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BOARD OF TRADE

FINAL REPORT
on the
CENSUS OF PRODUCTION
FOR 1948

Volume 3

Trade A

Blast Furnaces

*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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In interpreting the data in the following tables, it is essential to bear in mind not only the qualifications mentioned in this report but also the general explanations and qualifications contained in the separate booklet published in this series by H.M. Stationery Office entitled "Final Reports of the Census of Production for 1948: Introductory Notes", price 2s Od. NET

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* Not applicable to this trade

BLAST FURNACES

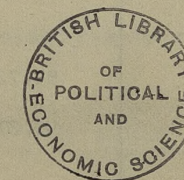
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BLAST FURNACES TRADE

THIS REPORT on the Blast Furnaces Trade relates to establishments engaged wholly or mainly in iron smelting and the manufacture of pig-iron, ferro-manganese and spiegeleisen.

This trade corresponds to minimum list heading 40 in the Standard Industrial Classification.

Any establishments in Northern Ireland are excluded in 1948; no production was recorded there in this trade for 1937 or 1935.



METAL MANUFACTURE
BLAST FURNACES TRADE
Summary
Larger establishments

TABLE 1

	1948	1937	1935
Gross output (production)	£'000 91,906	£'000 35,914	£'000 21,047
Cost of materials and fuel used	72,878	29,129	16,964
Payment for work done on materials given out	70	..	..
Net output	18,958	6,785	4,083
Wages and salaries of persons employed	10,596	..	..
Average number of persons employed	No. 27,257	No. 19,565	No. 15,815
Net output per person employed	£ 696	£ 347	£ 258
Stocks at end of year	£'000	£'000	£'000
Finished products and work in progress	1,302	..	..
Materials and fuel	4,925	..	..
Number of establishments	No. 51	No. ..	No. 48

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

	1948	1937	1935
Output of firms in this trade	£'000	£'000	£'000
Total value of sales (1948) or production (1937 and 1935)			
Principal products (see Table 8)	84,733	33,572	19,287
Other output (see Table 10)	9,378	2,342	1,760
Adjustment for changes in stocks and work in progress (see Table 14)	- 123	..	..
	93,988	35,914	21,047
Less payment for transport by other firms	2,083	..	..
Gross output (production)	91,906	35,914	21,047
Materials and fuel used by firms in this trade			
Purchases (see Table 13)	73,877	29,129	16,964
Adjustment for changes in stocks (see Table 14)	- 799		
Materials and fuel used	72,878	29,129	16,964

TABLE 2 - Small firms in Great Britain

TABLE 3 - Estimated average employment, 1948:
All firms in Great Britain

There were no firms employing not more than ten persons on the average. For total average employment in this trade, see Table 1.

Analysis by size, 1948

Larger establishments in Great Britain

TABLE 4

Average number employed	Establishments	Gross output	Net output	Persons employed	Remuneration			Net output per person employed
					Wages	Salaries	Total	
11-49	No. 5	£'000 314	£'000 93	No. 137	£'000 45	£'000 12	£'000 57	£ 681
50-99	3	500	144	200	78	16	95	720
100-199	9	5,409	1,564	1,480	470	109	579	1,057
200-399	7	6,130	1,229	2,220	682	130	813	554
400-499	4	7,627	1,466	1,885	650	97	748	778
500-749	13	28,946	5,257	8,161	2,717	465	3,182	644
750-999	6	19,315	3,902	5,242	1,756	306	2,063	744
1,000 and over	4	23,665	5,302	7,932	2,596	466	3,061	668
Total	51	91,906	18,958	27,257	8,994	1,602	10,596	696

