



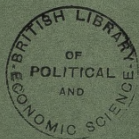
BOARD OF TRADE

FINAL REPORT
on the
CENSUS OF PRODUCTION
FOR 1948

Volume 3

Trade C

IRON FOUNDRIES



*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

IRON FOUNDRIES TRADE

THIS REPORT on the Iron Foundries Trade relates to establishments engaged wholly or mainly in the manufacture of cast iron goods of all descriptions.

The particulars shown for 1937 and 1935 include establishments mainly engaged in manufacturing steel castings. In those years iron and steel foundries were classified together and, as the firms were not required to give separate details of all steel castings made, it has not been possible to re-classify their returns in accordance with the Standard Industrial Classification.

This trade corresponds to minimum list heading 42 in the Standard Industrial Classification.

Establishments in this trade in Northern Ireland (which are excluded in 1948) accounted in 1935 for less than 1 per cent. of the net output for the United Kingdom.

27.8.57
3/C/2

METAL MANUFACTURE
IRON FOUNDRIES TRADE
Summary
Larger establishments

TABLE 1

	1948(a)	1937(b)	1935(b)
	£'000	£'000	£'000
Gross output (production)	113,366	54,306	39,418
Cost of materials and fuel used	45,468	23,708	16,121
Payment for work done on materials given out	1,048	339	205
Net output	66,850	30,259	23,092
Wages and salaries of persons employed	41,278	..	..
	No.	No.	No.
Average number of persons employed (c)	118,942(d)	129,082	110,742
	£	£	£
Net output per person employed (c)	562	234	209
	£'000	£'000	£'000
Stocks at end of year			
Finished products and work in progress	7,659	..	..
Materials and fuel	8,050	..	..
	No.	No.	No.
Number of establishments	870	..	857

- (a) Great Britain only.
(b) United Kingdom.
(c) Excluding outworkers.
(d) For an estimate of the total number of persons employed in this trade see Table 3.

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

	1948	1937	1935
	£'000	£'000	£'000
Output of firms in this trade			
Total value of sales (1948) or production (1937 and 1935)			
Principal products (see Table 8)	100,600	47,326	34,898
Other output (see Table 10)	13,501	6,980	4,520
Adjustment for changes in stocks and work in progress (see Table 14)	+ 1,475		
	115,576		
Less payment for transport by other firms	2,210	54,306	39,418
Gross output (production)	113,366	54,306	39,418
Materials and fuel used by firms in this trade			
Purchases (see Table 13)	46,940		
Adjustment for changes in stocks (see Table 14)	- 1,472	23,708	16,121
Materials and fuel used	45,468	23,708	16,121

IRON FOUNDRIES
Summary, 1948
Small firms in Great Britain

3/C/3

TABLE 2

Number of returns	195
Average number of persons employed (a)	
Males	1,182
Females	87
Total	1,269

(a) Including working proprietors.

Estimated average employment, 1948

All firms in Great Britain

TABLE 3

As returned by firms	
Employing on average more than ten persons (a)	118,942
Employing on average ten persons or less (b)	1,269
	120,211
Estimated average employment in firms not making satisfactory returns	400
Estimated average employment in all firms	120,611

(a) See Tables 1 and 15.

(b) See Table 2.

METAL MANUFACTURE

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	
	No.	£'000	£'000	No.	£'000	£'000	£'000	£
11 - 24	158	2,378	1,696	2,933	855	141	996	578
25 - 49	238	6,888	4,908	8,630	2,594	435	3,029	569
50 - 99	195	11,829	8,086	13,831	4,192	688	4,880	585
100 - 199	143	18,321	11,570	19,912	6,027	962	6,990	581
200 - 299	42	10,480	6,414	10,341	3,198	517	3,714	620
300 - 399	24	8,763	4,619	8,277	2,397	479	2,876	558
400 - 499	19	8,926	5,014	8,347	2,342	467	2,810	601
500 - 749	25	14,582	7,900	14,937	4,579	681	5,260	529
750 - 999	10	8,930	5,024	8,813	2,500	510	3,010	570
1,000 - 1,499	9	10,403	5,180	10,436	2,883	684	3,567	496
1,500 and over	7	11,866	6,437	12,485	3,398	749	4,147	516
Total	870	113,366	66,850	118,942	34,965	6,314	41,278	562

IRON FOUNDRIES

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
	No.	£'000	£'000		No.	£'000	£'000	£'000
England								
Northern	49	8,643	3,820	5.7	7,760	2,220	398	2,618
East and West Ridings of Yorkshire	119	11,641	7,203	10.8	12,816	3,540	742	4,282
North Midland	85	19,278	10,097	15.1	18,299	5,438	987	6,425
Eastern	30	6,162	3,605	5.4	6,530	1,783	446	2,229
London and South Eastern	40	4,109	2,553	3.8	3,777	1,285	214	1,499
Southern	17	538	382	0.6	721	217	39	256
South Western	21	1,075	764	1.1	1,467	460	58	518
Midland	239	30,825	19,295	28.9	32,281	10,011	1,737	11,748
North Western	136	10,944	6,902	10.3	12,527	3,657	629	4,286
Total England	736	93,216	54,621	81.7	96,178	28,611	5,251	33,862
Wales	32	3,513	1,768	2.6	3,613	1,087	161	1,247
Scotland	102	16,637	10,461	15.6	19,151	5,267	902	6,169
Great Britain	870	113,366	66,850	100.0	118,942	34,965	6,314	41,278

Analysis according to specialisation within the trade, 1948

Larger establishments in Great Britain

TABLE 6

	Establish- ments	Gross output	Sales of charac- teristic products	Net output	Persons employed	Remuneration			Net output per person employed
						Wages	Salaries	Total	
	No.	£'000	£'000	£'000	No.	£'000	£'000	£'000	£
Specialist producers of									
Soil pipes, drain pipes and rain- water pipes (in- cluding gutters of all sizes), and fittings therefor	14	1,560	1,129	1,018	2,035	588	89	677	500
Other cast iron pipes and fittings therefor	22	11,399	10,567	4,846	8,907	2,532	465	2,997	544
Cast iron stoves, grates and ranges (other than cook- ing and washing boilers) for domestic cooking and heating, and parts and fittings									
For gas, electricity and liquid fuel	14	10,409	9,268	5,080	9,486	2,360	705	3,065	536
For coal and other solid fuel	52	10,592	8,120	6,368	11,057	2,944	642	3,586	576
Remainder of the trade	768	79,405		49,539	87,457	26,541	4,412	30,953	566
Total	870	113,366		66,850	118,942	34,965	6,314	41,278	562

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

Note - The particulars for 1948 relate only to goods of cast iron (including malleable iron); those for
1937 and 1935 may include goods of cast steel.

