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BOARD OF TRADE

# Report on the Census of Production 1963



Iron castings, etc.



LONDON: HER MAJESTY'S STATIONERY OFFICE FOUR SHILLINGS NET

## on castings, etc

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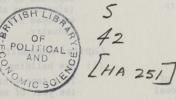
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## BOARD OF TRADE

# Report on the Census of Production 1963

39 Iron castings, etc.

Presented by the Board of Trade to Parliament in pursuance of the Statistics of Trade Act 1947 (10 & 11 Geo. 6 Cha. 39 Sec. 7)



otes - continued on pages ill and iv

LONDON: HER MAJESTY'S STATIONERY OFFICE

These notes give the main information needed for interpreting the figures in the industry reports. (More detailed information about the Census is given in a separate booklet - 'Introductory Notes': Part 1 of the Report on the Census of Production for 1963.)

## GENERAL INFORMATION

## Changes in the 1963 census

There were few changes resulting from amendments to the Standard Industrial Classification and only minor changes in the scope of certain industry reports compared with 1958. Any such changes are explained in the introductions to the industry reports concerned or by footnotes to the tables.

## Industrial Classification

Establishments were classified to industries on the basis of major activity in conformity with the second edition of the Standard Industrial Classification (Consolidated Edition 1963, incorporating Amendment 1). Each industry was basically defined in terms of its principal products, these being of a similar nature or commonly associated in production. Normally, an establishment was classified to an industry if its sales of the principal products of that industry accounted for a greater proportion of its total sales than did its sales of the principal products of any other industry. However, where the application of this rule would have resulted in a change of classification between 1958 and 1963, the establishment was reclassified only if the sales of principal products of the newly predominant industry was more than one third greater than the sales of principal products of the previously predominant industry. This modification of the general rule was introduced for 1958 to avoid discontinuities which would result from marginal changes in sales between successive censuses. The principle of classification by major output was also normally followed in compiling

the analysis by sub-divisions of an industry. In certain industries, classification was dealt with in a different way. Details of any non-standard treatment are given in the introductions to the relevant industry reports.

## TERMS USED IN THE CENSUS REPORT

## Average number employed

Firms were required to state the number of persons on the payroll (i.e. whose National Insurance cards were held by them) on the average during the year of return, whether fulltime or part-time employees. Separate figures were required for (a) administrative, technical and clerical employees and (b) operatives (see below). Averages could be calculated from figures relating to the last week of each calendar month; figures shown in respect of the average number employed relate to the sum of these averages. Firms were also required to state the number of working proprietors (see below) where appropriate and these are included in total employment figures. Outworkers are excluded.

The figures include persons engaged in merchanting or factoring and canteen workers where particulars in respect of these activities could not be excluded from the return.

### Working Proprietors

These include all persons regarded as 'selfemployed' for National Insurance purposes, and members of their families who worked in the business without receiving a fixed wage or salary; but persons who worked less than half the normal number of working hours are excluded. For Great Britain, directors working in the business but not in receipt of a definite wage, salary or commission are included under this heading for 1963, but are excluded for 1958. For Northern Ireland, directors of limited companies, other than those paid by fee only, are included for both years. (Directors paid by fee only are not included in any of the employment figures for either year.)

### Employees

- (i) Administrative, technical and clerical employees include managers, superintendents and works foremen; research, experimental, development, technical and design employees (other than operatives); draughtsmen and tracers; editorial staff, staff reporters, canvassers, competition and advertising staff; travellers; and office (including works office) employees. For Great Britain, but not for Northern Ireland, they include also managing and other directors in receipt of a definite wage, salary or commission.
- (ii) Operatives include all other classes of employees, that is, broadly speaking, all manual wage earners. They include those employed in and about the factory or works; operatives employed in power houses, transport work, stores, warehouses, shops and canteens; inspectors, viewers and similar workers; maintenance workers; and cleaners. Operatives engaged in outside work of erection, fitting, etc. are also included, but outworkers (i.e. persons employed by the firm who worked in their own homes, etc. on materials supplied by the firm) are excluded. Information about the numbers of outworkers employed was collected only for the gloves industry.

## Capital Expenditure

(i) New building work.

This represents the cost incurred during the year of new building and other new constructional work (including office buildings, canteens and the like used in connection with the business covered by the return but not dwelling houses for employees). The value is that charged to capital account during the year of return; it includes expenditure on new buildings or on the extension or reconstruction of old buildings, the value of work of a capital nature carried out by firms' own staff, and the cost of any newly constructed buildings purchased. The figures shown include any legal charges, stamp duties, agents' commissions, etc.

## 9 Iron castings, etc.

This Report on the Iron Castings, etc. Industry relates to establishments engaged wholly or mainly in manufacturing pig iron and iron castings. Blast furnaces forming part of integrated steel works are, however, not included, and for this reason establishments in this industry account for only a part of total production of pig iron.

This industry corresponds to minimum list heading 313 in the Standard Industrial Classification (Consolidated edition, 1963).

## METHOD OF CLASSIFICATION

The classification of returns to this industry followed the standard procedure as outlined in the notes on page (ii). A different procedure was used in classifying returns to the sub-divisions of the industry shown in Table 2. Returns were initially classified on the basis of major output to one of three.main categories, namely 'Unrefined pig iron', 'Refined pig iron' or 'Iron castings'. Within the category 'Unrefined pig iron' returns were allocated on a similar basis to either the 'Forge and foundry' sub-division or the 'Hematite and basic' sub-division. Returns classified to the 'Iron castings' category were allocated among the nine sub-headings shown in the table on the basis of information obtained from the short period production statistics collected by the Iron and Steel Board which, for this industry, contain more product detail than the census. Since a product breakdown of sales of iron castings was not collected in the census, the total value of 'characteristic products' shown in Table 2 for the iron castings section of the industry relates to sales of iron castings of all kinds, not only those appropriate to the sub-division.

