This Report on the Aluminium and Aluminium Alloys Industry relates to establishments engaged wholly or mainly in manufacturing aluminium and its alloys in the form of ingots, bars, billets, sheets, strip, sections, pipes, tubes, castings, extrusions, drop forgings, etc, including all preliminary processes from smelting and refining onwards. The treatment of bauxite other than in aluminium works is excluded.

This industry corresponds to minimum list heading 321 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 except that pressings in sheet metal of aluminium and aluminium alloys were shown in the report on Miscellaneous Metal Manufactures (Part 74). The remainder of the industry is now the subject of two other Reports for 1968, Copper, Brass and Other Copper Alloys (Part 48) and Miscellaneous Base Metals (Part 49).

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 larger 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 combined sales of aluminium and aluminium alloy manufactures were less than one-tenth of their sales of such metals in unwrought or partly wrought form were classified as 'Smelters and refiners' and all other returns were classified as 'Fabricators' or 'Founders' according to their major output.

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).

ALUMINIUM AND ALUMINIUM ALLOYS 47/2

LIST OF TABLES

Table No.	Title	Page
n von mal station	SECTION I - Estimates for all establishments in the industry	
1	Industry summary, 1963 and 1968	47/3
2	Analysis by size of establishment within the industry, 1968	47/4
3	Percentage analysis of employees, by age and sex, 1969	47/5
	SECTION II - Analysis of returns received	
4	Analysis of larger establishments, 1963 and 1968	47/6
5	Sales of principal products of the industry by larger establishments, including sales by establishments classified to other industries, 1963 and 1968	47/8
6	Sales of principal products of the industry by larger establishments classified to other industries, 1963 and 1968	47/10
7	Sales of other than principal products by larger establishments in the industry, 1963 and 1968	47/11
8	Production of certain principal products of the industry by larger establishments, 1963 and 1968	DOES NOT APPLY
9	Purchases by larger establishments of selected principal products of the industry, 1968	47/12
10	Purchases by larger establishments in the industry, 1963 and 1968	47/13
11	Transport costs and employment of larger establishments, 1963 and 1968	47/15
12	Payments for certain services, etc by larger establishments, 1963 and 1968	47/16
13	Percentage analysis of twelve-month periods covered by returns from larger establishments, 1968	47/16

Footnotes continued from page 47/3.

- (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.

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

NonAlight Orthonis	
Number of enterprises	names and Graze Res Res
Number of establishments	
Gross output	
Net output	
Net output per head	
Sales and work done	<pre>goods produced and work done (c) merchanted goods and canteen taking</pre>
Purchases	<pre>materials for use in production and packaging and fuel goods for merchanting and canteen</pre>
	purchases
	for work done on materials given ou
Payments to other	for transport
organisations	by road
	by rail and other means excluding postal services
Stocks and work in progress	
Total stocks and work in	[change during year
progress	at end of year
	change during year
Goods on hand for sale	at end of year
	change during year
Work in progress	at end of year
	change during year
Materials, stores and fuel	at end of year
	(total, including working proprietor
Number employed on average	operatives
Number employed on average during the year	other employees (d)
Wages and salaries	of operatives of other employees (d)
	Corother amproyees (d)
Capital expenditure (e)	
Total	
New building work Land and existing buildings	(f)
Plant and machinery (f) Vehicles (f)	
venicies (1)	

(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.

Number of establishments Average number employed: Working proprietors Other persons employed

Footnotes continued on page 47/2.

ALUMINIUM AND ALUMINIUM ALLOYS

	Unit		All estab	lishments
CONTRACTOR OF	Unit		1963	1968
	No.		384	334
	n		452	411
	£`000		210,104	313,815
	п		77,565	103,972
	£		1,343	1,782
	000.7		202,892	299,242
	n		6,440	7,808
	n		122,245	200,093
	n		5,961	6,954
	n		1,641	2,627
	n	Ĵ	1,967 {	2,300
	н	J	, in the second s	388
	н		+ 48	+ 9,284
	"		37,172	61,448
	п		+ 377	+ 1,579
	II		6,965	12,520
	п		+ 396	+ 5,185
	H		12,055	25,996
	п		- 725	+ 2,519
	II		18,152	22,932
	Th.		57.7	58.3
	"		44.9	44.9
	п	1	12.4	13.1
	£*000		35,533	47,276
	n		11,645	16,647
	n		7,389	10,037
	н		1,325	1,192
	a		182	194
	н		5,600	8,108

