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BOARD OF TRADE

THE REPORT ON THE CENSUS OF PRODUCTION FOR 1958

Part 38
IRON AND STEEL (GENERAL)

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

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NOTES

These notes give only the main information which is needed for interpreting the census figures. Fuller explanations are given in a separate booklet of Introductory Notes (Part 1 of the Report on the Census of Production for 1958).

CHANGES IN THE 1958 CENSUS

Some changes were introduced in the 1958 census, which affect the comparability between 1954 and 1958 figures.

Returns in full detail were required only from firms employing 25 or more persons, instead of, as previously, from firms employing 11 or more persons.

The coverage of firms' returns for 1958 was in many cases rather wider than for 1954. In both years 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 offices, warehouses, laboratories, etc. at addresses separate from the works were treated as part of the establishment. For 1958, but not for 1954, firms were asked to include also, in all sections of their returns, particulars relating to 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 were carried on at the same address as the works, unless

TERMS USED IN THE CENSUS REPORTS

CAPITAL EXPENDITURE

The expenditure on new building work shown excludes the cost of land and existing buildings purchased; for plant, machinery and vehicles both new and second-hand items are included. The value is that charged to capital account during the year, including any transport and installation cost involved. Capital expenditure in respect of establishments in Great Britain where production had not started before the end of the year is included in Table 1.

CHARACTERISTIC PRODUCTS (See the description of the method of classification before List of Tables)

EMPLOYMENT

(i) Working proprietors

These include all persons regarded as 'self-employed' for National Insurance purposes, and members of their families who worked in the business without receiving fixed wages or salaries; but persons working less than half the normal hours are excluded.

(ii) Employees

Employees are classified under the two main headings of (a) administrative, technical and clerical employees and (b) operatives. The figures relate to persons on the pay-roll (i.e. whose National Insurance cards were held by employers), whether full-time or part-time employees. The figures for 1958 include, but those for 1954 exclude, persons engaged in merchanting or factoring, and canteen workers.

Administrative, technical and clerical employees include managers, superintendents, and works foremen; research, experimental, development, technical and design employees (other than operatives); draughtsmen and tracers; travellers; and office (including works office) employees.

Operatives include all other classes of employees, 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 and, for 1958, 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 on materials

they were conducted by a separate company, or by a separate department with a separate set of accounts; building and engineering maintenance departments were treated similarly. Selling and transport departments were treated in this way both for 1954 and 1958. While the effect of including these further ancillary activities was generally to produce higher figures for employment etc., the reporting of separate figures for merchant goods led to the exclusion of some firms who proved to be merchants with only minor productive activities.

Changes made for 1958 in the instructions governing the making of returns for two or more establishments operated by the same firm permitted combined returns to be made more freely than in previous censuses. Combined returns were accepted covering establishments in the same census industry, and situated in the same country (i.e. England, Scotland or Wales).

The 1954 figures have been re-tabulated to correspond as closely as possible to those for 1958, but because of the changes described above the correspondence is not always exact.

supplied by the firm in their own homes, etc.) are excluded.

(iii) Total employment

This is the sum of the average number of employees and the number of working proprietors; outworkers are excluded.

ENTERPRISE

The term enterprise is used in this report to mean one or more firms under common ownership or control as defined in the Companies Act, 1948. An enterprise normally consists either of a single firm, or of a holding company together with its subsidiary companies.

ENTRIES

The number of entries shown in Tables 4, 5 and 7 is the number of returns on which figures against a particular output or production heading were recorded. The number of entries is less than the corresponding number of establishments to the extent that combined returns were made covering more than one of the establishments concerned.

ESTABLISHMENT

In most cases an establishment comprises the whole of the premises under the same ownership or management at a particular address (e.g. a factory or mine). Offices, warehouses, laboratories and other ancillary places of business at a separate address from the works were treated as part of the establishment.

INTERMEDIATE PRODUCTS

For some industries figures are given showing the total quantities made during the year of important intermediate products, i.e. products which may be further processed in the establishments in which they are produced, whether or not they are also sometimes sold. They include also goods produced from materials supplied by other firms.

MATERIALS AND FUEL

The totals shown include the cost of all purchases of materials and components for use in production, and of fuel (including oil, gas and electricity) for all purposes including heating, lighting and transport (where carried out by firms' own staff included in the return); all packing

materials, including the full cost of returnable cases and containers when first purchased; workshop materials; office materials; water charges; materials for repairs to firms' own buildings, plant and vehicles when carried out by their own work-people included in the return; consumable tools; and parts for machinery purchased during the year as replacements. Purchases of goods for merchandising or factoring, and canteen supplies, are included for 1958 but not for 1954. Materials supplied by customers for processing are excluded for both years.

The values shown include any duty paid (less rebate, etc.) but exclude trade discounts allowed. The cost of transport was 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 were entered at their c.i.f. cost plus any duty if the cost of transport from the docks was not included in the invoiced price, and at their full delivered cost if invoiced 'carriage paid home'.