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

(a) For IBSS, estimates for small firms and for firms nor analog satisfiestory returns adjointed about 7 per cent. of the total figures is which they wars incomparated. (For 1958 the comparable figure was 6 per (2014) A summery of the detailed returns received is given in Yable 3.

One including services resident to state organizations (seconds charged for binding out plant, machingrow and other space. for providing transport, or for exchanged or other excessor senders

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(A) Including pengingan and excluding haid other than from panying funts

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## TABLE 1 Industry summary: United Kingdom

## Estimates for all firms, 1958 and 1963 (a)

THE PERSON OF THE PERSON PERSON	arvin-and min-spreatured of the indextry (b)	Unit	1958	1963
Number of enterprises	tenti	No.	1,006	1,058
Number of establishments			1,120	1,196
Gross output		000'3	261,285	308,250
Net output			108,693	143,208
Net output per head		3	975	1,272
249 11 32,159 23, 232	( goods produced and work done	000'3	251,093	294,407(b)
Sales and work done	merchanted goods and canteen takings		7,033	13,454
1986 1 1-20,528 121,200 C	<pre>materials for processing and packaging, and fuel</pre>		] 137,535	142,180
Purchases	goods for merchanting and canteen purchases			12,249
Payments to other	for work done on materials given out		1,703	2,316
organisations	for transport	-	10,645	7,492
Stocks and work in progress	s files files	aph alas	ADDER T	1
Total stocks and work in	∫ change during year	-	+ 450	- 417
progress	at end of year		37,680	39,841
	∫ change during year	and along	+ 3,517	- 558
Goods on hand for sale	at end of year	1.000 - 100	15,409	14,824
	∫ change during year		- 358	+ 947
Work in progress	at end of year		5,792	7,392
All	∫ change during year		- 2,709	- 806
Materials, stores and fu	at end of year		16,479	17,625
	( total, including working proprietors	Th.	111.5	112.6
Average number employed	operatives		95.0	95.2
25. s 2.669 2.469	other employees (c)		16.3	16.4
	f of operatives	000'3	58,730	75,563
Wages and salaries	of other employees (c)	-	12,070	15,030
Employers' contributions t pension schemes, etc. (d)	o National Insurance and private	e vol dag	0 101	4,803
Capital expenditure (e)		a any 28	to sel	
Total		1.00		12,112
New building work		and a lange	2,630	4,277
Land and existing buildi	ngs (f)	e lo i tall	section.	- 254
Plant and machinery (f)		a avita	10,939	7,429
Vehicles (f)			524	660

 (a) For 1963, estimates for small firms and for firms not making satisfactory returns accounted for about 7 per cent. of the total figures in which they were incorporated. (For 1958 the comparable figure was 6 per cent.) A summary of the detailed returns received is given in Table 2.

(b) Including services rendered to other organisations (amounts charged for hiring out plant, machinery and other goods, for providing transport, or for technical or other services rendered).

(c) Administrative, technical and clerical employees.

- (d) Including pensions and gratuities paid other than from pension funds.
- (e) Excluding expenditure for establishments not yet in production.

(f) Acquisitions less disposals.

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14	Sales of all parts of machinery and plant by larger firms, including sales by establishments classified to other industries, 1958 and 1963	DOES NOT APPLY

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TABLE 2 Analysis of larger firms by sub-divisions within the industry, 1958 and 1963 Firms employing 25 or more persons: United Kingdom (a)

			Sub-c	livisions of	the indust	ry (b)
			and the second second	Unrefine	d pig iron	
		Unit	Forge an	d foundry	Hematite	and basic
		Laine and	1958(c)	1963	1958	1963
Number of enterpris	ses (d)	No.	7	3	11	4
Number of establish	nments		7	3	11	6
Gross output		£'000	17,508	12,949	32,158	21,022
Net output		-	3,945	3,149	5,655	4,133
Net output per head	Annual parameter is and a second provide and a second	2	1,700	2,362	1,216	1,402
	f goods produced and work done	£'000	16,688	12,808(e)	30,628	21,302(e)
Sales and work done	merchanted goods and canteen takings	und an north	7	16	-	62
Sales of characteri	stic products	н	13,012	11,405	27,630	17,697
Index of specialisa		Per cent.	78	89	90	83
	materials for processing and		1 -	NAME OF COL	1	
Purchases	packaging, and fuel	£'000	12,385	9,125	22,738	15,974
	goods for merchanting and canteen purchases	п		ni shi	acts apply	62
Payments to other	for work done on materials given out	н	-	-	1 I.I.	_
organisations	for transport	н	1,201	471	2,620	652
tocks and work in	progress	COLUMN TON			0/18	
Goods on hand	change during year	н	+ 815	+ 126	+ 1,542	- 352
for sale	at end of year	н	2,314	1,248	2,944	1,957
	change during year	н	- 1	- 1	- 12	+ 11
Work in progress	at end of year	н	11	7	46	23
	Cohange during year	н	+ 23	- 205	- 1,144	- 202
Materials, stores and fuel	at end of year		657	485	2,069	2,146
	<pre>( total, including working proprietors</pre>	No.	2,321	1,333	4,649	2,948
verage number	operatives		2,026			
mployed	other employees (i)	ingen Capana	redia 10	1,124	4,048	2,526
	WINVER I	-	295	209	601	422
ages and salaries	of operatives	£'000	1,326	983	2,670	1,845
	(of other employees (i)	"	214	228	459	377
ages and salaries	{ operatives	£	655	875	660	731
er head	(other employees (i)	H	726	1,093	764	894
mployers' contribut	tions to National Insurance (j)	£'000		42	galizier b	85
tc. (k)	tions to private pension schemes,	Ħ		33	nd machine	52
apital expenditure New building work	(1)				359	9
Ŭ	facquisitions				and the second second	9
Land and existing buildings	disposals			- 1(m)<	1 ALGS. 100	- 2(m)
Plant and	racquisitions	H	53	ا 120 ل	1,311	307
machinery	disposals	(14) (14) (14) (14) (14) (14) (14) (14)	4	8	1,511	2
	racquisitions	(no "Ino)	waits fame to	and the design of the second	1 to Troledad	1. 6 33
Vehicles	e than (tow pension foods.	Gio blac	4 maising	3	60	79
	disposals	a stran	etideren e	1 out 1 base	3	2