TABLE 8

	1948(a) Sales			1937(b) Production		1935(b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th. tons	£'000	No.	Th. tons	£'000	Th. tons	£'000
Pipes and fittings, cast							
Pipes not exceeding 6 in. diameter and fittings therefor							
Soil pipes, drain pipes and rain-water pipes (including gutters of all sizes), and fittings	68.7	2,813	67	177.5	3,347	156.0	2,541
Gas pipes and fittings	25.1	556	12	75.0	736	68.7	585
Hot water pipes and fittings (excluding radiators)	3.0	143	11	16.3	250	40.8	726
Other water pipes and fittings	40.7	914	33	145.9	1,430	157.3	1,300(c)
Other pipes and fittings	161.0 ..	4,344 800	40	10.3	181	8.0	115
Pipes exceeding 6in. diameter and fittings therefor	233.6	5,267	56	300.8	2,718	240.9	1,855
Unclassified	13.2	528	18	-	-	-	-
Radiators, including parts and fittings (other than gas radiators)	18.9	829	22	38.3	950(d)	..	(e)

TABLE 8 (contd.)

	1948(a) Sales				1937(b) Production		1935(b) Production	
	Quantity		Value	Entries	Quantity	Value	Quantity	Value
	Thous.	Th. tons	£'000	No.	Th. tons	£'000	Th. tons	£'000
Cast iron stoves, grates and ranges (other than cooking and washing boilers) for domestic cooking and heating, and parts and fittings								
For gas								
Complete								
Cookers (other than heavy duty cookers and complete gas rings)	351	31.7	5,563	23				
	..	2.2	547					
	..	..	156					
Fires	184	2.3	430	17				
Radiators and other space heaters	40	0.8	244	11				
	3	..	19					
	..	..	258					
Hot water appliances	98	2.2	847	21	91.2	6,059 (f)	94.5	5,868
	13	..	100					
Parts and fittings for any of the above	..	9.9	1,249	84				
	..	..	369					
Heavy duty cooking appliances for hotels, hospitals, etc.	..	7.2	989	31				
Other cast iron stoves, etc., for gas	..	2.7	273	15				
For electricity								
Cookers	50	4.8	952	9				
	..	0.6	113					
		Th. tons						
Fires and hot water appliances	0.1	..	14	9	14.1	718	9.2	491
	..	..	50					
Parts and fittings and other cast iron stoves, etc., for electricity	4.2		394	29				
For coal and other solid fuel								
Hot water boilers	22.9		1,320	32				
Other cast iron stoves, etc. for solid fuel	95.7		9,376	137	167.2	5,032	153.4	4,232
For liquid fuel	2.7		284	11	2.6	107	2.2	117
	..	..	34					
Cooking and washing boilers, of cast iron (including portable boilers and furnace pans)	5.5		384	28	8.3	221	8.1	195
	51					

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TABLE 8 (contd.)

	1948(a) Sales			1937(b) Production		1935(b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th. tons	£'000	No.	Th. tons	£'000	Th. tons	£'000
Sanitary cisterns (flushing tanks) of cast iron	10.4	613	30	19.3	502	16.4	365
	..	100					
Baths of cast iron	48.8	3,180	15	51.2	1,535	55.8	1,472
Other sanitary cast iron goods, enamelled or not (sinks, basins, lavatories, closets, etc.)	4.1	309	36	3.0	128	3.4	108
Builders' ironmongery of cast iron, not elsewhere specified	13.8	1,082	132	10.5	353	7.5	296
				..	..	..	61
Hollow-ware of cast iron	4.5	387	26	4.7	191	2.1	106
				..	..	..	12
Piano frames	1.0	78	6	2.8	71	3.1	67
Manhole covers, ventilation and coal covers, drain gratings and frames therefor, surface boxes and the like	47.4	1,671	252	69.5	808	59.3	569
Other castings for roads and drainage	5.9	209	62	11.5	136	9.9	94
	..	29					
Ingot moulds and bottoms							
For steel	272.9	4,793	42	173.8	1,468	121.3	743(g)
For non-ferrous metals	13.8	356	38				
Railway chairs	146.7	2,175	31	70.0	468(g) (h)	91.6	388(g)
Castings for locomotives, other than axles, tyres and wheels	9.8	457	81	61.9	634(1)	67.3	528(1)
Castings for carriages and wagons, other than axles, tyres and wheels	28.9	862	67				
Rolls for rolling mills	..	(j)	..	48.9	1,386	40.2	937
Malleable iron castings, not included elsewhere							
Fittings for tubes	14.4	2,362	50	14.4	1,209	10.1	705(g)
	..	569					
Other sorts	14.2	604	35	63.4	2,619	49.3	1,823
	..	275					
Motor and cycle industry castings							
For cars and commercial vehicles (including castings for engines)	126.8	8,685	150				
For cycles and motor cycles	5.5	556	44				
	..	60					

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TABLE 8 (contd.)

	1948(a) Sales			1937(b) Production		1935(b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th. tons	£'000	No.	Th. tons	£'000	Th. tons	£'000
Iron castings for domestic appliances, not elsewhere specified (e.g., refrigerators, irons, etc.)	9.0	545	88				
Furniture trade castings, excluding bedsteads	1.0	69	19				
Marine castings	59.7	3,576	261				
Castings for prime movers for land	24.9	1,548	113				
Castings for boilers and boiler-house plant	26.6	1,305	255				
Colliery castings	23.0	1,234	260				
Electrical engineering castings	45.1	2,967	297				
Cases for small switch and fuse boxes, motor cases and similar castings	5.7	386	85	853.1	17,834(k)	636.1	11,196(k)
Castings for chemical and gas plant	18.9	1,158	220				
Textile machinery castings	34.5	2,013	283				
Agricultural implement and machinery castings	57.0	3,624	296				
	..	484					
Castings for machine tools, including jigs, tools and dies	98.4	5,432	447				
Castings for cranes, and lifting and conveying appliances	14.3	786	200				
Castings for iron and steel works plant (other than rolls)	54.9	1,908	208				
Cast iron bases for machines	2.6	165	57				
Iron castings in the rough or machined, not elsewhere specified							
Engineering castings	145.1	8,485	511				
Other descriptions	35.2	1,868	178				
	..	252					
Unclassified iron castings	91.0	5,195	353				
	..	490					

TABLE 8 (contd.)