Analysis by standard region, 1948

Larger establishments in Great Britain

TABLE 5

Region	Establishments	Gross output	Net output		Persons employed	Remuneration		
			Value	Percentage of total		Wages	Salaries	Total
England and Wales	No.	£'000	£'000		No.	£'000	£'000	£'000
Northern	11	30,063	5,944	31.4	9,294	3,165	354	3,520
North Midland	14	28,680	6,619	34.9	9,264	2,848	734	3,582
North Western	6	5,120	980	5.2	1,434	464	103	566
Other regions	16	20,655	3,926	20.7	5,358	1,698	335	2,233
Total England and Wales	47	84,518	17,469	92.1	25,350	8,375	1,526	9,901
Scotland	4	7,388	1,489	7.9	1,907	619	75	695
Great Britain	51	91,906	18,958	100.0	27,257	8,994	1,602	10,596

TABLE 6 - Analysis according to specialisation within the trade, 1948:
Larger establishments in Great Britain

No specialisation within the trade was distinguished.

TABLE 7 - Total make of Intermediate products: Larger establishments

This table is not applicable to the trade.

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

Larger establishments

TABLE 8

	1948			1937		1935	
	Sales			Production		Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th. tons	£'000	No.	Th. tons	£'000	Th. tons	£'000
Pig iron							
Forge	82.1	720	12	162.3	662	115.4	345
Foundry	1,402.6	13,114	22	1,626.5	6,965 (a)	1,336.2	4,166 (a)
Hematite	1,379.3	13,879	11	1,827.6	8,639	1,523.8	4,840
Basic	6,155.1	53,522	28	4,609.3	15,926	3,412.2	9,118
Total pig iron	9,019.1	81,235		8,225.7	32,192	6,387.6	18,469
Ferro-manganese	140.3	3,245	8	131.7	1,343	74.6	696
Spiegeleisen	29.4	350	..			20.9	100
Direct iron castings	3.7	39	7			7.4	37	5.0	22
Total		84,868			33,572		19,287
Less sales (or production) in other trades (see Table 9)		136			-		-
Total principal products of this trade sold or made by establishments in the trade		84,733	50		33,572		19,287

(a) Including refined pig iron produced by firms in the trade.

TABLE 9 - Sales (or production) of principal products of the trade by
establishments classified to other trades: Larger establishments

The sales in 1948 recorded by establishments classified to other trades included only 1,500 tons of ferro-manganese valued at £136,000. No production of principal products of this trade was recorded by other establishments for 1937 or 1935.

Sales (or production) in the trade of other
than principal products

Larger establishments

TABLE 10

	1948		1937		1935	
	Sales		Production		Production	
	Quantity	Value	Quantity	Value	Quantity	Value
Pig iron, refined	Th. tons 38.5	£'000 480	Th. tons ..	£'000 (a)	Th. tons ..	£'000 (a)
Ground slag	315.8	198	530.0	120	428.8	112
Slag, not ground	1,785.3	231	1,403.2	123	1,324.5	98
Tarred macadam (including tarred slag)	228.2	321	345.1	181	180.7	98
Mill.			Mill.		Mill.	
B.T.U.			B.T.U.		B.T.U.	
(kW. hrs.)			(kW. hrs.)		(kW. hrs.)	
Electricity sold	629	1,952	342	527	378	607
Gas sold	..	4,204	..	1,098	..	740
Waste heat sold	..	502	..	293	..	105
Coke	Th. tons 37.1	99				
Coke breeze	..	102				
Non-ferrous metals and manufactures thereof	..	68				
Other output	..	1,222				
Total		9,378		2,342		1,760

(a) Not recorded separately; see footnote (a) to Table 8.