alaran di Alar	STREET, ST	To EMILAT	Theory and and a second							
	(benet mean	an trassing	Sub-di	visions of	the industr	y (b)			•3.0000.00	
		Thus and	Com Toget	and the states		astings	and the second			
Refined	pig iron	Pressure fitt		Other pi fitt		Stoves, gr	ates, etc.	Cisterns, baths and other sanitary goods		
1958	1963	1958	1963	1958	1963	1958	1963	1958	1963	
6	3	21	15	19	14	23	20	11	9	
6	4	32	25	25	19	32	26	14	13	
3,970	3,586	37,165	38,385	11,734	9,581	10,987	17,377	5,809	11,836	
729	790	13,447	15,148	5,927	4,664	5,899	9,075	2,917	7,081	
1,028	1,834	986	1,239	950	1,081	885	1,315	1,109	2,079	
3,956		35,461	37,612(e)	10,547	7,551(e)	10,611	15,787(e)	5,678	10,967(e)	
-	3,628(e)	1,146	990	1,041	1,975	554	1,438	55	1,038	
3,674	3,422	25,936(f)	29,257(f)	9,500(f)	6,701(f)	10,455(f)	14,092(f)	4,795(f)	10,127(f)	
93	94	73	78	90	89	99	89	84	92	
2,882	2,632	20,414	20,319	<b>5,327</b>	2,737	} 4,347	6,371	]2,729 {	3,539	
	a site	a l	919		1,838		1,299		967	
-	-	47		71	85	349	329	35	29	
202	173	2,815	}2,045 {	363	236	346	375	140	171	
+ 21	- 41	+ 593	- 238	+ 137	+ 47	- 97	+ 83	+ 92	- 145	
68	107	4,292	3,835	1,019	725	553	680	205	571	
- 7	-	- 35	+ 22	+ 9	+ 7	- 81	+ 69	- 16	- 24	
10	-12	748	335	306	207	446	792	139	146	
- 158	+ 9	- 443	+ 46	- 46	- 22	- 45	+ 74	+ 12	- 50	
192	163	3,462	3,786	739	268	723	939	306	449	
709	431	13,644	12,225	6,241	4,314	6,669	6,899	2,631	3,405	
558	351	11,334	9,927	5,174	3,660	5,289	5,426	2,261	2,803	
151	77	2,310	2,298	1,063	643	1,380	1,467	370	601	
350	310	6,953	7,360	2,935	2,467	2,827	3,777	1,401	2,377	
101	88	1,686	1,968	639	535	831	1,096	302	450	
627	884	613	741	567	674	535	696	620	848	
670	1,143	730	856	601	832	602	747	815 '	748	
	16	••	366	odo".s	132		212		113	
•••	9		277		23		55		41	
2.	- (A	351	167	42		17	106	41	37	
••	-		] 1(m)		5	••	anolo-ecop		Sec. 1764.1	
••		••			-		41		5	
57	} 124(m)	2,783	<pre>694(m) </pre>	136	96	110	282	113	} 180(m)	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		13	[] 034(m)]	•	6	2	36	*	[] 100(m)	
3	] 11(m)	45	33	31	35	54	110	53	] 103(m)	
2		18	4	6	11	17	34	14	J	

Continued on next page

Total

1963

1958

TABLE 2 (continued)

				Sub-di	visions of	the indust	try (b)
			E frail air	Ir	on casting	s (continue	ed )
			Unit		ulds and steel and us metals	Marine	castings
			8293.	1958	1963	1958	1963
umber of enterpris	es (d)	M	No.	19	14	20	9
umber of establish				19	15	20	9
ross output			£'000	15,093	16,181	2,665	1,752
et output			n	4,859	6,224	1,559	989
et output per head			£	1,223	1,713	780	906
	f goods produced and work d	one	£'000	15,188	15,631(e)	2,650	1
les and work done			n	8	37	21	1,713(e)
les of characteri		chames of		14,451(f)	14,919(f)		1,565(f)
ndex of specialisa			Per	95	95	97	91
	fmaterials for processing	and	cent.	1 1		1	
urchases	packaging, and fuel	1 2,727	£'000	9,629	9,633	,1,011	724
	goods for merchanting and purchases	canteen			33		80
and the second second	(for work done on materials	given out		18	14	13	1
yments to other ganisations	for transport	81.01 011		326	315	30	25
ocks and work in				010	010		-
Goods on hand	Change during year			- 10	- 7	+ 8	+ 4
for sale	at end of year			308	238	60	13
	change during year		n	- 93	+ 520	- 14	+ 34
Work in progress	at end of year		н	454	1,339	25	62
	(change during year			- 261	+ 38	- 52	- 13
Materials, stores and fuel	at end of year		п	1,576	1,648	258	136
	(total, including working p	roprietors	No.	3,973	3,634	1,999	1,092
erage number	operatives	1		3,297	2,896	1.753	956
ployed	other employees (i)		н	675	731	246	132
	f of operatives		£'000	2,117	2.322	1.028	706
ges and salaries	of other employees (i)			525	670	188	128
	(operatives		£	642	802	587	739
ges and salaries r head	other employees (i)		n	778	917	764	969
ployers' contribut	tions to National Insurance	(j)	£'000		109		37
	tions to private pension sc				79		8
pital expenditure	(1)						
New building work			<b></b>	369	48	47	65
Land and existing	f acquisitions				5		-
buildings	disposals		H		8		-
Plant and	acquisitions		68 <b>8</b>	1,062	233	112	48
machinery	disposals		н	3	3	-	-
Vahialaa	acquisitions		n an	34	20	9	1
Vehicles	disposals			6	7	2	1(m)