NET OUTPUT

The net output of an industry represents the value added to materials by the process of production and includes for 1958 the gross margin on any merchanted or factored goods sold; it constitutes the fund from which wages, salaries, rents, rates and taxes, advertising and other selling expenses, and all other similar charges have to be met, as well as depreciation and profits. There is no appreciable duplication in net output.

Net output was normally obtained by taking the total value of sales and work done (including, for 1958, the value of merchanted goods sold and canteen takings); adding the value of stocks at the end of the year and deducting their value at the beginning of the year; and deducting also the cost of materials and fuel purchased (including, for 1958, the value of goods purchased for merchandising and canteen supplies), payments for work given out to other firms, and payments for transport. The net amount of duty paid was deducted, and the net amount of subsidy received added.

NET OUTPUT PER PERSON EMPLOYED

The figures for net output per person employed are derived by dividing net output by total employment (see above).

PRINCIPAL PRODUCTS (See the description of the method of classification before List of Tables)

SALES

Sales include goods made by the business covered by the return, those 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 sold. Any machinery or other capital items produced for use in the business covered by the return are also included, the value being that adopted in the firm's capital account for income tax purposes. Goods sold without being subjected to any manufacturing process (merchanted or factored) and canteen takings are included for 1958 but not for 1954; where the total sales of merchanted or factored goods were less than £5,000, firms were permitted to include them with the figures for sales of goods of their own production.

The value shown for sales is the net selling

SYMBOLS USED

The following symbols are used throughout the reports:

- .. for not available
- for nil or negligible (less than half the final digit shown)

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. With a few exceptions, receipts for business and other services are not included.

To the extent that the finished products of one establishment constitute the materials purchased by another, total figures of the value of sales (and of materials and fuel purchased) include an element of duplication.

STOCKS AND WORK IN PROGRESS

The values shown are the income tax values of stocks of products on hand for sale, and of materials and fuel, at the beginning and end of the year of return. For 1958, but not for 1954, they include any stocks of goods held for merchandising or factoring. The value of work in progress at the two dates is also usually shown. This excludes any progress payments made to subcontractors, 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, that is 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. 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. is excluded.

Figures are also shown for average salaries etc. paid per head for the week ended 25th October, 1958. For staff paid monthly, the figures are based on payments made in October, 1958. Where payments related to periods other than a week or month, an appropriate proportion was returned. Only those bonuses and commissions actually paid in the period are included.

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.

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.

The Report on the Census of Production for 1958

Part 38. IRON AND STEEL (GENERAL)

This report on the Iron and Steel (General) Industry relates to establishments engaged in the manufacture of puddled and wrought iron, and steel. It includes establishments engaged in the production of pig iron (in integrated steel works), ferro-manganese or spiegeleisen at blast furnaces (including ore preparation plants); making alloy or carbon steel in furnaces or converters; rolling (including re-rolling and cold rolling) steel into semi-finished or finished forms; the production of castings in steel foundries; the production of railway and tramway tyres, wheels and axles, points, switches and crossings; colliery arches; bright bars and heavy forgings; steel plates and sheets (including coated and corrugated sheets) in cut lengths or coils; tinplate, terne-plate and blackplate; and semi-finished material for conversion into tubes and wire. The production of tubes, wire, drop forgings, drop stampings and hot pressings is excluded. The industry corresponds to minimum list heading 311 of the second (1958) edition of the Standard Industrial Classification, which has been used for the first time in the 1958 Census.

This industry corresponds broadly to Industries 3A (Blast Furnaces), 3B (Iron and Steel (Melting and Rolling)), 3D (Steel Sheets) and 3E (Tinplate) in the reports on the last detailed Census of Production, for 1954, but particulars relating to blast furnaces other than those integrated with steel works, formerly included in the Blast Furnaces Report, are now included in the report on the Iron Castings, etc. Industry (Part 40) or in the case of blast furnaces integrated with tube works in the Steel Tubes Industry Report (Part 39). The production of refined pig iron and of ferro-alloys other than in blast furnaces, formerly included in Industry 3B, now form part of minimum list headings 313 and 322 respectively and are included in the reports on Iron Castings, etc. and on Non-ferrous Metals (Part 41).

For 1958, returns in full detail were required only from firms employing twenty-five or more persons and most of the tables in this report relate only to these larger firms. This is an important change from previous censuses when returns in full detail were required from firms employing eleven or more persons on productive work. Estimates for the industry as a whole are given in Table 1.

The figures given for 1954 correspond as closely as possible to those collected for 1958 but the correspondence is not exact; in particular, comparisons are affected by the acceptance for 1958 of combined returns for integrated steel works which made several separate returns for 1954. The 1954 figures have been re-arranged and adjusted to correspond as closely as possible with those for 1958; but it was not possible to do this satisfactorily for sub-divisions of the industry, and consequently 1954 figures are not given for sub-divisions in Table 2. Some other changes introduced in the 1958 Census also affect the comparability between 1954 and 1958 figures; these are explained in the notes prefacing this report.