METAL MANUFACTURE
Analysis of sales, 1948
Larger establishments in Great Britain

TABLE 11

	Sales	Percentage of total sales
Sales (or transfers) to other organisations under the same control	£'000	
Productive works	64,751	68.8
Export sales organisations (including branches abroad)	-	-
Other wholesale or selling organisations	-	-
Total sales (or transfers) to other organisations under the same control	64,751	68.8
Sales to independent buyers		
Exports invoiced directly overseas	170	0.2
Exports invoiced to Crown Agents and purchasing houses in this country of individual firms and governments abroad	4	-
His Majesty's Government and Local Authorities (other than productive establishments)	224	0.2
Manufacturers, repairers, builders, mines, public utilities, and transport and other productive undertakings	27,008	28.7
Other independent buyers	1,954 (a)	2.1
Total sales to independent buyers	29,360	31.2
Total	94,111	100.0

(a) Of this total £250,000, so far as recorded separately, relates to sales to merchants, for export.

Production, exports and imports of certain principal products

TABLE 12

		Production (a)(b)	Exports	Retained imports
		Th. tons	Th. tons	Th. tons
Pig iron				
Forge and foundry (c)	{ 1948	1,523.2	1.5	6.4(d)
	{ 1937	1,788.8	87.0	158.3(d)
Hematite	{ 1948	1,379.3	-	37.4
	{ 1937	1,827.6	65.8	50.5
Basic	{ 1948	6,155.1	-	15.6
	{ 1937	4,609.3	0.6	425.0
Total pig iron	{ 1948	9,057.6	1.5	59.4
	{ 1937	8,225.7	153.4	633.8
Ferro-manganese and spiegeleisen	{ 1948	169.6	3.2	-
	{ 1937	131.7	11.0	4.5

- (a) Including sales (or production) by establishments classified to other trades.
 (b) Sales in 1948 and production for sale in 1937 by larger establishments.
 (c) The sales or production figures include the output of refined pig iron (38,500 tons in 1948) refined pig iron; particulars of exports in 1937 or of imports in either year are not available.
 (d) Including "Pig iron smelted wholly with charcoal" (3,400 tons in 1948; 30,200 tons in 1937) and "Vanadium - titanium pig iron produced in an electric furnace" (1,500 tons in 1948; 5,200 tons in 1937).

Purchased materials and fuel

Larger establishments

TABLE 13

	1948		1937		1935	
	Materials and fuel purchased		Usage of purchased materials and fuel			
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Materials						
Iron ore						
Imported	7,948	15,746	18,689	12,254	14,982	7,415
Home produced	12,352	6,502				
Limestone	2,114	1,330	2,274	690	1,746	492
Scrap	638.3	1,783	346.2	798	276.0	462
Cinder and scale	462.2	616	671.5	564	474.4	330
Manganese ore	351.3	1,693	..	1,875	..	1,492(a)
All other purchased materials	..	4,814				
Fuel and electricity						
Coal	336.8	858	320.7	292	344.0	220
Coke	10,325.5 Th. B. T. U. (kW. hrs.) 362,295	38,107	9,568.2 Th. B. T. U. (kW. hrs.)	12,176	7,170.3 Th. B. T. U. (kW. hrs.)	6,368
Electricity purchased (b)		1,148	208,768	340	128,821	185
Electricity obtained from other works under the same ownership	68,633	302				
Motor spirit (petrol) and deriv. fuel	Th. galls.					
Used for road vehicles	78	7	..	140	..	(c)
Used for other power purposes	47	3				
Other oil fuel (including creosote/pitch mixtures)	{ 650	{ 24				
	{ ..	{ 53				
Gas purchased	Th. therms.					
From public supply	62	2	..	140	..	(c)
From other sources	3	-				
Gas obtained from other works under the same ownership	{ 8,222	{ 88				
	{ Mill. cu. ft. 8,777	{ 145				
All other purchased fuel	..	407				
Fuel, unclassified	..	48				
Total		73,677		29,129		16,964

- (a) Including fuel not specified separately.
 (b) The total quantity of electricity consumed in 1948 was 791,688,000 B.T. units, including 360,759,000 generated in the same works.
 (c) Not recorded separately.