1963 1968 219 265 325 225

2,564

282

2,179

543

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- men'ts	Enter- prises (b)	Total number employed on average during the year (a)	Gross output	Net output	Net output per head
276.003	Number	Number	Number	£'000	£'000	£
1-5	49	48	182	1. 10151. • • • • • • • • • • • • • • • • • • •		
6-10	55	55	418			
11-24	96	95	1,637	alterna best bes		
25-49	36	31	1,263	6,885	2,508	1,985
50-99	41	37	2,916	13,961	5,266	1,806
100-199	32	30	4,457	23,683	8,248	1,850
200-299	24	20	5,783	26,012	9,654	1,669
300-399	8	7	2,841	16,640	5,203	1,831
400-499	8	8	3,456	17,843	5,563	1,610
500-749	10	8	6,299	34,897	12,646	2,008
750-999	9	7	7,978	42,148	13,047	1,635
1,000-1,499	5	3	6,357	25,773	10,882	1,712
1,500 and over	7	6	14,123	90,770	25,884	1,833
nsatisfactory returns	31	29	632			
Total	411	334	58,342	313,815(c)	103,972(c)	1,782(c)

(ii) Employees, wages and salaries

All establishments: United Kingdom

Number employed on average during the	Emplo	oyees	Wages and	d 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					A TONO TO		
6-10				a service at lights	10610 10		
11-24						(1)	
25-49	1,010	232	1,013	311	1,003	1,341	
50-99	2,417	461	2,307	632	954	1,370	
100-199	3,600	851	3,539	1,110	983	1,304	
200-299	4,774	1,004	4,472	1,300	937	1,295	
300-399	2,303	538	2,275	746	988	1,388	
400-499	2,784	671	2,680	935	963	1,393	
500-749	4,706	1,593	4,728	1,767	1,005	1,109	
750-999	6,095	1,883	6,775	2,374	1,112	1,261	
1,000-1,499	5,067	1,290	5,352	1,492	1,056	1,157	
1,500 and over	10,109	4,015	12,005	5,201	1,188	1,295	
nsatisfactory returns	in the second						
Total	44,901(c)	13,142(c)	47,276(c)	16,647(c)	1,053(c)	1,267(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	Pe
---------	----

Ages	Males	Females	All employees
	Per cent.	Per cent.	Per cent.
Under 18	2	1	3
18 and over	80	17	97
All ages	82	18	100
California	So	urce: Department	t of Employment
		urce. Department	t of Emproyment

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.

- rendered).
- the industry.
- done.
- - production.

ercentage analysis of employees, by age and sex, 1969 (a)

All establishments: United Kingdom

(a) Some establishments employing fewer than 25 persons were included in returns for larger establishments. These amounted to 13 establishments in 1968 and 15 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) 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.

(d) 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

(e) Direct sales of goods (excluding canteen takings) made to, and work done for, the general public by larger establishments are included. These amounted to £25,000 in 1968. Similar information is not available for 1963. (f) Characteristic products relate only to sub-divisions of

(g) 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

(h) Administrative, technical and clerical employees. (i) Excluding expenditure for establishments not yet in

(j) 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)