27	24	301	245	96	100	534	429
40	45	321	265	111	114	638	544
30,541	66,760	51,768	53,917	26,456	31,942	245,854	285,289
15,439	32,998	28,109	30,421	13,789	17,869	102,273	132,540
1,016	1,329	861	1,090	966	1,176	975	1,272
30,114	62,916(e)	50,934	52,305(e)	23,809	30,329(e)	236,264	272,477(e)
246	3,931	950	1,527	2,589	1,367	6,618	12,452
28,723(f)	59,640(f)	45,891(f)	47,581(f)	(g)	(g)	(g)	(g)
95	95	90	91			94	94
14,470	29,103	21,785	20,226	} 11,695	11,282	129,413	131,589
ι	3,508		1,406		1,227		11,337
136	178	715	986	217	476	1,603	2,143
508	909	758	829	708	779	10,017	6,934
+ 88	- 145	+ 26	+ 29	+ 92	+ 123	+ 3,309	- 517
479	1,055	1,093	1,108	1,164	2,182	14,499	13,720
+ 93	+ 58	- 145	+ 56	- 34	+ 124	- 337	+ 877
531	1,355	1,203	1,478	1,531	1,096	5,450	6,841
+ 13	- 63	- 402	- 48	- 47	- 309	- 2,549	- 746
1,799	2,398	2,405	1,944	1,322	1,951	15,506	16,312
15,191	24,832	32,641	27,905	14,278	15,191	104,946	104,209
13,492	22,109	28,482	24,234	11,832	12,675	89,546	88,687
1,699	2,716	4,145	3,555	2,434	2,437	15,369	15,288
9,384	21,577	17,664	17,949	6,703	8,738	55,359	70,412
1,428	2,979	3,245	3,346	1,759	2,141	11,377	14,005
696	976	620	741	567	689	618	794
841	1,097	783	941	723	879	740	916
	754	81 	862		451		3, 181
14	296	••• 712	266	1990	156	indiana	1,295
351	2,776	478	464	407	258	2,475	3,958
•• 81	2		72	ming.	21		113
••	and the second		274 .		11		348
1,876	3,075	1,475	1,275	1,329	756	10,418	7,336
16	67	59	119	14	74	124	460
58	73	191	171	148	161	692	867
16	20	69	61	47	49	198	256

Sub-divisions of the industry (b) Iron castings (continued)

> Other engineering castings including railway castings

1958(c)

1963

Motor cycle industry castings

1958

1963

Unclassified castings and other products

1958

1963

For notes to this table - see page 39/9

TABLE 3 Analysis of larger firms by size of enterprise within the industry, 1963

## (i) Output, employment, capital expenditure and stocks

## Firms employing 25 or more persons: United Kingdom

Average number employed by the enterprise in the industry (a)	Enter- prises	Estab- lish- ments	Average number employed (a)	Gross output	Net output	Net output per head	Capital expendi- ture (b)	Total value of stocks and work in progress at end of year
	Number	Number	Number	000°£	£,000	E	£'000	000'3
25-49	139	142	5,120	9,037	5,260	1,027	358	731
50-99	123	129	8,742	15,677	8,885	1,016	628	1,247
100-199	72	81	9,905	20,990	11,239	1,135	282	1,726
200-299	34	46	8,555	20,304	11,089	1,296	639	1,906
300-399	20	28	6,672	15,517	7,660	1,148	872	1,922
400-499	8	10	3,518	8,844	3,301	938	129	2,756
500-749	8	13	5,111	15,671	6,960	1,362	354	1,778
750-999	8	21	7,117	17,789	8,543	1,200	278	1,581
1,000-1,499	7	18	7,615	28,879	9,626	1,264	806	5,902
1,500-2,499	3	11	6,563	17,589	8,968	1,366	322	3,454
2,500-3,999	3	10	8,980	20,516	11,216	1,249	1,743	1,851
4,000 and over	4	35	26,311	94,476	39,793	1,512	4,798	12,020
Total	429	544	104,209	285,289	132,540	1,272	11,210	36,873

(ii) Employees, wages and salaries, and employers' contributions

Firms employing 25 or more persons: United Kingdom

Average number	Empl	oyees	Wages and	Wages and salaries		yers' outions	Wages and per	d salaries head
employed by the enterprise in the industry (a)	Oper- atives	Others (c)	Oper- atives	Others (c)	National Insurance (d)	Private pension schemes, etc. (e)	Oper- atives	Others (c)
	Number	Number	£'000	000'3	000'3	£'000	3	3
25-49	4,398	612	3,090	592	162	35	703	967
50-99	7,581	1,082	5,368	1,045	279	65	708	966
100-199	8,648	1,232	6,330	1,247	304	90	732	1,012
200-299	7,279	1,266	5,221	1,107	257	98	717	874
300-399	5,655	1,013	4,073	916	196	89	720	905
400-499	3,010	508	2,093	470	101	29	695	926
500-749	4,350	761	3,482	699	149	51	801	918
750-999	6,073	1,040	4,872	870	222	36	802	837
1,000-1,499	6,293	1,322	4,499	1,170	216	112	715	885
1,500-2,499	5,280	1,283	3,791	1,083	215	98	718	844
2,500-3,999	7,908	1,070	7,061	1,032	282	117	893	964
4,000 and over	22,212	4,099	20,534	3,775	797	474	924	921
Total	88,687	15,288	70,412	14,005	3,181	1,295	794	916

(a) Including working proprietors.