	1948(a) Sales			1937(b) Production		1935(b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
		£'000	No.		£'000		£'000
Work done for the trade or on commission (1)		373	23		38		18
Total		113,484	..		50,929		37,513
Less sales (or production) in other trades (see Table 9)		12,883	..		3,603		2,615
Total principal products of this trade sold or made by establishments in the trade		100,600	844		47,326		34,898

- (a) Great Britain only.
 (b) United Kingdom.
 (c) Including radiators.
 (d) Described as "Radiators including parts and fittings".
 (e) Not recorded separately.
 (f) Excluding radiators.
 (g) So far as recorded separately.
 (h) Excluding railway companies which were not covered by the 1937 Inquiry. In 1935 the output of these companies was £296,000 (73,200 tons).
 (i) Output of unspecified railway material by firms classified to the Iron and Steel Foundries Trade.
 (j) For the output of rolls for rolling mills in 1948, see the Mechanical Engineering (General) Trade (Vol. 4, Trade I).
 (k) Recorded as:-

	1937		1935	
	Th. tons	£'000	Th. tons	£'000
Iron castings in the rough or machined				
Engineering castings	498.5	11,031	355.0	6,688
Other descriptions	354.6	6,603	281.1	4,508

- (1) Amount charged in 1948 and amount received in 1937 and 1935.

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

Larger establishments

TABLE 9

	1948(a) Sales			1937(b) Production		1935(b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th. tons	£'000	No.	Th. tons	£'000	Th. tons	£'000
Pipes and fittings, cast							
Pipes not exceeding 6 in. diameter and fittings therefor							
Hot water pipes and fittings (excluding radiators)	-	-	-				
Soil pipes, drain pipes and rain-water pipes (including gutters of all sizes), and fittings; gas pipes and fittings; and other water pipes and fittings	1.0	34	..	1.8	72	2.1	47
Other pipes and fittings	-	-	-				
Pipes exceeding 6 in. diameter and fittings therefor	-	-	-	2.1	63	1.4	26
Unclassified	2.6	169	11	-	-	-	-
	Thous.	Th. tons					
Cast iron stoves, grates and ranges (other than cooking and washing boilers) for domestic cooking and heating, and parts and fittings							
For gas							
Complete							
Cookers (other than heavy duty cookers and complete gas rings)	1	0.2	28				
	..	0.1	15				
	..	..	156				
Fires; radiators and other space heaters; and hot water appliances	91	1.7	748				
	13	..	100			17	
	..	..	37				
Parts and fittings for any of the above	1.4	239	..	0.3	21	0.9	52
	..	202	..				
Heavy duty cooking appliances for hotels, hospitals, etc.; and other cast iron stoves etc., for gas	1.8	172	7				

TABLE 9 (contd.)

	1948(a) Sales			1937(b) Production		1935(b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th. tons	£'000	No.	Th. tons	£'000	Th. tons	£'000
Cast iron stoves, grates and ranges (other than cooking and washing boilers) for domestic cooking and heating, and parts and fittings (contd.)							
For electricity							
Fires and hot water appliances	-	-	-				
Parts and fittings and other cast iron stoves, etc. for electricity, including cookers	0.1	7	..	0.4	20	-	1
For coal and other solid fuel	3.4	247	11	3.5	98	2.3	59
For liquid fuel	-	-	-	0.1	4	-	-
Radiators, including parts and fittings (other than gas radiators); cooking and washing boilers (including portable boilers and furnace pans); cast iron sanitary goods, including cisterns (flushing tanks) and baths; and builders' ironmongery of cast iron	3.8	293	..	2.7	75	2.7	71
	..	51	..				
Hollow-ware of cast iron	0.3	39	6	2.0	110	1.4	69
						..	12
Castings for roads and drainage, including manhole covers, ventilation and coal covers, drain gratings and frames therefor, surface boxes and the like	4.3	204	..	3.3	53	4.4	52
	..	16	..				
Ingot moulds and bottoms	16.2	356	5	-	-	-	-
Railway chairs	59.1	798	14	-	-	73.2	296
Castings for locomotives, other than axles, tyres and wheels	2.5	87	5				
Castings for carriages and wagons, other than axles, tyres and wheels	2.8	93	5				
Rolls for rolling mills	-	-	-	1.9	65	1.6	47
Malleable iron castings, not included elsewhere							
Fittings for tubes	3.2	526	..	2.8	311	0.5	25
	..	527	..				
Other sorts	0.4	32	6	1.5	61	1.6	55

TABLE 9 (contd.)

	1948(a) Sales			1937(b) Production		1935(b) Production	
	Quantity Th. tons	Value £'000	Entries No.	Quantity Th. tons	Value £'000	Quantity Th. tons	Value £'000
Motor and cycle industry castings for cars and commercial vehicles (including castings for engines)	0.7	43	5				
Iron castings for domestic appliances, not elsewhere specified (e.g., refrigerators, irons, etc.)	0.2	16	10				
Marine castings	1.0	64	12				
Castings for prime movers for land	0.4	28	..				
Castings for boilers and for boiler-house plant	0.3	11	8				
Colliery castings	0.9	51	12				
Electrical engineering castings; and cases for small switch and fuse boxes, motor cases and similar castings	1.1	82	9				
Castings for chemical and gas plant	0.3	21	9				
Textile machinery castings	0.5	28	8				
Agricultural implement and machinery castings	1.4 ..	81 4	11	156.4	2,650(c)	122.5	1,803(c)
Castings for machine tools, including jigs, tools and dies	1.0	47	12				
Castings for cranes, and lifting and conveying appliances	0.2	10	7				
Castings for iron and steel works plant (other than rolls)	2.6	86	9				
Cast iron bases for machines	-	1	..				
Iron castings in the rough or machined, not elsewhere specified							
Engineering castings	6.8	389	30				
Other descriptions	14.7 ..	849 208	67				
Unclassified iron castings	91.0 ..	5,195 490	353	-	-	-	-
Total		12,883	..		3,603		2,615

(a) Great Britain only.
(b) United Kingdom.
(c) Recorded as:-

	1937		1935	
	Th. tons	£'000	Th. tons	£'000
Iron castings in the rough or machined				
Engineering castings	14.2	274	14.3	194
Other descriptions	142.2	2,376	108.2	1,609