			the ind	isions of istry (b)	S	ub-divisions of	the industry	(b)	m		
		Unit		nd refiners		icators 02		nders 03		otal	
			1963	1968	1963	1968	1963	1968	1963	1968	-
umber of enterprises (c)	and a state of the proved the Black	No.	8	8	35	38	90	90	125	125	- i hay antalanti
umber of establishments		п	13	11	63	62	115	120	191	193	
ross output		£'000	11,111	25,459	145,819	205,749	41,415	68,047	198,346	299,254	
let output		u	1,937	4,777	50,393	61,425	20,894	32,946	73,224	99,148	
let output per head		£	1,634	2,664	1,399	1,852	1,207	1,593	1,343	1,782	
	(goods produced and work done (d)(e)	£'000	10,441	1	140,984	196,016	40,112	h r	191,537	285,358	
ales and work done	merchanted goods and canteen takings	n	589	} 25,237	4,205	4,137	1,285	<pre>67,413 {</pre>	6,079	7,446	
ales of characteristic produ	acts	п	9,496	23,121	119,480	174,005	31,795	53,009	(f)	(f)	
ndex of specialisation (g)		Per	91	96	85	89	79	81	92	93	
luck of spectalisation (g)		cent.			02	The Lance			02		
urchases	materials for use in production and packaging, and fuel	£,000	8,590	20,645	88,402	138,862	18,411	$\left.\right\} 33,730 \left\{ \right.$	115,404	190,809	
	goods for merchanting and canteen purchases		588		3,851	4,202	1,188		5,627	6,631	
	for work done on materials given out	n	83	29	633	. 1,108	833	1,368	1,549	2,505	
	for transport				16.	05	2. S. 27		1,010	2,000	
yments to other ganisations	by road	п	1 . 1	224	1	1,595	h r	374) (2,193	
Guilletions	by rail and other means excluding postal services	n	128	53	1,499	272	230	45	} 1,857 {	370	
tocks and work in progress											
	∫ change during year	п	+ 84	+ 224	+ 296	+ 1,149	- 25	+ 133	+ 355	+ 1,506	
Goods on hand for sale	at end of year	н	530	1,160	5,433	9,794	612	985	6,575	11,940	
W 1 .	∫ change during year	ú	- 2	- 2	+ 334	+ 4,447	+ 42	+ 500	+ 374	+ 4,945	
Work in progress	{ at end of year	н	23	10	10,077	21,639	1,282	3,140	11,381	24,789	
Materials, stores	∫ change during year	п	+ 214	+ 269	- 1,041	+ 1,716	+ 143	+ 417	- 684	+ 2,402	
and fuel	at end of year	n	1,067	2,142	14,232	16,751	1,837	2,975	17,136	21,868	
	f total, including working proprietors	No.	1,185	1,793	36,022	33,159	17,310	20,683	54,517	55,635	
umber employed on verage during the year	operatives	п	937	1,382	27,192	24,568	14,517	17,032	42,646	42,982	
erage during the year	other employees (h)		245	406	8,818	8,578	2,747	3,596	11,810	12,580	
	∫ of operatives	£'000	723	1,364	22,103	26,929	10,895	16,963	33,721	45,256	
ages and salaries	{ of other employees (h) ·	н	227	572	8,296	10,741	2,529	4,621	11,052	15,935	
ages and salaries	∫ operatives	£	772	987	813	1,096	750	996	791	1,053	
er head	{ other employees (h)	н	927	1,409	941	1,252	920	1,285	936	1,267	
pital expenditure (i)							- tenigal wei	man Fullen			
New building work		£,000	30	19	1,069	510	153	607	1,251	1,137	
Land and existing	∫ acquisitions	"	+ 5(j)	15(j)	156]- 16(j) {	67	409	228	447	
buildings	\ disposals	п]	10(1)[]	24	J 10(J) {	32	223	56	262	
Plant and machinery	∫ acquisitions	н	73	359	4,226	5,584	1,246	2,183	5,545	8,126	
and much mory	[disposals	n	1	6	224	306	34	82	259	394	
Vehicles	∫ acquisitions	п	40	70	259	438	108	224	408	732	
	disposals	н	9	12	91	115	41	87	141	214	

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ALUMINIUM AND ALUMINIUM ALLOYS