There were no establishments in this industry in Northern Ireland in 1954 or in 1958.

This industry is defined in terms of its 'principal products' which are those shown in Table 4. A census return was classified to this industry if the sales of the principal products of this industry accounted for a greater proportion of its output than the principal products of any other industry. Where, however, the application of this rule would have resulted in a change of classification between 1954 (on the revised basis) and 1958, the return was classified to the same industry as for 1954 unless the output of principal products in the new industry was one third more than in the old; this modification of the general rule was designed to avoid discontinuities as the result of marginal changes of output between the two censuses. Sales of merchanted products and of non-specific items such as waste products, work done and canteen takings were not taken into account in classifying returns.

A somewhat different procedure was followed in classifying to the sub-divisions of the industry shown in Table 2, the sub-divisions being defined in terms of their 'characteristic products'. The census returns were first classified to the sub-divisions for 'Wrought iron works, including puddling furnaces' and 'Work done on commission and other work done' if more than 50 per cent. of the total value of goods sold and work done (excluding merchanted goods and canteen takings) consisted of characteristic products of these sub-divisions. The remaining returns were first divided into two broad groups according to whether the return indicated that melting was carried on by the firm concerned. Returns in the 'Steel manufacture with melting' group were then allocated to the 'Castings' sub-division if castings accounted for more than 50 per cent. of total sales; otherwise the return was classified to the sub-division for 'Other steel manufacture with melting'. A similar procedure was used for classifying the returns in the 'Steel manufacture without melting' group, the 50 per cent. rule being used to allocate returns to each of the three specialist sub-divisions and the remaining returns being allocated to the 'Other steel manufacture without melting' sub-division. It should be noted, however, that the figures given for characteristic products in both the 'Steel manufacture with melting, other' and the 'Steel manufacture without melting, other' sub-divisions include the value of sales on returns classified to these sub-divisions of any principal products of the industry which are not characteristic products of the sub-divisions for 'Wrought iron works, including puddling furnaces' and 'Work done on commission and other work done'. In all sub-divisions the value of sales of characteristic products also includes other items of output assumed to be closely related to them, e.g. waste products and non-specific work done, but such items were not generally taken into account in determining the classification to sub-divisions.

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Industry summary: United Kingdom

TABLE 1
Estimates for all firms (a)

	Unit	1954	1958
Number of enterprises	No.	..	330
Number of establishments	"	..	512
Sales	{ goods produced and work done	£'000	932,599
	{ merchanted goods and canteen takings	"	12,553
Purchases of materials and fuel (b)	"	615,683	868,178
Products on hand for sale (b)	{ change during year	"	- 69
	{ at end of year	"	24,156
Work in progress	{ change during year	"	+ 2,032
	{ at end of year	"	44,886
Stocks of materials and fuel (b)	{ change during year	"	+ 942
	{ at end of year	"	70,184
Payments for work done on materials given out	"	8,110	11,712
Payments for transport	"	30,179	38,106
Net output	"	281,531	371,274
Average number employed (c)	{ operatives	Th.	220.1
	{ other employees	"	41.0
	{ total, including working proprietors	"	261.2
Wages and salaries	{ of operatives	£'000	117,243
	{ of other employees	"	24,801
Capital expenditure (d)			
New building work	"	7,093	12,407
Plant and machinery	{ acquisitions	"	48,282
	{ disposals	"	450
Vehicles	{ acquisitions	"	1,109
	{ disposals	"	141

(a) For 1958, estimates in respect of returns from small firms and unsatisfactory returns accounted for less than 1 per cent. of the total figures in which they were incorporated. A summary of the detailed returns received is given in Table 2.

(b) Goods for merchenting and canteen supplies are included for 1958 but excluded for 1954.

(c) Persons engaged in merchenting or factoring and canteen workers are included for 1958 but excluded for 1954.

(d) Including expenditure in Great Britain for establishments not yet in production.

Analysis by sub-divisions

TABLE 2

Firms employing 25 or more

	Unit	Sub-divisions of the industry (b)		
		Wrought iron works, including puddling furnaces	Steel manufacture with melting	
			Castings	Other
			1958	1958
Number of enterprises (c)	No.	3	52	48
Number of establishments	"	3	63	95
Sales	£'000	1,121	40,745	826,179
{ goods produced and work done				
{ merchantable goods and canteen takings	"	5	1,444	7,400
Sales of characteristic products	"	842	34,610	754,467 (d)
Purchases of materials and fuel (e)	"	794	16,136	526,504
Products on hand for sale (e)	"	+ 41	- 36	+ 250
{ change during year				
{ at end of year	"	65	303	28,195
Work in progress	"	+ 2	- 235	- 1,174
{ change during year				
{ at end of year	"	19	2,749	35,975
Stocks of materials and fuel (e)	"	+ 36	- 383	- 4,999
{ change during year				
{ at end of year	"	225	2,053	90,210
Payments for work done on materials given out	"	-	1,797	5,053
Payments for transport	"	35	523	28,905
Net output	"	376	23,080	267,195
Average number employed (f)	No.	674	17,697	152,478
{ operatives				
{ other employees	"	80	4,170	31,738
{ total, including working proprietors	"	754	21,868	184,216
Net output per person employed	£	499	1,055	1,450
Wages and salaries	£'000	336	11,145	110,847
{ of operatives				
{ of other employees	"	60	3,192	24,218
Wages and salaries per head	£	498	630	727
{ operatives				
{ other employees	"	756	765	763
Capital expenditure (g)				
New building work	£'000	-	557	8,889
Plant and machinery	"	3	1,388	69,665
{ acquisitions				
{ disposals	"	-	44	318
Vehicles	"	1	118	555
{ acquisitions				
{ disposals	"	-	50	78