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

Larger establishments

TABLE 10

	1948(a) Sales		1937(b) Production		1935(b) Production	
	Quantity Th. tons	Value £'000	Quantity Th. tons	Value £'000	Quantity Th. tons	Value £'000
Fencing materials (other than fencing wire) of cast or wrought iron	0.2	18	3.5	70	2.6	50
Railway material of iron and steel, including axles, tyres and wheels but excluding other iron castings for locomotives, carriages and wagons and railway chairs	21.1	655	17.3	270(c)	13.6	114(c)
Doors and window frames and casements of iron and steel	1.1	75	4.0	188	2.7	119(d)
Cooking and washing boilers and stoves and fires for domestic cooking and heating, other than of cast iron	2.8 ..	652 588	2.5	325(e)	3.8	500(e)
Gears and gear wheels	3.2	195	4.2	188	..	387
Other machinery and appliances (including parts and accessories)	..	2,473	..	394	..	..
Rolls for metal rolling mills, of iron	7.0	313	-	-	-	-
Rolls for machinery other than metal working (sugar, flour, rubber, etc. mills), of iron	3.7	165	-	-	-	-
Castings of non-alloy steel	19.1	1,698	59.6	2,494	45.1	1,465
Castings of alloy steel	2.2	412	..	..	..	..
Iron and steel forgings	0.5	33	3.9	120	1.8 ..	55 6
Bedsteads of iron, complete and parts, including finished tubes	1.6	86	..	..	..	..
Hollow-ware of wrought iron and steel	1.3	81	..	..	..	..
Hand tools and implements	..	352	..	..	..	..
Iron or steel fabricated (staircases, etc.) and temporary prefabricated steel house framework and frame sections of steel	3.6 ..	249 61	..	389	..	340
Stampings and pressings in the rough or machined, of iron and steel	0.4 ..	33 16	..	..	..	..

TABLE 10 (contd.)

	1948(a) Sales		1937(b) Production		1935(b) Production	
	Quantity	Value	Quantity	Value	Quantity	Value
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Refined pig iron	48.9	587				
Other manufactures of iron and steel	..	703				
Castings of brass and other alloys of copper	6.1	1,537	5.8	676	3.9	378
Castings, stampings and pressings of aluminium	1.1	314	0.6	72	0.3	33(f)
Other manufactures of non-ferrous metals	1.9	343	..	282	..	128
Other goods	..	181	..	212	..	171
Scrap metal sold						
Iron and steel	47.5	145	50.5	127	36.6	67
Other, including metallic wastes, residues, etc.	1.0	37	2.1	36	1.3	23
		Amount charged		Amount received		Amount received
Work done		£'000		£'000		£'000
Iron and steel structural work (g) (h)		100		547		404
General and jobbing engineering		826		483		248
Other work		52		107		32
Total		13,501		6,980		4,520

- (a) Great Britain only.
 (b) United Kingdom.
 (c) Points, switches and crossings, wheels and axles, spikes, sleepers, fishplates and soleplates.
 (d) Metal casements and window frames only.
 (e) Stoves of sheet iron, for domestic cooking and heating only.
 (f) Castings only.
 (g) Carried out in Great Britain (1948) or in the United Kingdom (1937 and 1935).
 (h) 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 £98,000 for 1948; similar information is not available for 1937 and 1935.

Analysis of sales, 1948

Larger establishments in Great Britain

TABLE 11

	Sales	Percentage of total sales
	£'000	
Sales (or transfers) to other organisations under the same control		
Productive works	12,355	11.0
Export sales organisations (including branches abroad)	161	0.1
Other wholesale or selling organisations	3,417	3.0
Retail shops, etc.	9	-
Total sales (or transfers) to other organisations under the same control	15,941	14.2
Sales to independent buyers		
Exports invoiced directly overseas	3,922	3.5
Exports invoiced to Crown Agents and purchasing houses in this country of individual firms and governments abroad	1,723	1.5
His Majesty's Government and Local Authorities (other than productive establishments)	6,958	6.2
Manufacturers, repairers, builders, mines, public utilities, and transport and other productive undertakings	62,525	55.5
Wholesalers, merchants and other agents for resale	17,062(a)	15.1
Retailers, including multiple shops, caterers and N.A.A.F.I., for resale	3,892	3.5
Other businesses (including farmers) and institutions of all kinds	505	0.4
Members of the public, including employees	125	0.1
Total sales to independent buyers	98,711	85.8
Total	112,652(b)	100.0

- (a) Of this total £12,846,000 was recorded as divided between £2,138,000 for export and £10,708,000 for other sales.
 (b) This total represents the total shown in Table 23 (£114,102,000), less the total value of work done (£1,351,000) and the value of goods used by firms in iron and steel structural work carried out in Great Britain and recorded as their output (£98,000).

Production, exports and imports
of certain principal products (a)

Note - The figures of sales in 1948 relate to goods of cast iron (including malleable iron); the figures of production for sale in 1937 may include goods of cast steel. The oversea trade figures (except those for "other sanitary cast iron goods") relate to goods of iron and steel.

TABLE 12

	Production (b) (c)		Exports (d)		Retained imports (e)	
	Th. tons	Th. tons	Th. tons	Th. tons	Th. tons	Th. tons
Pipes and fittings, cast						
Pipes not exceeding 6 in. diameter and fittings therefor						
Soil pipes, drain pipes and rain-water pipes (including gutters of all sizes), and fittings (f) (g)	{ 1948 1937	68.7 177.5	8.6 14.1	- -	- -	- -
Gas pipes and fittings (f)	{ 1948 1937	25.1 75.0	1.8 1.9	- -	- 0.4	- -
Other water pipes (including hot water pipes but excluding radiators) and fittings (f)	{ 1948 1937	43.7 162.2	36.3 34.4	- -	- -	.. -
Other pipes and fittings (f)	{ 1948 1937	190.6 (h) 10.3	16.6 7.1	- -	0.1 0.5	- -
Fittings for pipes not exceeding 6 in. diameter	{ 1948 1937	.. ..	2.4 3.3	- -	0.6 0.7	- -
Pipes exceeding 6 in. diameter and fittings therefor	{ 1948 1937	233.6 300.8	61.0 (1) 47.7 (1)	- -	0.2 (1) 0.2 (1)	- -
Total pipes and fittings, cast	{ 1948 1937	574.8 (h) (j) 725.8	126.8 108.5	- -	1.0 1.9	- -
		£'000	£'000		£'000	
Radiators, including parts and fittings (k)						
For gas	1948	520 (l) (m)	19 (m)	-	..	-
Other	1948	829	221	-	3	-
Total radiators, including parts and fittings	{ 1948 1937	1,349 (m) 950	240 (m) 91	- -	.. 32	- -
Cast iron stoves, grates and ranges (other than cooking and washing boilers) for domestic cooking and heating, and parts and fittings		Th. tons	Th. tons		Th. tons	
For gas						
Heavy duty cooking appliances for hotels, hospitals, etc.	1948	7.2	0.1	-	-	-
Other cookers, stoves, etc., except radiators and other space heaters	1948	37.4 (h) (l)	2.3	-	-	-
Fires, complete	1948	2.3	0.5	-	-	-
Hot water appliances	1948	2.5 (h) (l)	0.1	-	-	-
Total for gas (including parts and fittings)	{ 1948 1937	62.1 (h) 91.2	3.0 2.6	- -	- 0.1	- -

TABLE 12 (contd.)