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

Industry	TetraT	19	63	1968				
sub- division (a)		Quantity	Value	Quantity	Value	Enter- prises	Entries	
	Aluminium and aluminium alloys	Th.tons	£'000	Th.tons	£'000	Number	Number	
01	Virgin aluminium ingots and notch bars	14.0	2,595	21.1	4,799	8	11	
01	Virgin based aluminium alloy ingots, notch bars and sticks	10.2	1,875	25.3	5,567	6	7	
01	Secondary based aluminium and aluminium alloy ingots, notch bars and sticks	122	17,997	142	27,526	19	22	
02	Blocks, slabs and billets	27.7	5,378	33.7	7,787	6	13	
02	Wire bars	3.6	720	3.5	862	*	*	
02	Plates, sheet and strip (flat or in coil) exceeding 0.008 inch in thickness (b) Pure	44 - 64	63.0	er sert.		174.0	21000, S	
	Corrugated	5.6	1,469	2.5	830	*	*	
	Other	94.6	27,160	100	33,147	12	16	
	Alloy	2		1.0	040	*	*	
	Corrugated	54.0	21,083	1.6	646	12.5	14	
	Other Blanks, circles, discs and slugs]	L	72.8	30,874	10	14	
02	exceeding 0.008 inch in thickness (b)	anaph or	ic Pauli sig	- 0EX			1905.1	
	Pure	20.4	6,637		7,812	9	13	
	Alloy		761	4.5	2,088	7	10	
02	Foil (rolled material not exceeding 0.008 inch in thickness) (b)	21.8	12,001	29.1	17,371	11	13	
02	Angles, shapes and sections, rods and bars (other than notch bars and wire bars)			, 1286, 1			2.000000	
	Pure		4,826	25.1	6,941	11	16	
	Alloy	42.1	15,637	67.3	30,556	13	16	
02	Tubes	group planent	48.188年	in and the			1 status	
	Extruded	1.7	727	1.2	671	10	11	
	Pure	2.9	1,140	3.7	1,941	13	14	
	Alloy Drawn	2.9	1,140	0.1	1,041	10		
	Pure		1,932	0.8	540	8	9	
	Alloy	4.0	2,180	6.1	3,861	10	10	
	Welded from strip		(c)	1088	2,003	*	*	
02	Collapsible tubes of aluminium {	227,520	1,922 911.	}469,883	4,522	6	9	
	Castings, forgings, stampings and pressings not elsewhere specified		Ese .	723.	Alter			
03	Castings	Th.tons	E	Th.tons				
	Sand	10.4	6,515 1,253	12.6	9,815 2,930	} 129	138	
	Gravity die	48.4	17,974	58.6	27,091	69	76	
	Pressure die	22.9	11,017		$15,471 \\ 2,623$	} 57	63	
	Unclassified castings {	1.3	625 133	0.1	80 25 7	} 12	12	

TABLE 5 (continued)

Industry	and increases billing and	190	63	Sale Loris Course	196	8	
sub- division (a)		Quantity	Value	Quantity	Value	Enter- prises	Entries
	Aluminium and aluminium alloys (continued)	Th.tons	£,000	Th.tons	£,000	Number	Number
ewe ea ea do l (a)	Castings, forgings, stampings and pressings not elsewhere specified (continued)	W yt i tras					
02	Forgings and stampings	4.2	4,677		7,664	18	21
02	Pressings in sheet metal $\left\{ ight.$	2.6	$\substack{869\\1,689}$	0.5	$2,390 \\ 2,997$	} 127	129
02	Powder			autoridae him		an chiant	1 101 le
	Flake			3.1	854	*	*
	Granulated and other powder	} 2.2	579 {		781	5	5
02	Paste	2.8	685	2.7	701	*	*
	12 Several and and and a several s	Metal content Th.tons		Metal content Th.tons		nodi teril	bare (C
02	Foil laminated with paper, film, etc incorporating aluminium foil	8.0	9,236	10.9	11,690	14	16
		Th.tons		Th.tons		programs as	
02	Other manufactures of aluminium and aluminium alloys not else- where specified	4.2	$2,774 \\ 2,556$	5.3	5,779 2,888	} 48	54
	Other products		812		941	15	19
	Waste products	. Kiler and	011		to som the	pala ni an	21396919
	Scrap metals	. Judan					
	Aluminium and aluminium alloys	25.2	3,580	30.7	5,269	63	86
	Copper	1 8.8	ſ	tide. etc.	17	6	7
	Brass and other copper alloys						odel constr
	(including silver and cupro- nickel, but excluding all other nickel alloys)	Company Series		0.4	74	15	15
	Zinc		135	0.2	8	9	10
	Iron and steel	a serie and a state	100	3.1	17	16	20
	Other scrap metals	- and in a mail	1 200 2013	adr as	58	9	13
	Concentrates, metallic residues, wastes, etc, not elsewhere specified				389	23	27
	Other waste products		281		147	9	13
	Work done including repair work (d)		545		677	25	35
	Nork done including repair work (d)		040				
	Total		192,887		289,952		
	Sales in other industries (see Table 6)	am priph B3 and B	16,713		24,831	ry ho 1 	
	Principal products of this industry sold by establish- ments in the industry	op i a can Lo	176,174		265,121	125	165(€