of the industry

persons: United Kingdom (a)

	Unit	Sub-divisions of the industry (b)					Total	
		Steel manufacture without melting				Work done on commission and other work done	1954	1958
		Forgings	Steel sheets	Tinplate	Other			
		1958	1958	1958	1958			
		23	12	7	130	19	256	250
		29	19	15	184	21	426	429
		12,362	75,045	86,475	238,440	2,297	929,231	1,282,665
		314	769	132	2,431	10	..	12,507
		11,547	65,055	81,992	222,726 (d)	2,204		
		6,400	58,591	73,162	182,789	669	613,460	865,043
		- 10	- 317	+ 399	+ 426	- 56	- 69	+ 697
		89	1,620	3,462	5,693	28	24,069	39,454
		- 99	+ 237	- 18	- 625	- 2	+ 2,024	- 1,913
		618	6,188	3,313	4,028	11	44,724	52,902
		- 360	+ 233	+ 81	- 3,925	- 23	+ 939	- 9,342
		1,640	5,738	8,161	19,986	55	69,931	128,068
		217	1,990	544	2,050	19	8,081	11,669
		216	1,644	753	5,866	26	30,070	37,968
		5,376	13,743	12,610	46,042	1,512	280,514	369,933
		3,132	11,262	7,348	32,755	1,226	219,347	226,572
		717	2,016	1,803	7,310	152	40,861	47,986
		3,851	13,278	9,151	40,065	1,379	260,217	274,562
		1,396	1,035	1,378	1,149	1,097	1,078	1,347
		2,105	7,547	5,170	20,770	789	116,833	158,708
		711	1,460	1,399	5,385	130	24,714	36,555
		672	670	704	633	643	533	700
		992	724	776	737	856	605	762
		95	159	1,245	909	11	5,475	11,866
		429	3,516	914	4,312	64	37,696	80,291
		42	17	117	108	1	448	647
		49	42	11	266	18	892	1,060
		24	4	1	102	6	141	265

For footnotes to the table, see next page

Analysis by size of enterprise within the industry, 1958

TABLE 3 Firms employing 25 or more persons: United Kingdom

Average number employed by the enterprise in this industry (a)	Enterprises	Estab-lish-ments	Total sales (b)	Net output	Employees		Wages and salaries		Capital expenditure (c)	Net out-put per person employed (a)
					Operatives	Others	Operatives	Others		
					Number	Number	£'000	£'000		
25 - 49	45	48	6,668	2,035	1,331	365	776	312	231	1,199
50 - 99	49	55	13,972	4,135	2,937	604	1,721	501	510	1,167
100 - 199	42	49	21,777	7,460	5,609	995	3,419	889	566	1,130
200 - 299	27	31	36,226	7,403	5,373	1,246	3,367	967	953	1,118
300 - 399	13	21	20,874	4,892	3,714	863	2,437	726	767	1,069
400 - 499	10	12	11,588	4,352	3,642	767	2,167	552	405	987
500 - 749	18	30	31,172	11,057	8,716	1,902	5,459	1,425	913	1,041
750 - 999	6	15	13,035	5,682	4,044	1,087	2,705	773	609	1,107
1,000 - 1,499	11	30	46,073	12,817	12,042	1,974	7,537	1,578	4,841	914
1,500 - 1,999	5	17	41,775	8,483	6,595	1,429	4,233	1,054	727	1,057
2,000 - 2,999	6	22	47,367	15,182	11,744	2,743	7,983	2,036	1,820	1,048
3,000 - 4,999	5	14	74,951	22,331	15,608	3,448	10,553	2,327	7,626	1,172
5,000 - 7,499	5	12	117,882	38,692	24,616	5,385	17,308	3,813	7,681	1,290
10,000 and over	8	73	811,814	225,413	120,601	25,178	89,042	19,602	65,567	1,546
Total	250	429	1,295,172	369,933	226,572	47,986	158,708	36,555	93,217	1,347

(a) Including working proprietors.

(b) Value of sales of goods (including merchant goods), work done, and canteen takings.

(c) Capital expenditure on new building work and on acquisition of plant, machinery and vehicles. Excluding expenditure for establishments not yet in production.