(b) Acquisitions less disposals.

(c) Administrative, technical and clerical employees.

(d) Including both flat rate and graduated contributions.

(e) Including pensions and gratuities paid other than from pension funds. These amounted in total to £143,000.

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TABLE 4Percentage analysis of employees, by age and<br/>sex, all firms, 1963: United Kingdom (a)

	and the second secon Second second	Ages		ales	Females	All employees
	-	Ballene .	Pei	cent.	Per cent.	Per cent.
		Under 18	annop	4	1	5
		18 and over	2.02	85	10	95
		All ages	30979	89	11	100
	jers Willen					
					Source: Mini	stry of Labour
					1.238	
					the numbers emp id-june, 1963.	oloyed (excluding
		working p	roprie	tors) at m	iiu-June, 1903.	
	({ 2.733	190 1700 190	N.C.	boo. Fail	latea so égios a latea de latea	is ni ugalitano nin
	A.A.	Footnotes to 1	Table 2			· Other second ·
		ing fewer an estimat returns, w	than 2 te for which a	5 persons small fir ccount fo	relates to smal ) in this indust ms not making sa r 2 per cent. of per cent. for 1	the employment
					1958	1963
		Avera		ber employ		630 777
					yed $\left. \right\}$ 6,147 returns to sub-	6,169 divisions of the

(c) Revised figures.

(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 and other goods, for providing transport, or for technical or other services rendered).

(f) Sales of castings for all types, not only those characteristic of the narrower sub-division.

(g) Characteristic products relate only to specific subdivisions 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. Where appropriate, the denominator includes the value of merchanted goods and canteen takings. 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) Including both flat rate and graduated contributions.

(k) Including pensions and gratuities paid other than from pension funds.

- Excluding expenditure for establishments not yet in production.
- (m) Acquisitions less disposals.

## TABLE 5Sales of principal products of the industry by larger firms, including<br/>sales by establishments classified to other industries, 1958 and 1963

Firms employing 25 or more persons: United Kingdom

	1	958	ladala yanaqaadan ahaa	1963	1963		
	Quantity	Value	Quantity	Value	Enter- prises	Entries	
and the second sec	Th.tons	£'000	Th.tons	£,000	Number	Number	
Pig iron including direct iron castings							
Forge and foundry	1,106	26,241(a)	833	19,065	10	12	
Hematite	946	25,454	529	13,125	6	7	
Basic	2,080	43,248	2,340	47,458	14	20	
Refined	164	4,651	160	4,017	9	11	
Wood and metal patterns		2,714		4,636	277	312	
Iron castings in the rough or machined	2,739	179,714(a)	{{2,733	205,064 23,370	604	717	
Other products			l	1,361	49	55	
Waste and by-products	29.570	1	5.70			5.907	
Scrap metals	T. CRA	8.988	1.20		-	3.454	
Iron and steel	39.6	371 {	51.4	434	112	123	
Other scrap metals	59.0	3/1 {	4.9	67	39	42	
Blast furnace slag		560 {	718	309	11	12	
Other waste products	} 1,354	500 {	9.5	63	24	26	
Work done on commission, sub-contract work, etc.		529	eente Bout I Gegelee	114	10	11	
Total		283,482	They be yet it.	319,083			
Sales in other industries (see Table 6) Principal products of this		61,335		62,825		040••# (6)	
industry sold by establish- ments in the industry	a son fuiter a star fort	222,147	2000	256,259	429	496(1	

## (a) Revised figures.

(b) This figure represents the total number of returns made by larger firms in this industry, which is less than the total number of establishments in Table 2 on account of combined returns covering more than one establishment.

## TABLE 6Sales of principal products of the industry by establishments classified<br/>to other industries, 1958 and 1963

Firms employing 25 or more persons: United Kingdom

				19	58	all and the second		1963	
				Quantity	Value	Quantity	Value	Entries	Principal industries
				Quantity	Varue	Quantity	Turuc		in which produced (a)
598.E	0.12 {	988.1 022	R_ 	Th.tons	£'000	Th.tons	£,000	Number	
Pig iron i castings	ncluding di	rect iron.				ergod fa o		na poloi	
Forge an	d foundry				Í	50.1	1,289		37, 52, 74
Hematite				{1,538	31,849) 10,345	241	6,041	10000	37, 40
Basic Refined				l]	ML 199	1,709	34,526	16	37, 40
Iron casti machined	ngs in the	rough or	{	229	14,354 3,717	188	14,468 5,234	} 251	(b)
Wood and m	etal patter	ns			1,070		1,267	94	(b)
Т	otal				61,335		62,825		

(a) The references given are to the list of industries at the back of this report.(b) Production is widely distributed.

a) faine of more done, exclusive of the value of gonds used by firms and recorded as their dutput. The value of these goods was £18,000 in 1962 and £41,000 in 1962. b) securis theiged for hiring out plant, machinery or other goods. for providing transport, or for technical or other parvices readered to other organizations.