(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.

(b) For 1963 described as 'exceeding 0.006 inch in thickness'.

(c) Not separately recorded for 1963.

(d) No repair work was recorded for 1963.

(e) 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.

ALUMINIUM AND ALUMINIUM ALLOYS

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

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

	196	33	Ser Bergard has		1968	
Aller - and aller - and and a later for both	Quantity	Value	Quantity	Value	Entries	Principal industries in which produced (a)
Aluminium and aluminium alloys	Th.tons	£'000	Th.ton8	£'000	Number	part of the
Virgin aluminium, virgin based and secondary based aluminium and aluminium alloy ingots, notch bars and sticks,	2.6	alie	1.875	ebeet : 85	al egota Vice	
including blocks, slabs and billets		1,867	18.1	3,730	9	48,49,72
Foil (rolled material not exceeding 0.008 inch in thickness)		29	0.6	361	5	77,97,141,149
Angles, shapes and sections, rods and bars (other than notch bars and wire bars)	3.7	1,099	12.5	3,717	5	48,72,91
Tubes, extruded, drawn, welded from strip and collapsible	* 1001 - 0.8	555	will red	1,241	6	45,48,49,72
Castings, sand, gravity and pressure die, including unclassified castings	•	3,479	1, 489 49,	4,826	107	48,49,71,82
Forgings and stampings	0.4	359	0.5	816	16	90,95,97
Pressings in sheet metal	2.5	858 1,426	0.5	379 2,557	} 124	92,93,96,9 7
	Metal content Th.tons		Metal content Th.tons	nimula 1	e la teo na au ca i	
Foil laminated with paper, film, etc, { incorporating aluminium foil	2.2	4,123 246	} 2.2	4,186	10	137,139
Other manufactures of aluminium and aluminium alloys not elsewhere specified		2,671		3,020	44	44,48,66,97
Total		16,713		24,831		013

(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 p Analysis of returns received, United

	1963	1968
an has build and a	Value	Value
The second s	£'000	£'000
Iron castings in the rough or machined	304	829
Wood, metal and plastic patterns	626	783
Manufactures of copper and brass	1,310	3,327
Manufactures of other base metals	spore, brann s	a surfice
Zinc alloy pressure die castings except coffin furniture	2,115	3,736
Other manufactures	7,648	6,574
Mechanical and other engineering products	683	780
Engineers' small tools and gauges	540	7 55
Aluminium wire	510	1,059
Miscellaneous metal manufactures	673	1,092
Other products	680	871
Services rendered to other organisations (a)	273	430
Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored)	5,427	6,772
Canteen takings	652	674
Total	21,442	27,683

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

This table is not applicable to this industry.

ALUMINIUM AND ALUMINIUM ALLOYS

be	rsons:
K	ingdom

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

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

Standard Industrial Classi- fication Minimum	ndustrial Classi- fication Purchasing industry (b)		Aluminium and aluminium alloys	
			Quantity	Cost
	and the second second second second second		Th.tons	£'000
321	Aluminium and aluminium alloys		545	123,291
322	Copper, brass and other copper alloys	nd l	11.7	3,016
339/9	Miscellaneous (non-electrical) machinery	{	19.4 	3,580 415
341	Industrial (including process) plant and steelwork		8.6	3,778
349	General mechanical engineering	{	8.7	3,433 1,810
354	Scientific and industrial instruments and systems	{	5.7	$2,193 \\ 1,128$
361	Electrical machinery		10.6	3,888
362	Insulated wires and cables		31.7	8,266
364	Radio and electronic components	{	6.0 	3,340 819
368	Electric appliances primarily for domestic use		21.9	7,403
369	Miscellaneous electrical goods	{	8.8	2,856 965
381	Motor vehicle manufacturing		114	40,074
383	Aerospace equipment manufacturing and repairing		16.0	11,618
394	Wire and wire manufactures			(c)
399/6	Metal hollow-ware		14.7	6,006
399/8	Miscellaneous metal goods	{	35.8	13,741 1,866
	Other industries	{	96.0 	34,651 7,779
	Total	{	954.5	271,134 14,781