	Production (b) (c)		Exports (d)		Retained imports (e)	
	Th. tons	Th. tons	Th. tons	Th. tons	Th. tons	Th. tons
Cast iron stoves, grates and ranges (other than cooking and washing boilers) for domestic cooking and heating, and parts and fittings (contd.)						
For coal and other solid fuel	{ 1948 1937	118.5 167.2	9.6 8.0	- -	0.1 0.6	- -
For liquid fuel	{ 1948 1937	4.0 (h) 2.6	1.9 0.3	- -	- 0.2	- -
Cooking and washing boilers of cast iron (including portable boilers and furnace pans)	{ 1948 1937	6.3 (h) 8.3	0.3 (n) 1.5	- -	.. -	- -
Sanitary cisterns (flushing tanks) of cast iron	{ 1948 1937	12.1 (h) 19.3	1.6 3.6	- -	- -	- -
Baths of cast iron (o)	{ 1948 1937	48.8 51.2	5.4 4.0	- -	- 8.3	- -
Other sanitary cast iron goods, enamelled or not (sinks, basins, lavatories, closets, etc.)	{ 1948 1937	4.1 3.0	0.8 0.4	- -	- 0.1	- -
Hollow-ware of cast iron	{ 1948 1937	4.5 4.7	2.8 5.3	- -	- 0.4	- -
Manhole covers, ventilation and coal covers, drain gratings and frames therefor, surface boxes and the like	{ 1948 1937	47.4 69.5	1.6 1.8	- -	.. -	- -
Malleable cast iron fittings for tubes	{ 1948 1937	18.0 (h) 14.4	2.8 2.3	- -	- 2.1	- -

- (a) Figures of sales (or production) refer only to larger establishments in Great Britain (1948) or the United Kingdom (1937). All recorded exports from and imports into the United Kingdom are given in the table. The figures, therefore, are not strictly comparable.
- (b) Sales in 1948 and production for sale in 1937.
- (c) Including sales (or production) by establishments classified to other trades.
- (d) Valued f.o.b.
- (e) Valued c.i.f.
- (f) The oversea trade figures are exclusive of fittings.
- (g) The oversea trade figures relate to "Rainwater and soil pipes (including gutters)."
- (h) Partly estimated.
- (i) Including gutters.
- (j) Including 13,200 tons of unclassified pipes and fittings, cast.
- (k) The oversea trade figures for both years include boilers for central heating, except, for 1948 only, sectional boilers for steam.
- (l) Excluding parts and fittings.
- (m) Including other space heaters for use with gas.
- (n) Excluding boilers for use with gas.
- (o) The oversea trade figures relate to baths of iron and steel, other than wrought enamelled baths of a description commonly used for domestic purposes.

METAL MANUFACTURE
Purchased materials and fuel
Larger establishments

TABLE 13

	1948(a)		1937(b)		1935(b)	
	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						
Pig iron	1,576.5	15,492	1,762.7	8,240	1,446.8	5,134
Iron and steel scrap	725.2	3,528	827.1	3,160	644.9	1,670
Steel ingots	3.3	29	4.6	34	..	(c)
Ferro-alloys						
Ferro-silicon	5.7	179				
Ferro-manganese	1.6	40				
Ferro-chrome	0.7	51				
Other ferro-alloys	2.2	100				
Alloying materials	1.2	106				
Slag making materials or fluxes	54.4	73				
Steel making refractories	3.8	16				
	..	2				
Soda ash	1.7	16				
Moulding sand	677.7	662				
Organic bonds	16.6	669	..	9,694	..	7,620(d)
Inorganic bonds	12.5	201				
	..	21				
Moulding boxes	3.2	90				
	..	139				
Firebricks and similar refractories	49.9	210				
	..	198				
Grinding wheels	0.6	54				
	..	205				
Welding rods	0.1	8				
	..	18				
Packing materials	..	513				
All other purchased materials	..	17,492				
Unclassified materials	..	1,117	-	-	-	-

TABLE 13 (contd.)

	1948 (a)		1937 (b)		1935 (b)	
	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
Fuel and electricity						
Coal	337.2	907	469.1	487	424.3	386
Coke	628.4	2,929	590.4	1,108	472.8	726
Electricity purchased (e)	Th. B.T.U. (kW. hrs.)		Th. B.T.U. (kW. hrs.)		Th. B.T.U. (kW. hrs.)	
From public supply	225,232	958				
From other sources	5,871	25				
Electricity obtained from other works under the same ownership	26,768	103	217,801	603	151,937	451
Motor spirit (petrol) and deriv. fuel	Th. galls.		Th. galls.		Th. galls.	
Used for road vehicles	1,038	102	..	(c)	..	(c)
Used for other power purposes	356	17				
Other oil fuel (including creosote/pitch mixtures)	6,453	249	7,609	135(f)	7,860	134(f)
Gas purchased	Th. therms					
From public supply	8,123	299				
	Th. cu. ft.					
	148,288	17				
From other sources	Th. therms					
	1,466	20				
	Th. cu. ft.					
	200,309	11	..	247	..	(c)
Gas obtained from other works under the same ownership	Th. therms					
	23	1				
	Th. cu. ft.					
	1,067,622	26				
	..	7				
All other purchased fuel	..	40				
Total		46,940		23,708		16,121

(a) Great Britain only.

(b) United Kingdom.

(c) Not recorded separately.

(d) Including fuel not specified separately.

(e) The total quantity of electricity consumed in 1948 was 268,824,000 B.T. units, including 10,953,000 generated in the same works.

(f) Described as "Heavy fuel oil".