## TABLE 7Sales of other than principal products by larger firms in the<br/>industry, 1958 and 1963

Firms employing 25 or more persons: United Kingdom

1016	1958		1963	
ing income in the interest of	Quantity	Value	Quantity	Value
to the sect of the section of the section of the	Th.tons	000'3	Th.tons	000'3
Steel castings and forgings, including manufactures of {	16.9	1,688	} 21.9	3,397
Castings of aluminium and aluminium alloys	1.4	707 132	0.9	457 141
Castings of brass, machined	0.3	262	1.3	675
Rough castings of brass {	4.2	1,858 14	} 2.2	1,042
Manufactures of copper and brass and other copper alloys		38		43
Other manufactures of non-ferrous metals		68		59
Machine tools and parts		242	1	Mint Apents
Engineers' small tools		42	Jeres Late	131
Internal combustion reciprocating engines and parts		67	-	-
Contractors' plant and parts, including mechanical hand- ling and mining machinery and parts		370	1510 	564
Iron and steel rolls for metal rolling mills and for other machinery (sugar, flour, rubber, etc. mills)	8.1	910	1.8	153
fachinery and parts unclassified		1,128		266
Iron or steel fabricated		290		463
Other and unclassified engineering products		501		972
Other goods		3,130		5,478
Work done				
Structural work carried out in the United Kingdom (a)			BRIDES .	
Work done as main contractors		160		140
Work done as sub-contractors		109	10.0 , 255	140
Other work including general and jobbing engineering	Survey and Survey	1,881	and the second second	1,673
ervices rendered to other organisations (b)				425
otal value of goods sold without having been subjected or any manufacturing process (merchanted or factored)		6,240	•••	11,901
anteen takings		377		551
Total		20,735(c)		28,670

(a) Value of work done, exclusive of the value of goods used by firms and recorded as their output. The value of these goods was £18,000 in 1958 and £41,000 in 1963.

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

(c) Excluding amounts charged for services rendered to other organisations.

# TABLE 8Production of certain principal products of the industry by larger<br/>firms, including production by establishments classified to other<br/>industries, 1958 and 1963

		This table is	s not applic	able to this i	ndustry.			
Tisber (a] cases, at	TABLE 9	Purchases o firms, 1963	f selected	principal pr		the indus	try by larg	ger
		This table is	s not appli	cable to this i				
		of the repor	t on Iron a	ustries of iron nd Steel (Gener ue purchased by	ral)(Part 3	7) togethe	r with the d	etails

rat includes was wellerin (including tage of all allering

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IRON CASTINGS, ETC. 39/15

## 39/14 IRON CASTINGS, ETC.

# TABLE 10Purchases by larger firms in the industry, 1954 and 1963Firms employing 25 or more persons:United Kingdom

	195	54	19	63
THE SECTION PROPERTY.	Quantity	Cost	Quantity	Cost
	Th.tons	£'000	Th.tons	000'3
terials for processing				
Iron ore and manganese ore	6,124	12,992	2,947	10,839
Iron	3.4		6.0	
Pig iron, including refined pig iron, and other irons for re-melting	1,688	27,051	1,076	25,480
Castings	8.9	433 52	} 48.5	2,276
Steel				
Bars and rods (including wire rods), angles, shapes	19129158 0		1 8 1910H	
and sections, girders, beams, joists and pillars rolled (not fabricated), including tube rounds and	Stand St.			
squares	8.8	343	10.8	591
Plates, 3 mm. thick and over (a)	6.5	249 37	} 4.7	242
Sheets under 3 mm. thick (including electrical sheets)	5.0	239	4.2	297
Iron and steel not elsewhere specified except finished	6.2	354	12.6	474
parts, wire and scrap (b)	0.2	165		67
Iron and steel scrap	1,459	10,330	2,152	23,078
Lime, limestone and dolomite (c)	762	653	600	784
Cinder and scale	156	430	156	445
Pyrites residue		(d)	1,026	576
Other ores, concentrates and residues	}	(")[		606
Spiegeleisen and blast furnace ferro-manganese {	2.4	125 26	} 3.4	166
Other ferro-alloys	12.6	901	42.1	2,699
Light metals and non-ferrous metals in all forms except finished parts, wire and scrap (b)				160
Aluminium and aluminium alloys (e)	5.5	569	2.2	326
Brass and other copper alloys (including nickel silver and cupro-nickel, but excluding all other nickel alloys)	8.4	1,338	3.5	854
	751	914 {	1,238	1,891
Moulding sand	751	914 ]	••	58
Heavy chemicals (acids, alkalis, alcohols, other inorganic and organic chemicals, compressed gases, etc.)			Mn.cu.ft.	
Oxygen		{	52	48 50
Other heavy chemicals	gierry, i	n provide a		629
the second of the part of the second of the second of the	}	(d)	Th.cwt.	
Phenolic and cresylic resins, solutions, emulsions, dispersions, moulding and extrusion compounds		{	310	659 195
Other bonding materials		1,072		4,360
Moulding boxes		348	••	487
Refractories		852		1,010
Grinding wheels		328		661

## TABLE 10 (continued)

and a second second	1954		1963	
	Quantity	Cost	Quantity	Cost
		£'000	Th.gal.	£'000
aterials for processing (continued)	tap(aset)	the spinsternes	and the second	
THE STATE	Yes seat	1	562	131
Lubricating oils and greases		(d)	Th.cwt.	
and see and see the	1.0	l	5.4	3(
Replacement parts for firms' own machinery, plant and vehicles, and accessories and consumable tools bought		and the second	and the second second	
as replacement	••	3,944		6,09
All other materials for processing		13,193	1 30223	12,95
ackaging materials			Th.cu.ft.	
Timber (sawn or planed) for manufacture into packing		4	83.2	4
cases, etc.	H     H	(d) <b>(</b>		5
Jute and hessian piece goods, sacks and bags	)	L	••	13
All other packaging materials	equipadd as	657	madeso post a	30
uel and electricity (f)	Th.tons		Th.tons	ana nas
Coal	448	1,560	207	1,13
Coke (including screenings) and manufactured fuel	3,825	21,885	2,293	21,98
	Th.gal.		Th.gal.	
Derv fuel and motor spirit for use in road vehicles	1,906	380	3,005	43
Other liquid fuels (including creosote/pitch mixtures, etc., and liquefied petroleum gases)	10,765	478 {	25,483	1,18 25
Gas	Th.therms		Th.therms	
Blast furnace gas	]	(	1,442	3
Coke oven gas	28,741	684 174	12,231	52
Other (including town gas)	lt	11-1	20,161	1,13
other (including town gas)	]			11
	Th.kWh		Th.kWh	
Electricity	357,095	1,759	1,020,745	5,12
Total cost of materials and fuel		104,516	and a state of	131,58
Goods purchased for merchanting				10,83
Canteen purchases	alger as a		and the states of	50
Total cost of purchases	The Party of the state	CHO TRONG R	a constant	142.9

(a) Includes hoop and strip (including tape) of all thicknesses in 1954.