Stocks of finished products and work in progress and stocks of materials and fuel, 1948

Larger establishments in Great Britain

TABLE 14

	At beginning of year		At end of year	
	Quantity	Value	Quantity	Value
	Th. tons	£'000	Th. tons	£'000
Finished products				
Pig iron	164.2	1,153	139.3	1,066
Ferro-alloys	12.6	205	7.1	132
Other finished products	..	9	..	17
		59		37
Work in progress				
Total finished products and work in progress		1,425		1,302
Materials and fuel				
Iron ore	1,500.8	2,071	1,586.0	2,228
Coke	204.8	608	284.3	914
Other descriptions of materials and fuel	..	1,447	..	1,783
Total materials and fuel		4,126		4,925

Employment and remuneration : Larger establishments (a)

TABLE 15

	Average number of operatives			Administrative, technical and clerical employees (b)			Total		
	1948	1937	1935	1948	1937	1935	1948	1937	1935
Males									
Under 18	462	490	371	155	141	89	617	631	460
All ages	23,480	18,156	14,530	2,858	1,196	1,082	26,338	19,352	15,612
Females									
Under 18	-	-	2	171	39	17	171	39	19
All ages	149	14	21	770	199	182	919	213	203
Total									
Under 18	462	490	373	326	180	106	788	670	479
All ages	23,629	18,170	14,551	3,628(c)	1,395	1,264	27,257(c) (d) (e)	19,565	15,815
Total remuneration	£'000			£'000			£'000		
	8,994	..	..	1,602	..	..	10,596	..	..

(a) Excluded employees. The following numbers were employed at establishments in this trade but are not included in the table or in any other report (e.g., employees in a separate selling or transport organisation for which separate accounts are kept):-

Canteen workers 14 males, 111 females
Other workers 37 males, 50 females

(b) Number at September 25, 1948, October 16, 1937, and October 12, 1935.

(c) No working proprietors were recorded for 1948.

(d) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to £216,000.

(e) The following persons (included in this total) were employed on special work by establishments employing 100 or more persons:-

	Operatives	Administrative, technical and clerical employees
Transport of goods outside the premises	*	
Maintenance and repair of firms' buildings, but not plant	169	
Research work not directly connected with current production however charged	2	40

* Negligible.

Wages and salaries paid, 1948 (a)

Larger establishments in Great Britain

TABLE 16

	Amount paid by all establishments	Establishments making returns for the calendar year					Year
		Amount paid	Percentage of annual remuneration paid in				
			First quarter	Second quarter	Third quarter	Fourth quarter	
Wages and salaries of	£'000	£'000					
Operatives	8,994	4,072	23.7	25.2	25.1	26.0	100.0
Administrative, technical and clerical employees	1,602	819	24.5	24.8	24.8	26.0	100.0
Total	10,596	4,891	23.8	25.1	25.1	26.0	100.0

(a) Including bonus and commission payments.

TABLE 17 - Payments for work done on materials given out, 1948

The total amount paid by larger establishments in Great Britain for work done on materials given out was £70,000.

Payments for certain services, 1948

Larger establishments in Great Britain

TABLE 18

	Amount paid
	£'000
Repair and maintenance	
Of buildings	12
Of plant, machinery and vehicles	233
Unclassified	324
Hire of plant, machinery and vehicles	173
Advertising and market research	17
Payments made for research work	
To research associations	7
To universities, institutions, academic bodies and similar agencies	5
To other commercial concerns	1
Postage, telephone, telegrams and cables	39
Commercial insurance premiums	72
Rates (excluding water rates) payable in the year	66

3/A/10

METAL MANUFACTURE

Plant, machinery and vehicles acquired and disposed of, 1948
Larger establishments in Great Britain

TABLE 19

	Acquisitions		Disposals
	New	Second-hand	
Plant and machinery	£'000 2,725	£'000 128	£'000 115
Vehicles	60	20	265
Total	2,785	147	380

Capital expenditure on building work and changes in occupation of buildings and land, 1948