Footnotes to Table 2

(a) The following information relates to small firms (employing fewer than 25 persons) in this industry:

	1958
Number of returns	81
Average number of persons employed including working proprietors	
Males	849
Females	138

(b) The method of classifying returns to sub-divisions of the industry is explained at the beginning of this report.

(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) Includes sales of other products besides those characteristic of the sub-division (see the note on Method of Classification).

(e) Goods for merchandising and canteen supplies are included for 1958 but excluded for 1954.

(f) Persons engaged in merchandising or factoring and canteen workers are included for 1958 but excluded for 1954.

(g) Excluding expenditure at establishments not yet in production.

Sales of principal products of the industry by larger firms, including sales by establishments classified to other industries

TABLE 4 Firms employing 25 or more persons: United Kingdom

	1954		1958		Enter-prises	Entries
	Quantity	Value	Quantity	Value		
	Th. tons	£'000	Th. tons	£'000		
Spiegeleisen and blast furnace ferro-manganese	171	8,803	155	12,136	7	7
Finished wrought iron	46.9	1,924	18.9	1,044	9	9
Steel ingots, other than of alloy steel	1,400	29,795	1,274	35,149	27	48
Ingots of alloy steel						
Stainless and heat-resisting	46.8	4,313	60.3	6,636	13	13
Other descriptions	38.0	1,637	46.1	2,188	20	25
Steel castings, excluding rolls for metal rolling mills and for other machinery (a)						
Other than of alloy steel	188	24,540	198	36,338	82	89
Of alloy steel	58.8	13,817	45.1	14,055	71	76
Steel blooms, billets and slabs (including sheet and tinplate bars)						
Other than of alloy steel						
Sheet and tinplate bars	1,051	28,336	559	20,001	9	16
Slabs for continuous wide strip mills	4,804	132,761	871	29,327	..	..
Other descriptions			3,565	129,049	32	49
Of alloy steel						
Stainless and heat-resisting	7.4	1,319	18.9	4,860	15	15
Other descriptions	307	15,504	352	22,206	25	33
Steel rods and bars, etc., other than of alloy steel (excluding sheet and tinplate bars)						
Wire rods	810	27,461	974	43,361	24	30
Bright bars	261	13,982	295	19,965	44	47
Flats 5 inches and under in width, rounds, hexagons and squares under 3 inches and bars and rods for reinforcing purposes	1,434	52,589	1,613	76,615	83	105
Flats over 5 inches in width and rounds, hexagons and squares 3 inches and over	257	8,832	350	16,041	43	51
Angles, shapes and sections and girders, beams, joists and pillars (rolled) other than of alloy steel (b)						
Channels 3 inch web and under, girders, beams, joists and pillars (rolled) under 3 inch web and other descriptions 4 united inches and under	350	13,132	351	16,763	36	44
Channels over 3 inch web and other descriptions over 4 united inches	1,009	31,270	1,033	44,997	23	30
Girders, beams, joists and pillars (rolled) 3 inch web and over	544	16,543	600	25,061	9	14

TABLE 4 (contd.)

	1954		1958			
	Quantity	Value	Quantity	Value	Enter-prises	Entries
	Th. tons	£'000	Th. tons	£'000	Number	Number
Steel rods and bars, angles, shapes and sections and girders, beams, joists and pillars (rolled) of alloy steel (c)						
Stainless and heat-resisting	23.0	5,732	24.0	8,278	31	35
Other descriptions	202	21,155	246	31,108	69	87
Steel arches, cambered joists, solid plain pit props, bench or header bars and accessories (d)	400	13,309	456	22,019	27	29
Hot rolled strip from wide continuous mills	721	24,618	999	44,340	..	5
Hoop and strip under 18 inches in width						
Other than of alloy steel						
Hot rolled hoop and strip	502	21,194	647	29,188	28	32
Cold rolled strip	362	21,095	412	29,609	26	30
Of alloy steel						
Stainless and heat-resisting	4.8	2,009	9.8	3,972	7	10
Other descriptions	0.9	213	3.6	816	10	11
Steel plates, uncoated, 3 mm. thick and over (e)						
Other than of alloy steel	2,297	78,635	2,506	117,346	27	35
Of alloy steel						
Stainless and heat-resisting	22.4	4,199	11.4	4,672	7	9
Other descriptions			45.5	4,795	18	20
Steel plates and sheets, uncoated, under 3 mm. thick (e)						
Other than of alloy steel						
Blackplate	179	8,451	265	14,110	7	12
Sheets	1,591	72,867	1,933	113,667	26	38
Of alloy steel						
Stainless and heat-resisting	24.5	9,762	28.8	12,626	10	11
Other descriptions	2.2	481	3.6	917	17	18
	..	157				
Tinplates	769	53,011	877	65,346	5	10
Tinned sheets	3.6	360	5.0	532	..	..
Galvanised sheets						
Flat	105	5,907	105	6,910	11	13
Corrugated	215	13,901	109	7,468	11	13
Terne-plates and sheets	16.9	1,091	71.4	4,959	..	..
Other coated plates or sheets	45.7	2,412				

(91261)

TABLE 4 (contd.)