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

(b) Specified Census industries for which purchases are one per cent. or more of the total.

(c) Owing to the risk of disclosure of information relating to individual firms separate figures cannot be given and 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

	19	63	1968	
and PARA in factority of the Para in factors of	Quant ity	Cost	Quantity	Cost
Materials for use in production	Th.tons	£'000	Th.tons	£'000
Bauxite and alumina	59.6	2,016	74.2	2,729
Aluminium and aluminium alloys	0010	2,010	and a hard and	2,120
Ingots and notch bars - virgin	172	31,446	182	41,030
Ingots, notch bars and sticks - secondary	71.2	10,616	99.3	18,233
Blocks, slabs, billets and wire bars	96.4	17,409	176	41,249
Sheets, plates, strip, blanks, discs, circles, slugs and foil	34.3	9,521	50.5	16,234
Bars (other than notch bars and wire bars), rods, angles, shapes, sections and tubes		471	13.5	3,014
All other descriptions except finished parts, wire	2.0	425 321	23.8	3,531
Brass and other copper alloys (including nickel silver and cupro-nickel, but excluding all other nickel alloys and cadmium copper) (a)	namber) ra	ore anyor		
Ingots, blocks, slabs, billets, bars (including wire bars), rods and cast strip (b)	0.3	52 30 7	} 2.4	1,154
Plates, sheets, strip (other than broken down strip), discs, circles and foil		49	0.8	363
Other descriptions including broken down strip and tube shells but excluding finished parts, wire and scrap	a sectore con esta esta esta esta esta esta esta esta	6	0.6	300
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) (c)	n fasch si	38	an shata ba balatan	592
Copper plates, sheets, strip, discs and circles (other than of high conductivity) and other descriptions of copper including broken down copper cake and tube shells, but excluding finished parts, wire and scrap		30	n Stiftwechun In Inderstand Validation (1999)	39
Lead and lead alloys	en pals Liet.oge		aby dama finale	
English refined lead including lead refined from imported bullion and re-melted lead	1.9	133	where provide	285
Other descriptions except finished parts, wire and scrap (d)	transporters and some some	20	China arreading a neptor • • Envil	24
Magnesium ore and magnesia, magnesium and magnesium alloys (excluding finished parts, wire and scrap)	4.2	1,227		1,411
Nickel and nickel alloys (excluding nickel silver and cupro-nickel), in all forms except finished parts,				
wire and scrap	a dannada a	86	0.1	135
	Th.cwt.	elst sales	Th.cwt.	110 111
Tin in all forms except finished parts, wire and scrap		46	5.4	352
Titanium		(e)	3.0	478
Zinc and zinc alloys	Th.tons 0.4	41	Th.tons	
Zinc of not less than 99.99 per cent. purity		41 356	} 4.7	607
Other electrolytic and refined zinc, and low grade prime western, debased and G.O.B. zinc	and al sea 	95	1.1	14.9
Other descriptions except finished parts, wire and scrap		(e)	7.9	960
Alloying materials not elsewhere specified (eg silicon, cadmium, chrome, manganese, cobalt)		2,479	17.8	3,480

