and scrap)	2.7	651	3.2	773
Molybdenum ore and concentrates (g)	5.7	3,539	7.6	5,909
Nickel ore, concentrates and matte	60.5	21,904	56.8	29,649
Nickel and nickel alloys (excluding nickel silver and cupro-nickel), in all forms except finished parts, wire and scrap	15.2	10,030	14.8	13,190
Tin ore and concentrates		14,521	142	31,526
Tin in all forms except finished parts, wire and scrap	Th.cwt.	7,869	Th.cwt. 232	14,304
Tungsten	Th.tons	786	Th.tons	2,649

TABLE 10 (continued)

	1963		1968	
	Quantity	Cost	Quantity	Cost
Materials for use in production (continued)	Th.tons	£,000	Th.tons	£'000
Zinc ore and concentrates	203	4,047	314	9,027
Zinc and zinc alloys	1 2 1 3 1 1 1 1 1 1 1 1			
Zinc of not less than 99.99 per cent. purity	65.8	5,425	69.4	8,676
Other electrolytic and refined zinc, and low grade prime western, debased and G.O.B. zinc	8.2	734	16.4	1,980
Re-melted zinc and other descriptions except finished parts, wire and scrap		1,071	11.4	834
Alloying materials not elsewhere specified (eg silicon, cadmium chrome, manganese, cobalt)	19.9	3,346 1,193	33.8	3,496
Scrap (including all forms of scrap material purchased, not elsewhere specified)				
Aluminium and aluminium alloys	4.0	419	7.8	1,005
Brass and other copper alloys (including nickel silver and cupro-nickel, but excluding all other nickel alloys and cadmium copper) (a)	7.6	1,720	6.3	2,333
	1.6	332	2.9	1,392
Copper (including cadmium copper) (e)	127	6,852	179	15,462
Lead Nickel alloys (other than nickel silver and	121	0,002	110	10,102
cupro-nickel)	1.3	299	1.2	771
Tin	Th.cwt.	3,163	Th.cwt. 80.8	4,861
	Th.tons	will er t	Th. tons	
Zinc	5.5	325	11.7	665
Zinc base alloys	6.2	315	6.8	594
Other	58.7	5,235	99.6	13,470
Iron and steel in all forms except finished parts wire and scrap	67.8	825 356] 106	1,493
	Th.gal.	20	Th.gal.	50
Lubricating oils and greases	$\left\{ \begin{array}{c c} 129 \\ \cdots \end{array} \right.$	39 10	159	17
Replacement parts for firms' own machinery, plant and vehicles, and accessories and consumable tools bought as replacement				
Tyres and other spare parts for firms' own road goods	1			53
vehicles		1,922		
Other		10.000		3,278
All other materials for use in production		12,888		10,362
Packaging materials				
Wrapping and packing paper (including paper coated with plastics and any laminates incorporating paper but not metal)				66
Other packaging materials of paper and paperboard (including moulded pulp units and labels, but excluding boxes, cartons, packing cases, drums, canisters, bags and multiwall paper sacks and paper and board for	}	215		
converting into packaging materials)	1		١. ا	32
	Thousands		Thousands	
Metal barrels, kegs and drums	$\left\{ \begin{array}{c} 308 \\ \cdots \end{array} \right $	221 43	549	414
Containers wholly or mainly of wood (including plywood boxes and drums), baskets and wickerwork crates		114		169
All other packaging materials		271		248

Continued on next page.

TABLE 10 (continued)

	1963		1968	
	Quantity	Cost	Quantity	Cost
Fuel and electricity (h)	Th.tons	£,000	Th.tons	£,000
Coal	156	1,081	119	809
Coke (including screenings) and manufactured fuel	139	1,176	190	1,845
Derv fuel and motor spirit for use in road vehicles	Th.gal. 639	124	Th.gal. 709	177
Other liquid fuels (including creosote/pitch mixtures, etc, and liquefied petroleum gases)	17,166	791 114	32,041	1,533
Gas	Th.therms 8,986 Th.kWh	648	Th.therms 10,623 Th.kWh	811
Electricity	384,624	2,005	475,112	3,018
All other fuels		(d)	asia Gira	81
Total cost of materials and fuel		130,307	OF THESE SE	223,250
Goods purchased for merchanting		20,474	- Skin et 0.751	75,974
Canteen purchases		285	Markett Start	304
Total cost of purchases		151,066	adas i mala dis	299,528

- (a) For 1963 cadmium copper was not specifically excluded.
- (b) For 1963 rods were not specifically included.
- (c) For 1963 described as 'Chrome ore'.
- (d) Not recorded separately for 1963.
- (e) For 1963 cadmium copper was not specifically included.
- (f) For 1963 described as 'Imported virgin lead (excluding lead bullion)'.
- (g) For 1963 described as 'Molybdenite'.
- (h) Owing to the risk of disclosure of information relating to individual firms, total quantities of electricity generated in firms' own establishments in 1963 and 1968 cannot be given.

TABLE 11 Transport costs and employment of larger establishments, 1963 and 1968

	Unit	1963	1968
Average number mainly employed on transport	No.	340	367
Transport costs			
Wages and salaries	£,000	280	397
Derv fuel and motor spirit	"	124	177
Tyres and other spare parts for road goods vehicles			53
Payments to other by road	U	h 1	1,728
organisations for transport by rail and other means excluding postal services	"	1,573	553
Costs of operating road goods vehicles			
Insurance	" "	15	18
Vehicle licences	п	15	33
Depreciation	"	84	142
Payments to other organisations for repairs and maintenance	"	49	69
Total	п	2,139(a)	3,170

⁽a) Excluding tyres and other spare parts for road goods vehicles, not collected separately for 1963.

TABLE 12 Payments for certain services, etc by larger establishments, 1963 and 1968 (a)

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

	Amounts	Amounts payable	
	1963	1968	
Repairs and maintenance to	£'000	£'000	
Buildings	201	308	
Road goods vehicles	49	69	
Plant, machinery and other capital equipment	485	1,245	
Insurance, licensing and depreciation of road goods vehicles (b)	114	193	
Rates, excluding water rates	726	1,063	
Hire of plant and machinery	58	295	
Postage, telephone, telegrams, cables and telex (c)	267	343	
Total	1,899	3,516	

⁽a) No deduction is made for these payments to arrive at the figures of net output given in this report.

⁽b) For details see Table 11.

⁽c) Excluding telex for 1963.

TABLE 13 Percentage analysis of twelve-month periods covered by returns from larger establishments, 1968

Year ended	Percentage of total returns	Percentage
Tour blued	received	of total number employed
1968	Per cent.	Per cent.
April (a)	1.0	0.6
May	2.0	0.4
June	8.0	9.7
July	4.0	2.9
August	1.0	0.2
September	6.0	10.7
October 4	1.0	0.2
November	Andread - the second	-
December	55.0	59.9
1969		
January	4.0	1.5
February		
March	15.0	13.0
April (b)	3.0	0.9
	100	100

⁽a) From 6 April.

⁽b) To 5 April.