Larger establishments in Great Britain

TABLE 20

	£'000	£'000
1. Capital expenditure on building work (a)		589
2. Existing buildings and land (b)		
(1) Capital cost of freeholds bought	12	
Estimated capital value of		
(ii) Rented property newly occupied in the year (c)	88	
(iii) Leasehold buildings and land newly occupied in the year	77	
Total of heading 2		177
Total of headings 1 and 2		766
3. Existing buildings and land relinquished (d)		
(1) Selling value of freeholds sold	9	
(ii) Estimated value of other properties relinquished	-	
Total of heading 3		9
4. Headings 1 and 2 less heading 3		757

- (a) Excluding site value, which, where appropriate, is included in heading 2(i).
 (b) The figures do not reflect changes in ownership of previously occupied land and buildings.
 (c) Property which is occupied under an agreement for the payment of rent without the purchase of a lease or the payment of a premium.
 (d) Including property destroyed or abandoned.

DS 84756/1(10)

BLAST FURNACES. COUNTRY TABLES

3/A/11

1948

Note - Owing to the risk of disclosure of information relating to individual firms, separate particulars for Wales cannot be given.

Summary

Larger establishments

TABLE 21

	England and Wales	Scotland	Great Britain
Gross output (production)	£'000 84,518	£'000 7,388	£'000 91,906
Cost of materials and fuel used	66,979	5,899	72,878
Payment for work done on materials given out	70	-	70
Net output	17,469	1,489	18,958
Wages and salaries of persons employed	£ 9,901	£ 695	£ 10,596
Average number of persons employed	No. 25,350	No. 1,907	No. 27,257
Net output per person employed	£ 689	£ 731	£ 696
Stocks at end of year	£'000	£'000	£'000
Finished products, and work in progress	1,246	56	1,302
Materials and fuel	4,490	435	4,925
Number of establishments	No. 47	No. 4	No. 51

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

	England and Wales	Scotland	Great Britain
Output of firms in this trade	£'000	£'000	£'000
Total value of sales (see Table 23)	86,558	7,553	94,111
Adjustment for changes in stocks and work in progress	- 88	- 35	- 123
Less payment for transport by other firms	1,953	130	2,083
Gross output (production)	84,518	7,388	91,906
Materials and fuel used by firms in this trade			
Purchases (see Table 24)	67,790	5,887	73,677
Adjustment for changes in stocks	- 811	+ 12	- 799
Materials and fuel used	66,979	5,899	72,878

TABLE 22 - Summary : Small firms

There were no small firms in this trade.

DS 84756/1(11)

Sales in the trade
Larger establishments

TABLE 23

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Principal products						
Pig iron						
Forge	82.1	720	-	-	82.1	720
Foundry					1,402.6	13,114
Hematite	8,166.7	73,367	770.3	7,148	1,379.3	13,879
Basic					6,155.1	53,522
Total pig iron	8,248.8	74,087	770.3	7,148	9,019.1	81,235
Ferro-manganese	138.8	3,109	-	-	138.8	3,109
Spiegeleisen	29.4	350	-	-	29.4	350
Direct iron castings	3.7	39	-	-	3.7	39
Total principal products		77,585		7,148		84,733
Other products						
Pig iron, refined	38.5	480	-	-	38.5	480
Ground slag	..	(a)	..	(a)	315.8	198
Slag, not ground					1,785.3	231
Tarred macadam (including tarred slag)	228.2	321	-	-	228.2	321
Electricity sold	..	(a)	..	(a)	629	1,952
Gas sold	..	3,907	..	296	..	4,204
Waste heat sold	..	502	-	-	Th. tons	502
Coke	..	(a)	..	(a)	37.1	99
Coke breeze	..	102	-	-	..	102
Non-ferrous metals and manufactures thereof	..	68	-	-	..	68
Other output	..	1,211	..	11	..	1,222
Total		86,558		7,553		94,111