ALUMINIUM AND ALUMINIUM ALLOYS 47/14

TABLE 10 (continued)

and the second	19	63	196	1968	
and the second	Quantity	Cost	Quantity	Cost	
aterials for use in production (continued)	Th.tons	£,000	Th.tons	£'000	
Scrap (including all forms of scrap material purchased, not elsewhere specified)			1 01 08 0 1 1		
Aluminium and aluminium alloys	120	12,537	151	21,063	
Brass and other copper alloys (including nickel silver and cupro-nickel, but excluding all other nickel alloys and cadmium copper) (a)			Special des bas	421	
Copper (including cadmium copper) (c)			2.0	883	
Magnesium and magnesium alloys		2,793	0.2	50	
Nickel alloys (other than nickel silver and cupro- nickel)	(···	2,195		24	
	and a second of	dom anoid	2.9	378	
Zinc base alloys	- Fridak esta	Address and	Margarete 2	156	
Other				the little	
Iron and steel in all forms except finished parts, wire and scrap	1.9	124 51	5.3	460 105	
	Th.gal.		Th.gal.		
and a second	1,385	293	1,436	475	
Lubricating oils and greases	Th.cwt.		Th.cwt.		
Lubricating on s and greaters	{ 2.8	25 61	6.8	50	
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 vehicles	1	2,583 {		148	
Other		2,000		4,660	
		9,613	and inte	11,578	
All other materials for use in production	Constant (edite	0,010	Contractor de	a to credit	
Packaging materials Wrapping and packing paper (including paper coated with plastics and any laminates incorporating paper but not metal)				266	
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 converting into packaging materials)	}	556 {		200	
		anka kesiti	Thousands		
Metal barrels, kegs and drums	and and	elezek.ess	9,0	55	
Containers wholly or mainly of wood (including plywood boxes and drumg), baskets and wickerwork crates	}	935	(1.13) (1.13)	891	
All other packaging materials		or more 61 offererik 70		1,015	
Fuel and electricity (f)	Th.tons	ant Internet	Th.tons		
Coal	42.6	290	11.1	85	
Coke (including screenings) and manufactured fuel	19.3	170	30.1	382	
	Th.gal.		Th.gal.		
Derv fuel and motor spirit for use in road vehicles	1,351	242	1,384	355	
Other liquid fuels (including creosote/pitch mixtures, etc, and liquefied petroleum gases)	44,416 Th.therms	1,901	58,357 Th.therms	2,801	
	10. therms 20,605	1,282	1	0.000	
Gas	20,000	1,202	} 32,639	2,093	

TABLE 10 (continued)