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				
Soil pipes, drain pipes and rain-water pipes (including gutters of all sizes), not exceeding 6 in. diameter, and fittings therefor.	5.3	125	6.8	166
Pipes exceeding 6 in. diameter and fittings therefor	34.8	586	36.6	696
Cast iron stoves, grates and ranges (other than cooking and washing boilers) for domestic cooking and heating, and parts and fittings				
For gas	2.2	154	3.2	230
For coal and other solid fuel	9.5	299	10.0	380
	..	129	..	156
Bathes of cast iron	0.8	27	1.3	49
Ingot moulds and bottoms	5.0	63	6.4	92
Other finished products	..	1,536	..	1,943
Work in progress		2,982		3,592
Unclassified finished products and work in progress		282		354
Total finished products and work in progress		6,184		7,659
Materials and fuel				
Pig iron	133.6	1,205	140.1	1,366
Iron and steel scrap	88.1	396	109.2	510
Coal	36.0	86	36.1	92
Coke	49.8	212	62.4	281
Other descriptions of materials and fuel	..	4,242	..	4,917
Unclassified materials and fuel	..	436	..	885
Total materials and fuel		6,579		8,050

Employment and remuneration (a)

Larger establishments

TABLE 15

	Average number of operatives			Administrative technical and clerical employees (b)			Total		
	1948(c)	1937(d)	1935(d)	1948(c)	1937(d)	1935(d)	1948(c)	1937(d)	1935(d)
Males									
Under 18	5,134	14,509	12,054	519	1,040	708	5,653	15,549	12,762
All ages	94,751	110,297	94,296	10,046	9,125	8,109	104,797	119,422	102,405
Females									
Under 18	848	2,276	1,939	947	690	386	1,795	2,966	2,325
All ages	9,475	6,695	5,907	4,498	2,965	2,430	13,973	9,660	8,337
Total									
Under 18	5,982	16,785	13,993	1,466	1,730	1,094	7,448	18,515	15,087
All ages	104,226	116,992	100,203	14,544 (e)	12,090	10,539	118,770 (e) (f) (g)	129,082	110,742
	£'000			£'000			£'000		
Total remuneration	23,965	..	..	6,314	..	..	41,278	..	..

(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	47 males	809 females
Other workers	275 males	99 females

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

(c) Great Britain only.

(d) United Kingdom.

(e) There were, in addition, 172 working proprietors (165 males and 7 females) in 1948. Working proprietors are included in the 1937 and 1935 figures.

(f) The employer's share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to £954,000.

(g) 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	224	
Maintenance and repair of firms' buildings, but not plant	631	
Research work not directly connected with current production however charged	47	74

In addition to the employees in the above table the firms in this trade employed 6 male and 24 female outworkers in 1948, the amount paid to them being £2,000. Similar information is not available for 1937 and 1935.

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					
		Amount paid	Percentage of annual remuneration paid in				
			First quarter	Second quarter	Third quarter	Fourth quarter	Year
	£'000	£'000					
Wages and salaries of							
Operatives	34,965	17,769	24.0	24.9	24.3	26.8	100.0
Administrative, technical and clerical employees	6,314	3,236	23.7	24.7	24.6	26.9	100.0
Total	41,278	21,004	24.0	24.8	24.4	26.8	100.0

(a) Including bonus and commission payments.

TABLE 17 - Payments for work done on materials given out, 1948
Larger establishments in Great Britain

The total amount paid for work done on materials given out was £1,048,000.

Payments for certain services, 1948
Larger establishments in Great Britain

TABLE 18

	Amount paid
	£'000
Repair and maintenance	
Of buildings	400
Of plant, machinery and vehicles	619
Unclassified	783
Hire of plant, machinery and vehicles	155
Advertising and market research	
Advertising in newspapers, magazines and periodicals	79
Other advertising services (poster display, despatch of circulars, etc.) and market research	28
Unclassified	129
Payments made for research work	
To research associations	24
To universities, institutions, academic bodies and similar agencies	10
To other commercial concerns	67
Postage, telephone, telegrams and cables	208
Commercial insurance premiums	357
Rates (excluding water rates) payable in the year	142

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

TABLE 19

	Acquisitions		Disposals
	New	Second-hand	
	£'000	£'000	£'000
Plant and machinery	2,458	282	87
Vehicles	219	78	38
Total	2,676	360	125

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)		932
2. Existing buildings and land (b)		
(1) Capital cost of freeholds bought	125	
Estimated capital value of		
(11) Rented property newly occupied in the year (c)	79	
(111) Leasehold buildings and land newly occupied in the year	95	
Total of heading 2		299
Total of headings 1 and 2		1,231
3. Existing buildings and land relinquished (d)		
(1) Selling value of freeholds sold	2	
(11) Estimated value of other properties relinquished	18	
Total of heading 3		20
4. Headings 1 and 2 less heading 3		1,211

- (a) Excluding site value which, where appropriate, is included in heading 2(1).
 (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.

1948

Summary

Larger establishments

TABLE 21

	England	Wales	Scotland	Great Britain
	£'000	£'000	£'000	£'000
Gross output (production)	93,216	3,513	16,637	113,366
Cost of materials and fuel used	37,742	1,719	6,007	45,468
Payment for work done on materials given out	853	26	169	1,048
Net output	54,621	1,768	10,461	66,850
Wages and salaries of persons employed	33,862	1,247	6,169	41,278
	No.	No.	No.	No.
Average number of persons employed (a)	96,178	3,613	19,151	118,942
	£	£	£	£
Net output per person employed (a)	568	489	546	562
Stocks at end of year	£'000	£'000	£'000	£'000
Finished products and work in progress	6,592	145	921	7,659
Materials and fuel	6,795	211	1,045	8,050
	No.	No.	No.	No.
Number of establishments	736	32	102	870

(a) Excluding outworkers.

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

	England	Wales	Scotland	Great Britain
	£'000	£'000	£'000	£'000
Output of firms in this trade				
Total value of sales (see Table 23)	93,735	3,543	16,824	114,102
Adjustment for changes in stocks and work in progress	+ 1,272	+ 12	+ 191	+ 1,475
Less payment for transport by other firms	1,791	42	377	2,210
Gross output (production)	93,216	3,513	16,637	113,366
Materials and fuel used by firms in this trade				
Purchases (see Table 24)	38,944	1,788	6,207	46,940
Adjustment for changes in stocks	- 1,203	- 70	- 200	- 1,472
Materials and fuel used	37,742	1,719	6,007	45,468

Summary
Small firms

TABLE 22

	England	Wales	Scotland	Great Britain
Number of returns	174	7	14	195
Average number of persons employed (a)				
Males	1,054	48	80	1,182
Females	80	2	5	87
Total	1,134	50	85	1,269

(a) Including working proprietors.