	1954		1958			
	Quantity	Value	Quantity	Value	Enter-prises	Entries
	Th. tons	£'000	Th. tons	£'000	Number	Number
Railway, etc., material						
Steel rails, new (including grooved rails for trams and conductor rails for electric traction)						
Weighing under 36 lb. per yard (f)	42.0	1,400	32.9	1,437	9	9
Weighing 36 lb. per yard and over	492	15,725	552	24,226	12	13
Points, switches and crossings	40.7	2,433	48.6	3,536	13	15
	..	483	..	1,041		
Sleepers, fishplates and soleplates	126	4,530	125	6,495	17	21
Axles, tyres and wheels for locomotives, carriages, wagons and trucks (all gauges)	283	18,594	317	25,607	19	22
Other railway equipment not elsewhere specified, excluding railway signals, signalling apparatus and railway chairs	43.9	2,377	..	4,136	37	40
	..	606				
Steel forgings, in the rough or machined, excluding drop forgings and rolls for metal rolling mills and other machinery (g)						
Other than of alloy steel	121	16,102	136	22,809	68	72
Of alloy steel	56.0	12,492	69.6	18,314	58	61
	..	..	..	5,089		
Permanent magnets	..	2,972	..	3,011	18	18
Other products	..	3,362	..	9,964	84	110
Scrap metal sold						
Iron and steel	1,170	8,406	1,071	13,216	219	284
Other descriptions	31.2	233	74.1	840	62	74
	..	232	..	85		
Waste and by-products sold						
Blast furnace slag	97.4	134	1,458	241	14	18
	..	92	..	31		
Other	758	1,765	608	1,217	75	94
	..	376	..	194		
Work done on commission, sub-contract work, etc.						
Tilting and rolling		3,699		4,867	64	83
Heat treatment		957		1,366	57	64
Other work		3,973		5,748	107	127
Total		888,062		1,231,940	..	..
Sales in other industries (see Table 5)		18,910		34,690	..	..
Principal products of this industry sold by establishments in the industry		869,152		1,197,250	250	375(h)

(a) Rolls for metal rolling mills and for other machinery are included in the report on the General Mechanical Engineering Industry.

(b) Including girders, beams, joists and pillars (rolled) of alloy steel in 1954.

(c) Excluding girders, beams, joists and pillars (rolled) of alloy steel in 1954.

(d) Described in 1954 as 'Steel arches for collieries and similar purposes'.

(e) For 1954, the figures for steel plates relate to those 1/8 inch thick and over, or under 1/8 inch thick.

(f) May include a small amount of steel rails weighing over 36 lb. per yard in 1954.

(g) May include some rolls for metal rolling mills and for other machinery in 1954.

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

(91261)

Sales of principal products of the industry by establishments
classified to other industries

TABLE 5 Firms employing 25 or more persons: United Kingdom

	1954		1958			
	Quantity	Value	Quantity	Value	Entries	Principal industries in which produced (a)
	Th. tons	£'000	Th. tons	£'000	Number	
Spiegeleisen and blast furnace ferro-manganese	2.7	386	1.4	231	..	41
Steel castings, excluding rolls for metal rolling mills and for other machinery						
Other than of alloy steel	18.8	2,527	22.9	3,591	29	40, 50, 51
Of alloy steel	1.7	366	6.4	1,408	23	40, 50, 52, 53
Steel rods and bars, etc., other than of alloy steel (excluding sheet and tinplate bars)						
Wire rods	17.1	639	15.1	720	6	72
Bright bars, flats, rounds, hexagons and squares and bars and rods for reinforcing purposes	18.8	1,010	23.3	1,722	6	39, 69, 71, 72
Steel rods and bars, angles, shapes and sections and girders, beams, joists and pillars (rolled) of alloy steel	2.8	234	3.9	423	5	39, 63, 72
Steel arches, cambered joists, solid plain pit props, bench or header bars and accessories	0.2	7	10.0	569	9	40, 44, 51, 67
Railway, etc., material						
Axles, tyres and wheels for locomotives, carriages, wagons and trucks (all gauges)	2.5	306	6.4	863	10	50, 53, 66, 67
Other railway equipment not elsewhere specified, excluding railway signals, signalling apparatus and railway chairs	8.8	593	13.3	1,130	17	40, 66, 71, 75
..	..	490	..	829	..	..
Steel forgings, in the rough or machined, excluding drop forgings and rolls for metal rolling mills and other machinery						
Other than of alloy steel	18.0	2,130	33.1	3,613	25	50, 67, 71, 75
Of alloy steel	6.3	1,145	9.0	1,346	16	41, 45, 67, 75
..	..	..	..	4,994	..	..
Permanent magnets	..	1,196	..	631	6	44, 56, 70
Other products	389	7,671	311	11,409	63	
..	..	180	..	1,117	..	
Work done on commission, sub-contract work, etc.		32		93	..	
Total		18,910		34,690	..	