		1963		1968	
		Quantity	Cost	Quantity	Cost
uel and electricity (f) (continued)		Th.kWh	000'£	Th.kWh	£'000
Electricity	{	687,010	$3,604 \\ 1,004$	921,183	5,808
All other fuels	L		(e)		59
			115 101		100 000
Total cost of materials and fuel		and Heritalian	115,404		190,809 5,953
boods purchased for merchanting			5,020 607		678
anteen purchases			001		
Total cost of purchases			121,031		197,440
ABLE 11 Transport costs and employment of establishments, 1963 and 1968	f larger				
	persons:				
establishments, 1963 and 1968 Establishments employing 25 or more	persons:	1963	1968		
establishments, 1963 and 1968 Establishments employing 25 or more Analysis of returns received, United	persons: Kingdom	1963 534	<u>1968</u> 699		
establishments, 1963 and 1968 Establishments employing 25 or more Analysis of returns received, United verage number mainly employed on transport	persons: Kingdom Unit		(Kares)	-	
establishments, 1963 and 1968 Establishments employing 25 or more Analysis of returns received, United verage number mainly employed on transport	persons: Kingdom Unit		(Kares)		
establishments, 1963 and 1968 Establishments employing 25 or more Analysis of returns received, United verage number mainly employed on transport ransport costs Wages and salaries Derv fuel and motor spirit	persons: Kingdom Unit No.	534	699		
establishments, 1963 and 1968 Establishments employing 25 or more Analysis of returns received, United verage number mainly employed on transport ransport costs Wages and salaries	Unit K'000	534 51 7	699 841	-	
establishments, 1963 and 1968 Establishments employing 25 or more Analysis of returns received, United verage number mainly employed on transport ransport costs Wages and salaries Derv fuel and motor spirit Tyres and other spare parts for road goods vehicles	Unit No. £'000	534 517 242	699 841 355	-	
establishments, 1963 and 1968 Establishments employing 25 or more Analysis of returns received, United verage number mainly employed on transport ransport costs Wages and salaries Derv fuel and motor spirit Tyres and other spare parts for road goods vehicles Payments to other organisations	persons: Kingdom Unit No. £'000 "	534 517 242	699 841 355 148		
establishments, 1963 and 1968 Establishments employing 25 or more Analysis of returns received, United verage number mainly employed on transport ransport costs Wages and salaries Derv fuel and motor spirit Tyres and other spare parts for road goods vehicles Payments to other	persons: Kingdom Unit No. £'000 "	534 517 242 	699 841 355 148	-	
establishments, 1963 and 1968 Establishments employing 25 or more Analysis of returns received, United verage number mainly employed on transport ransport costs Wages and salaries Derv fuel and motor spirit Tyres and other spare parts for road goods vehicles Payments to other organisations for transport by road by rail and other means excluding	Unit No. £'000 "	534 517 242 } 1,857 {	699 841 355 148 2,193 370		
establishments, 1963 and 1968 Establishments employing 25 or more Analysis of returns received, United verage number mainly employed on transport ransport costs Wages and salaries Derv fuel and motor spirit Tyres and other spare parts for road goods vehicles Payments to other organisations for transport	Unit No. £'000 " "	534 517 242 $1,857$ 26	699 841 355 148 2,193 370 37		
establishments, 1963 and 1968 Establishments employing 25 or more Analysis of returns received, United werage number mainly employed on transport transport costs Wages and salaries Derv fuel and motor spirit Tyres and other spare parts for road goods vehicles Payments to other organisations for transport Costs of operating road goods vehicles	Unit No. L'000 " " " "	534 517 242 $1,857$ 26 24	699 841 355 148 2,193 370 37 75		
establishments, 1963 and 1968 Establishments employing 25 or more Analysis of returns received, United verage number mainly employed on transport ransport costs Wages and salaries Derv fuel and motor spirit Tyres and other spare parts for road goods vehicles Payments to other organisations for transport Costs of operating road goods vehicles Insurance Vehicle licences Depreciation	Unit No. £'000 " "	534 517 242 $1,857$ 26	699 841 355 148 2,193 370 37		
establishments, 1963 and 1968 Establishments employing 25 or more Analysis of returns received, United verage number mainly employed on transport ransport costs Wages and salaries Derv fuel and motor spirit Tyres and other spare parts for road goods vehicles Payments to other organisations for transport Costs of operating road goods vehicles Insurance Vehicle licences	Unit No. L'000 " " " "	534 517 242 $1,857$ 26 24	699 841 355 148 2,193 370 37 75		
establishments, 1963 and 1968 Establishments employing 25 or more Analysis of returns received, United werage number mainly employed on transport transport costs Wages and salaries Derv fuel and motor spirit Tyres and other spare parts for road goods vehicles Payments to other organisations for transport Costs of operating road goods vehicles Insurance Vehicle licences Depreciation Payments to other organisations for repairs	Unit Unit No. £'000 " " " "	534 517 242 $$ $1,857$ 26 24 176	699 841 355 148 2,193 370 37 37 75 293		

(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 payable	
	1963	1968
Repairs and maintenance to	£'000	000°£
Buildings	426	562
Road goods vehicles	85	223
Plant, machinery and other capital equipment	748	1,559
Insurance, licensing and depreciation of road goods vehicles (b)	225	405
Rates, excluding water rates	1,216	1,974
Hire of plant and machinery	153	321
Postage, telephone, telegrams, cables and telex (c)	352	635
Total	3,205	5,679

(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

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

Year ended	Percentage of total returns received	Percentage of total number employed
1968	Per cent.	Per cent.
April (a)	0.6	0.1
May	4.2	1.3
June	4.2	2.3
July	8.5	21.4
August	3.0	0.6
September	7.9	6.0
October	5.6	2.5
November	1.8	0.4
December	38.2	54.4
1969		and the second second
January	3.0	2.4
February	1.8	0.3
March	18.2	7.8
April (b)	3.0	0.5
	100	100

(a) From 6 April.

(b) To 5 April.