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

Purchased materials and fuel
Larger establishments

TABLE 24

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Materials						
Iron ore						
Imported	6,833	13,577	1,115	2,169	7,948	15,746
Home produced	12,352	6,502	-	-	12,352	6,502
Limestone	1,972	1,214	143	116	2,114	1,330
Scrap	588.2	1,653	50.1	130	638.3	1,783
Cinder and scale					462.2	616
Manganese ore	..	6,718	..	404	351.3	1,693
All other purchased materials					..	4,814
Fuel and electricity						
Coal	312.5	799	24.3	58	336.8	858
Coke	9,529.1	35,179	796.4	2,928	10,325.5	38,107
Th. B. T. U. (kW. hrs.)	348,789		13,507		362,296	
Electricity purchased (b)		1,104		45		1,148
Electricity obtained from other works under the same ownership	Th. galls.	(a)	Th. galls.	(a)	68,633	302
Motor spirit (petrol) and deriv. fuel						
Used for road vehicles	77	7	2	-	78	7
Used for other power purposes	44	3	3	-	47	3
Other oil fuel (including creosote/pitch mixtures)	Th. therms	(a)	..	(a)	650	24
Th. therms					..	53
Gas purchased						
From public supply	62	2	-	-	62	2
From other sources	3	-	-	-	3	-
Gas obtained from other works under the same ownership	..	(a)	..	(a)	8,222	88
Mill. cu. ft.					8,777	145
All other purchased fuel	..	(a)	..	(a)	..	407
Fuel, unclassified	..	48	-	-	..	48
Total		67,790		5,887		73,677

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

(b) The total quantity of electricity consumed in England and Wales and in Scotland was 740,784,000 and 50,903,000 B.T. units, respectively.

3/A/14

METAL MANUFACTURE. COUNTRY TABLES

Employment and remuneration : Larger establishments

TABLE 25

	England and Wales			Scotland			Great Britain		
	Average number of operatives	Admin-istrative, etc., employees (a)	Total	Average number of operatives	Admin-istrative, etc., employees (a)	Total	Average number of operatives	Admin-istrative, etc., employees (a)	Total
Males									
Under 18	403	145	548	59	10	69	462	155	617
All ages	21,773	2,694	24,467	1,707	164	1,871	23,480	2,858	26,338
Females									
Under 18	-	167	167	-	4	4	-	171	171
All ages	138	745	883	11	25	36	149	770	919
Total									
Under 18	403	312	715	59	14	73	462	326	788
All ages	21,911	3,439 (b)	25,350 (b) (c)	1,718	189 (b)	1,907 (b) (c)	23,629	3,628 (b)	27,257 (b) (c)
Total remuneration	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000
	8,375	1,526	9,901	619	75	695	8,994	1,602	10,596

- (a) Number of administrative, technical and clerical employees at September 25, 1948.
 (b) No working proprietors were recorded.
 (c) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to a total of £218,000; £199,000 for England and Wales, and £17,000 for Scotland.

Monthly index of employment of operatives: Larger establishments
 (average employment in 1948 = 100)

TABLE 26

Month	Monthly index (a)			Month	Monthly index (a)		
	England and Wales	Scotland	Great Britain		England and Wales	Scotland	Great Britain
1948				1948			
January	97.2	100.4	97.7	August	99.9	98.3	99.7
February	97.9	101.4	98.4	September	101.5	100.3	101.3
March	98.4	100.1	98.7	October	102.1	99.8	101.7
April	98.0	100.3	98.3	November	102.9	99.7	102.4
May	99.9	99.9	99.9	December	102.5	100.3	102.2
June	99.8	100.2	99.9	Percentage employment in this trade covered by the index	41.9	100.0	46.2
July	99.8	99.8	99.8				

- (a) The index numbers are calculated from the number of operatives employed for one week in each month returned by larger establishments that made returns for the calendar year 1948.

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