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

Sales of other than principal products by larger firms in the industry

TABLE 6 Firms employing 25 or more persons: United Kingdom

	1954		1958	
	Quantity	Value	Quantity	Value
	Th. tons	£'000	Th. tons	£'000
Phosphatic ground basic slag for manure	233	660	145	570
			..	374
Pig iron	1,571	23,254	1,753	38,733
Iron castings in the rough or machined	58.8	2,527	12.6	1,057
Wood and metal patterns	..	148	..	160
Manufactures of non-ferrous metals, not elsewhere specified	5.6	1,280	2.7	1,039
			..	692
Industrial plant and fabricated iron and steel work	47.0	1,929	23.9	1,847
	..	347	..	209
Rolls for metal rolling mills	8.9	1,424	15.8	4,211
Other machinery and parts thereof	..	1,299	..	1,522
Other and unclassified engineering products	..	1,076	..	1,131
Railway equipment and signalling apparatus, etc.	1.5	251	2.7	490
	..	143	..	..
Engineers' small tools	..	1,699	..	2,002
Other tools and implements	..	324	..	174
Bolts, nuts, and rivets of iron and steel (other than tubular rivets or bifurcated rivets manufactured from wire)	4.6	333	5.0	594
	..	182	..	..
Springs				
Laminated	25.6	2,394	19.2	2,308
Other than laminated	3.0	475	3.2	666
Other chain, nail, screw, and miscellaneous forgings including steel drop forgings	25.3	3,686	21.8	4,247
Manufactures of iron and steel, not elsewhere specified	134	6,583	138	9,058
Other goods	..	4,013	..	2,724
Structural work carried out in Great Britain (a)		1,562		900
Other work		367		393
Sales to other departments of the firm or to outside consumers				
Gas	Th. therms 46,047	778	Th. therms 223,990	4,916
Electricity	Mn.kWh. 389	1,509	Mn.kWh. 681	3,316
Steam and waste heat	..	1,834	..	2,082
Total value of goods sold without being subjected to any manufacturing process (merchanted or factored)	..	..	..	11,044
Canteen takings		..		1,464
Total		..		97,922

(a) Value of work done during the year, exclusive of the value of goods used by firms and recorded as their output. The value of these goods was recorded as £2,401,000 in 1954 and £301,000 in 1958.

Total make of intermediate products, 1958

TABLE 7

Firms employing 25 or more persons: United Kingdom

	Returned in this industry			Returned in all industries		
	Quantity	Enter-prises	Entries	Quantity	Enter-prises	Entries
	Th.tons	Number	Number	Th.tons	Number	Number
Spiegeleisen and blast furnace ferro-manganese	197	..	..	198	7	7
Finished wrought iron	(a)	..	..	20.2	9	9
Steel ingots, other than of alloy steel	(a)	..	..	17,441	42	69
Ingots of alloy steel						
Stainless and heat-resisting	117	19	19	117	19	19
Other descriptions	(a)	..	..	748	33	34
Steel castings, excluding rolls for metal rolling mills and for other machinery						
Other than of alloy steel	186	58	63	225	94	102
Of alloy steel	44.5	51	57	52.6	76	84
Steel blooms, billets and slabs (including sheet and tinplate bars)						
Other than of alloy steel						
Sheet and tinplate bars	(a)	..	..	561	9	16
Slabs for continuous wide strip mills	3,778	..	..	3,778	..	..
Other descriptions	(a)	..	..	10,050	35	55
Of alloy steel						
Stainless and heat-resisting	53.7	17	20	53.7	17	20
Other descriptions	477	28	39	477	28	39
Steel rods and bars, etc., other than of alloy steel (excluding sheet and tinplate bars)						
Wire rods	981	20	24	1,006	25	30
Bright bars	276	..	..	297	43	46
Flats 5 inches and under in width, rounds, hexagons and squares under 3 inches and bars and rods for reinforcing purposes	(a)	..	..	1,625	87	109
Flats over 5 inches in width and rounds, hexagons and squares 3 inches and over	368	43	51	368	43	51
Angles, shapes and sections and girders, beams, joists and pillars (rolled) other than of alloy steel						
Channels 3 inch web and under, girders, beams, joists and pillars (rolled) under 3 inch web and other descriptions 4 united inches and under	359	36	43	359	36	43
Channels over 3 inch web and other descriptions over 4 united inches	1,161	23	30	1,161	23	30
Girders, beams, joists and pillars (rolled), 3 inch web and over	679	9	14	679	9	14

TABLE 7 (contd.)