(b) 'Wire' was not specifically excluded in 1954.

(c) Described only as 'Limestone' in 1954.

(d) Not recorded separately for 1954.

(e) 'Aluminium alloys' were not specifically included in 1954.

(f) The total quantity of electricity generated in firms' own establishments in this industry was 365,422 Th.kWh in 1954 and 103,488 Th.kWh in 1963.

(a) to deductive to make for these perments to arrive at the figures, of the astron private in this request.

	Unit	1963
verage number employed mainly on transport	No.	917
fransport costs		
Wages and salaries	000'3	716
Derv fuel and motor spirit		438
Payments to other organisations for transport		6,934
Costs of operating road goods vehicles		3.3 2.6
Insurance		60
Vehicle licences	a ana ana ana ana ana ana ana ana ana a	53
Depreciation	-aged	335
Payments to other organisations for repairs and maintenance		160
Total		8,695

## TABLE 12 Payments for certain services, etc. by larger firms, 1963 (a)

Firms employing 25 or more persons: United Kingdom

	Amounts payable
epairs and maintenance to	000°£
Buildings	510
Road goods vehicles	160
Plant, machinery, and other capital equipment	1,834
nsurance, licensing and depreciation of road goods whicles (b)	447
tes, excluding water rates	2,038
re of plant and machinery	169
ostage, telephone, telegrams and cables	549
Total	5,708

(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.

## Firms employing 25 or more persons: United Kingdom

ine of any annot relating busin wahit for any fr	Year ended	Percentage of total number employed	Year ended	Percentage of total number employed
	1963	Per cent.	1963 (contd.)	Per cent.
te 'she walter of	April (a)	7.0	November	0.3
	May	0.3	December	38.5
	June	7.3		
	July	7.3	1964	
	August	3.0	January	0.7
	September	20.0	February	0.4
	October	0.3	March	14.9
		and and a particular of a part	Total	100

(a) Including returns made for twelve-month periods ended 1st to 5th April, 1964.

TABLE 14Sales of all parts of machinery and plant<br/>by larger firms, including sales by estab-<br/>lishments classified to other industries, 1958 and 1963

## This table is not applicable to this industry.

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## A CARLE AND A CARLES A CARLES AND A CARLES

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## and a second second

 (a) Including services made for issive-month parton's mades (a) to bth appli, 1988.

## TABER SE Provinces for contain account and be burgers finds, 1982 (a)

al No Deductions is made for these payments to arrive at the Ligures

the first description and Table to

## Notes - continued from page ii

## Capital Expenditure (continued) (ii) Land and existing buildings.

The items shown are the capital cost of freeholds purchased and the capital cost or premium payable for leaseholds acquired (excluding the value of any assets acquired in taking over an existing business), and the amounts receivable for any freeholds or leaseholds disposed of. The value is that charged to capital account during the year of return.

## (iii) Plant, machinery and vehicles.

The items shown are the value of plant and machinery and of vehicles acquired, both new and second-hand, and the amount received for items disposed of during the year. The value of plant and machinery acquired includes plant, etc. which firms produced for their own use in connection with the business covered by the return. The value of plant, etc. acquired is the expenditure charged to capital account during the year of return less any discounts received, but including the cost of transport and installation. No deduction is made for depreciation, amortisation or obsolescence. The proceeds of items disposed of during the year exclude amounts written off for items scrapped.

Capital expenditure during the year in respect of manufacturing establishments where production had not started before the end of the year is excluded in this report for both 1958 and 1963.

## Characteristic Products

The characteristic products of a sub-division are those in terms of which the sub-division is defined. They are products commonly associated in production and are usually similar in nature or manner of production. In most cases the characteristic products of each subdivision are indicated in Table 5 of the industry reports. For those industries for which an analysis by sub-divisions has been made, Table 2 shows the total sales of such characteristic products for each sub-division. The totals include, besides the products which define the sub-division, other items of output assumed to be closely related to them, e.g. waste products and work done.

## Enterprise

The term enterprise is used in this report to mean one or more firms under common ownership or control. An enterprise normally consists either of a single firm, or of a parent company together with its subsidiary companies.

## Entries

The number of entries shown in Tables 5, 6 and 8 against a particular output or production heading is the number of returns on which figures were recorded for that item.

## Establishment

The census was based on the establishment, comprising in most cases the whole of the premises under the same ownership or management at a particular address (e.g. a factory or mine); but firms were asked to exclude from all sections of their returns particulars relating to any department not engaged in production for which they kept a separate set of accounts. Where separate accounts were not kept, they were asked to include merchanting or factoring, canteens operated by them and other ancillary activities such as bottling, packing and the manufacture of containers for packing their own products, whether or not these activities are carried on at the same address as the works. Building and engineering maintenance departments and selling and transport departments were treated similarly.

## Gross Output

The gross output of an industry is the aggregate value of goods made and other work done during the year by the establishments classified to the industry. It is derived by subtracting from the value of sales and work done, the value of stocks of goods on hand for sale and work in progress at the beginning of the year and adding the value at the end of the year.

## Larger Firms

These are firms in which twenty-five or more persons were employed on the average during the year.

## Net Output

The net output of an industry represents the value added to materials by the process of production. It includes the gross margin on any merchanted or factored goods sold; it constitutes the fund from which wages, salaries, insurance, pensions, hire of plant and machinery, payments for repairs and maintenance, costs of operating road vehicles, rents, rates and taxes, advertising and other selling expenses and all other similar charges have to be met, as well as depreciation and profits. There is no appreciable duplication in net output. Net output has been obtained by deducting from the gross output the cost of purchases adjusted for stock changes, payments for work given out to other firms, and payments for transport.

Normally any customs or excise duty on materials purchased is included in the cost of materials. Similarly, finished goods sold have been valued as they were sold, duty paid or duty free. The amounts of duty, subsidies, allowances and levies receivable or payable, where of substantial importance in the industry, were required to be stated separately, and these items were taken into account when calculating net output.

## Net output per person employed

The figures for net output per person employed are derived by dividing the net output by the average number of persons employed (full-time and part-time) on all activities covered by the returns, including operatives, administrative, technical and clerical employees and working proprietors, but excluding outworkers.

## Principal Products

The principal products of an industry are those in terms of which the industry is defined. They are products commonly associated in production, and are usually similar in nature or manner of production.

## Production

This means the total quantity of a product made during the year, whether sold in the year, added to stock, transferred to another department of the same firm, or used in the manufacture of other products within the business covered by the return. It includes goods produced from materials supplied by other firms.

## Purchases

Purchases include the cost of materials and components bought for use in production; of fuel and electricity for all purposes; of packaging materials, including the full cost of returnable cases and containers when first purchased; of workshop materials, office materials and materials for repairs to firms' own buildings, plant and vehicles when carried out by their own workpeople included in the return; of consumable tools; and of parts for machinery purchased during the year as replacements. Water charges are also included. In general purchases of goods for merchanting or factoring and canteen supplies are included. Materials supplied by customers for processing are excluded.

The values shown include any duty paid (less rebate, etc.) but exclude trade discounts allowed. The cost of transport is included only if included in the cost of materials as invoiced; amounts paid to transport organisations, including firms' own separate transport organisations, for delivery of materials and fuel are, therefore, excluded. Materials purchased overseas are included at their c.i.f. cost plus any duty payable if the cost of transport from the docks was not included in the invoiced price, but at their full delivered cost if invoiced 'carriage paid home'. Materials and fuel transferred from another department of the firm not covered by the same return are included at the estimated selling value recorded by the other department.

### Sales

Sales are in respect of goods made by the business covered by the return, goods made for it by outworkers or by other firms from materials given out to them (sometimes described as goods made on commission) and waste products. Any machinery or other capital items produced for use in the business covered by the return are included, the value being that adopted in the firm's capital asset account. Goods sold without being subjected to any manufacturing process (merchanted or factored) and canteen takings are included as in 1958.

The value shown for sales is the net selling value, defined as the amount charged to customers whether on an ex-works or delivered basis, net of any trade discounts, agents' commissions, allowances for returnable cases, purchase tax, etc.; the net amount charged for packing materials is included. Goods charged on a delivered basis to customers overseas are included at the f.o.b. value. For work done on commission or for the trade the value shown is the net amount charged.

Where goods produced in one department were transferred to another department of the same firm not covered by the return, these transfers were treated as sales by the producing department and valued as far as possible as if they had been sold to an independent purchaser. Goods transferred to wholesale or retail selling organisations for which separate accounts were kept were valued on the same basis. Estimations of a similar kind were also sometimes necessary in valuing transfers between different firms belonging to the same enterprise. To the extent that the sales of finished products of one establishment may constitute the materials purchased by another, total figures of the value of sales (and of materials and fuel purchased) include an element of duplication.

## Services rendered

This represents the amounts charged for hiring out plant, machinery and other goods, providing transport, or for any technical or other

services rendered to other organisations. It includes amounts credited for similar services rendered to other departments of the same firm not covered by the return.

### Small Firms

These are firms in which fewer than twenty-five persons were employed on the average during the year.

## Stocks and Work in Progress

Values are given of stocks of goods on hand for sale, and of materials and fuel, at the beginning and end of the year of return, including any stocks of goods held for merchanting or factoring. The values include duty in the case of dutiable goods held out of bond. The value of work in progress at the two dates is also usually shown. This excludes any progress payments made to sub-contractors, and no deduction is made on account of progress payments received.

## Transport Payments

These represent the total amount paid or credited during the year for both outwards transport of finished goods sold and inwards transport of materials and fuel purchased. They include payments to other firms, and to any separate transport organisation of the same firm, not covered by the return, but exclude the value of transport services provided by the business covered by the return. The items included are payments for hired cartage and for inwards and outwards carriage by all forms of inland transport, i.e. railways, road haulage, canals, coast-wise shipping, air, etc. Payments made for sea freight on goods sold to customers overseas and on materials and fuel purchased from overseas suppliers are excluded.

### Wages and Salaries

These are the amounts paid during the year to operatives and to administrative, technical and clerical employees. Payments to working proprietors, whether called salaries or not, are excluded; in Northern Ireland this exclusion extends also to payments to directors of limited companies. The values shown include all overtime payments, bonuses and commissions, whether paid regularly or not, and no deduction is made for income tax, insurances, contributory pensions, etc. The value of any payments in kind, travelling expenses, lodging allowances, etc. and employers' contributions to National Insurance and pension schemes is excluded.

### Work given out

The figures shown represent the total amount paid for work done by other firms on materials supplied to them, and also by firms' own establishments for which separate returns were made. They do not include payments to individual outworkers or payments for business and other services.

## Symbols used

The following symbols are used throughout the report:

- .. Not available Nil or negligible (less than half the -
- final digit shown) Figures cannot be shown owing to the \*
- risk of disclosing information about individual enterprises.

## Rounding of Figures

The figures in the tables have, where necessary, been rounded to the nearest final digit. There may, therefore, be apparent slight discrepancies between the sums of the constituent items and the totals shown.

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64 Aircraft Manufacturing and Repairing 65 Locomotives and Railway Track Equipment 66 Railway Carriages and Wagons and Trams

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