	Returned in this industry			Returned in all industries		
	Quantity	Enter-prises	Entries	Quantity	Enter-prises	Entries
	Th.tons	Number	Number	Th.tons	Number	Number
Steel rods and bars, angles, shapes and sections and girders, beams, joists and pillars (rolled) of alloy steel						
Stainless and heat-resisting	36.0	32	37	36.0	32	37
Other descriptions	280	63	80	284	68	85
Steel arches, cambered joists, solid plain pit props, bench or header bars and accessories	440	18	20	450	27	29
Hot rolled strip from wide continuous mills	3,535	..	5	3,535	..	5
Hoop and strip under 18 inches in width						
Other than of alloy steel						
Hot rolled hoop and strip	(a)	..	..	1,132	26	30
Cold rolled strip	(a)	..	..	417	26	30
Of alloy steel						
Stainless and heat-resisting	(a)	..	..	11.8	7	10
Other descriptions	3.8	10	11	3.8	10	11
Steel plates, uncoated, 3 mm. thick and over						
Other than of alloy steel	(a)	..	..	2,526	28	36
Of alloy steel						
Stainless and heat-resisting	12.3	7	9	12.3	7	9
Other descriptions	(a)	..	..	45.2	18	20
Steel plates and sheets, uncoated, under 3 mm. thick						
Other than of alloy steel						
Blackplate	531	8	13	531	8	13
Sheets	(a)	..	..	2,059	24	36
Of alloy steel						
Stainless and heat-resisting	30.8	9	10	30.8	9	10
Other descriptions	3.7	15	16	3.7	15	16
Tinplates	886	..	9	886	..	9
Tinned sheets	5.1	..	..	5.1	..	..
Galvanised sheets						
Flat	108	11	13	108	11	13
Corrugated	106	11	13	106	11	13

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

Employment and salaries, etc. for the week ended October 25, 1958

TABLE 8 Firms employing 25 or more persons: United Kingdom

	Males	Females	Total
	Number	Number	Number
Working proprietors	4	-	4
Operatives	210,726	8,042	218,768
Administrative, technical and clerical employees	36,078	12,052	48,130
Total employees	246,804	20,094	266,898
Average salaries, etc. paid per head for the week to administrative, technical and clerical employees	£ 16.6	£ 7.5	£ 14.3

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- 13 Cocoa, Chocolate and Sugar Confectionery
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- 30 Toilet Preparations
- 31 Explosives and Fireworks
- 32 Paint and Printing Ink
- 33 Vegetable and Animal Oils and Fats
- 34 Soap, Detergents, Candles and Glycerine
- 35 Synthetic Resins and Plastics Materials
- 36 Polishes
- 37 Gelatine, Adhesives, etc.
- 38 Iron and Steel (General)
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- 40 Iron Castings, etc.
- 41 Non-ferrous Metals
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- 48 Mechanical Handling Equipment
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- 51 Industrial Plant and Steelwork
- 52 Ordnance and Small Arms
- 53 General Mechanical Engineering
- 54 Scientific, Surgical and Photographic Instruments, etc.
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- 135 Summary Volume

CENSUS OF PRODUCTION REPORTS FOR OTHER RECENT YEARS

The census reports for earlier years include some items which are not included in the Report on the Census of Production for 1958. The most recent reports are listed below, with an indication of any important items they contain which do not appear in the 1958 Reports. The data in all these earlier reports is analysed in accordance with the original (1948) edition of the Standard Industrial Classification.

Census of Production for 1951: Summary Tables, Part I (H.M.S.O., 1956. Price 6s. net).

No important items which do not appear in the 1958 Reports.

Census of Production for 1951: Summary Tables, Part II (H.M.S.O., 1956. Price 6s. net).

Channels of sales, 1948

Payments for services, 1948

Shift working, 1951

Power equipment, 1951

Prime movers, 1951

Analysis of periods covered by census returns, 1948 and 1951.

The Report on the Censuses of Production for 1952 and 1953. Introductory Notes and 5 volumes. (These volumes are now out of print.)

No important items which do not appear in the 1958 Reports.

The Report on the Census of Production for 1954. Introductory Notes, Index of Products, and 154 booklets relating to individual industries (H.M.S.O., 1956-59. Prices vary, usually from 1s. 6d. to 2s. net for each booklet).

Detailed information about materials and fuel purchased.

Census of Production for 1954: Summary Tables, Part I (H.M.S.O., 1958. Price 9s. net).

Fuel purchased

Gas produced in certain industries

Electricity generated, purchased and sold

Materials purchased: iron and steel; non-

ferrous metals; paint; plastics materials;

cotton and rayon, nylon, etc. textiles; timber;

packing materials; replacement parts for plant

etc. (Information about purchases of other

materials is given in The Report on the Census

of Production for 1954.)

Census of Production for 1954: Summary Tables, Part II (H.M.S.O., 1959. Price 7s. net).

Regional analyses of gross output, net output and capital expenditure.

Census of Production for 1954: Summary Tables, Part III (H.M.S.O., 1959. Price 8s. net).

Sales of particular products by certain industries in Scotland and Wales.

The Report on the Censuses of Production for 1955, 1956 and 1957. Introductory Notes and 5 volumes (H.M.S.O., 1959. Prices 1s. 6d. to 3s. 6d. net according to size of volume).

No important items which do not appear in the 1958 Reports.

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