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						
Pipes and fittings, cast						
Pipes not exceeding 6 in. diameter and fittings therefor						
Hot water pipes and fittings (excluding radiators)	..	(a)	..	(a)	3.0	143
Soil pipes, drain pipes and rain-water pipes (including gutters of all sizes), and fittings; gas pipes and fittings; and other water pipes and fittings	94.0	2,655	39.5	1,593	133.5	4,248
Other pipes and fittings	153.3	3,995	7.7	348	161.0	4,344
	..	800			..	800
Pipes exceeding 6 in. diameter and fittings therefor	229.4	5,079	4.1	187	233.5	5,267
Unclassified	..	(a)	..	(a)	10.6	360
Cast iron stoves, grates and ranges (other than cooking and washing boilers) for domestic cooking and heating, and parts and fittings						
For gas						
Complete						
Cookers (other than heavy duty cookers and complete gas rings)	..	(a)	..	(a)	350	31.5
					..	2.1
Fires; radiators and other space heaters; and hot water appliances	..	(a)	..	(a)	231	3.5
					3	..
				
Parts and fittings for any of the above	7.5	839	1.0	172	8.5	1,010
	..	166			..	166

TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Principal products (contd.)						
Cast iron stoves, grates and ranges (other than cooking and washing boilers) for domestic cooking and heating, and parts and fittings (contd.)						
For gas (contd.)						
Heavy duty appliances for hotels, hospitals, etc., and other cast iron stoves etc., for gas	5.7	816	2.3	274	8.0	1,091
For electricity						
Fires and hot water appliances	..	(a)	..	(a)	0.1 ..	14 50
Parts and fittings and other cast iron stoves, etc., for electricity, including cookers	8.7	1,269	1.0	183	9.6	1,452
For coal and other solid fuel	66.6	6,033	46.5	4,417	115.1	10,450
For liquid fuel	..	(a)	..	(a)	2.7 ..	284 34
Radiators, including parts and fittings (other than gas radiators); cooking and washing boilers (including portable boilers and furnace pans); cast iron sanitary goods, including cisterns (flushing tanks) and baths; and builders ironmongery of cast iron	72.8 ..	4,453 100	24.9	1,651	97.7 ..	6,104 100
Hollow-ware of cast iron	..	(a)	..	(a)	4.2	348
Piano frames	1.0	78	-	-	1.0	78
Castings for roads and drainage, including manhole covers, ventilation and coal covers, drain gratings and frames therefor, surface boxes and the like	41.3 ..	1,339 12	7.6 ..	337 1	49.0 ..	1,676 12
Ingot moulds and bottoms	..	(a)	..	(a)	270.5	4,793
Railway chairs	..	(a)	..	(a)	87.6	1,377
Castings for locomotives, other than axles, tyres and wheels	6.0	287	1.2	82	7.3	370
Castings for carriages and wagons, other than axles, tyres and wheels	..	(a)	..	(a)	26.1	768

TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Principal products (contd.)						
Malleable iron castings, not included elsewhere						
Fittings for tubes	11.2 ..	1,836 42	-	-	11.2 ..	1,836 42
Other sorts	13.8 ..	571 275	-	-	13.8 ..	571 275
Motor and cycle industry castings						
For cars and commercial vehicles (including castings for engines)	126.0	8,637	0.1	4	126.1	8,642
For cycles and motor cycles	5.5 ..	556 60	-	-	5.5 ..	556 60
Iron castings for domestic appliances, not elsewhere specified (e.g., refrigerators, irons, etc.)	8.0	475	0.8	54	8.8	529
Furniture trade castings, excluding bedsteads	1.0	69	-	-	1.0	69
Marine castings	29.0	1,747	29.7	1,765	58.7	3,512
Castings for prime movers for land	23.6	1,449	0.8	71	24.5	1,520
Castings for boilers and boiler-house plant	21.9	1,053	4.5	240	26.4	1,294
Colliery castings	17.5	961	4.6	222	22.1	1,183
Electrical engineering castings; and cases for small switch and fuse boxes, motor cases and similar castings	45.7	3,012	4.1	259	49.7	3,271
Castings for chemical and gas plant	17.1	1,034	1.4	102	18.6	1,136
Textile machinery castings	32.6	1,902	1.4	83	34.0	1,985
Agricultural implement and machinery castings	50.8 ..	3,275 480	4.8	268	55.6 ..	3,544 480
Castings for machine tools, including jigs, tools and dies	92.2	5,104	5.2	282	97.4	5,385
Castings for cranes, and lifting and conveying appliances	11.5	658	2.6	117	14.1	776

TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Principal products (contd.)						
Castings for iron and steel works plant (other than rolls)	47.2	1,655	5.2	166	52.4	1,821
Cast iron bases for machines	..	(a)	..	(a)	2.6	163
Iron castings in the rough or machined, not elsewhere specified						
Engineering castings	125.9	7,316	12.5	780	138.4	8,096
Other descriptions	17.3	812	3.2	207	20.5	1,019
	..	43			..	43
Work done for the trade or on commission (b)		360		13		373
Total principal products		84,703		15,898		100,600
Other output						
Fencing materials (other than fencing wire) of cast or wrought iron	0.2	15	-	3	0.2	18
Railway material of iron and steel (other than railway chairs, and castings for locomotives, carriages and wagons (except axles, tyres and wheels) of iron)	..	(a)	..	(a)	21.1	655
Doors and window frames and casements of iron and steel	0.7	48	0.4	26	1.1	75
Cooking and washing boilers and stoves and fires for domestic cooking and heating, other than of cast iron	2.8	652	-	-	2.8	652
	..	588			..	588
Gears and gear wheels	..	(a)	..	(a)	3.2	195
Other machinery and appliances (including parts and accessories)	..	2,414	..	58	..	2,473
Rolls for metal rolling mills, of iron	..	(a)	..	(a)	7.0	313
Rolls for machinery other than metal working (sugar, flour, rubber, etc. mills), of iron	1.5	85	2.2	80	3.7	165
Castings of non-alloy steel	17.6	1,522	1.5	177	19.1	1,698
Castings of alloy steel	2.2	412	-	-	2.2	412
Iron and steel forgings	..	(a)	..	(a)	0.5	33

TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Other output (contd.)						
Bedsteads of iron, complete and parts, including finished tubes	1.6	86	-	-	1.6	86
Hollow-ware of wrought iron and steel	1.3	81	-	-	1.3	81
Hand tools and implements	..	(a)	..	(a)	..	352
Iron or steel fabricated (staircases, etc.) and temporary prefabricated steel house frame-work and frame sections of steel	1.2	74	2.4	175	3.6	249
	..	15	..	45	..	61
Stampings and pressings in the rough or machined, of iron and steel	..	(a)	..	(a)	0.4	33
					..	16
Refined pig iron	48.9	587	-	-	48.9	587
Other manufactures of iron and steel	..	(a)	..	(a)	..	703
Castings of brass and other alloys of copper	5.6	1,387	0.6	149	6.1	1,537
Castings, stampings and pressings of aluminium	1.1	310	-	4	1.1	314
Other manufactures of non-ferrous metals	1.9	343	-	-	1.9	343
	..	489			..	489
Other goods	..	173	..	8	..	181
Scrap metal sold						
Iron and steel	42.4	127	5.1	19	47.5	145
Other, including metallic wastes, residues, etc.	0.9	36	-	1	1.0	37
	..	33			..	33
Work done (b)						
Iron and steel structural work (c)		95		5		100
General and jobbing engineering		795		31		826
Other work		7		46		52
Total		97,278		16,824		114,102

- (a) Owing to the risk of disclosure of information relating to individual firms, separate figures cannot be given.
(b) Amount charged.
(c) 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 £98,000 for Great Britain; £81,000 for England and Wales, and £17,000 for Scotland.

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						
Pig iron	1,357.9	13,276	218.6	2,216	1,576.5	15,492
Iron and steel scrap	639.9	3,082	85.3	446	725.2	3,528
Steel ingots	..	(a)	..	(a)	3.3	29
Ferro-alloys						
Ferro-silicon	5.1	163	0.6	16	5.7	179
Ferro-manganese	1.5	37	0.1	4	1.6	40
Ferro-chrome	0.7	51	-	1	0.7	51
Other ferro-alloys	1.8	92	0.4	8	2.2	100
Alloying materials	1.1	105	-	2	1.2	106
Slag making materials or fluxes	47.9	52	8.5	21	56.4	73
Steel making refractories	3.6	15	0.2	1	3.8	16
	..	1	..	1	..	2
Soda ash	1.7	16	-	-	1.7	16
Moulding sand	602.2	570	75.5	92	677.7	662
Organic bonds	15.0	602	1.6	67	16.6	669
Inorganic bonds	11.7	186	0.8	15	12.5	201
	..	21	..	1	..	21
Moulding boxes	2.8	79	0.5	10	3.2	90
	..	134	..	6	..	139
Firebricks and similar refractories	42.4	154	7.5	57	49.9	210
	..	172	..	26	..	198
Grinding wheels	0.6	47	-	7	0.6	54
	..	185	..	20	..	205
Welding rods	0.1	6	-	2	0.1	8
	..	15	..	3	..	18
Packing materials	..	386	..	127	..	513
All other purchased materials	..	15,157	..	2,335	..	17,492
Unclassified materials	..	1,110	..	6	..	1,117
Fuel and electricity						
Coal	291.3	782	45.9	125	337.2	907
Coke	553.2	2,577	75.2	352	628.4	2,929

TABLE 24 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. B.T.U. (KW. hrs.)	£'000	Th. B.T.U. (KW. hrs.)	£'000	Th. B.T.U. (KW. hrs.)	£'000
Fuel and electricity (contd.)						
Electricity purchased (b)						
From public supply	202,835	848	22,397	110	225,232	958
From other sources	5,871	25	-	-	5,871	25
Electricity obtained from other works under the same ownership	..	(a)	..	(a)	26,768	103
Motor spirit (petrol) and deriv. fuel	Th. galls.		Th. galls.		Th. galls.	
Used for road vehicles	918	91	120	11	1,038	102
Used for other power purposes	..	(a)	..	(a)	356	17
Other oil fuel (including creosote/pitch mixtures)	5,169	202	1,284	47	6,453	249
Gas purchased	Th. therms		Th. therms		Th. therms	
From public supply	7,243 Th. cu.ft. 145,602	272 16	880 Th. cu.ft. 2,686	27 -	8,123 Th. cu.ft. 148,288	299 17
From other sources	1,466 Th. cu.ft. 200,309	20 11	-	-	1,466 Th. cu.ft. 200,309	20 11
Gas obtained from other works under the same ownership	..	(a)	..	(a)	23 Th. cu.ft. 1,067,622	1 26 7
All other purchased fuel	..	27	..	13	..	40
Total		40,733		6,207		46,940

(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 Great Britain was 268,824,000 B.T. units including 10,953,000 generated in the same works. Owing to the risk of disclosure of information relating to individual firms, separate figures for England and Wales and for Scotland cannot be given.

Employment and remuneration
Larger establishments

TABLE 25

	England and Wales			Scotland			Great Britain		
	Average number of operatives	Administrative, technical and clerical employees (a)	Total	Average number of operatives	Administrative, technical and clerical employees (a)	Total	Average number of operatives	Administrative, technical and clerical employees (a)	Total
Males									
Under 18	4,022	424	4,446	1,112	95	1,207	5,134	519	5,653
All ages	79,070	8,436	87,506	15,681	1,610	17,291	94,751	10,046	104,797
Females									
Under 18	722	757	1,479	126	190	316	848	947	1,795
All ages	8,336	3,808	12,144	1,139	690	1,829	9,475	4,498	13,973
Total									
Under 18	4,744	1,181	5,925	1,238	285	1,523	5,982	1,466	7,448
All ages	87,406	12,244(b)	99,650 (b) (c)	16,820	2,300(b)	19,120 (b) (c)	104,226	14,544(b)	118,770 (b) (c)
Total remuneration	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000
	29,698	5,411	35,109	5,267	902	6,169	34,965	6,314	41,278

(a) Number at September 25, 1948.

(b) There were, in addition, 172 working proprietors (165 males and 7 females) in Great Britain; 134 males and 7 females in England and Wales, and 31 males in Scotland.)

(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 £954,000; £797,000 for England and Wales, and £156,000 for Scotland.

In addition to the employees in the above table the firms in this trade employed outworkers whose numbers and remuneration are set out below.

	Average number of outworkers employed			Total amount paid to outworkers
	Males	Females	Total	
England and Wales	6	24	30	£'000
Scotland	-	-	-	-
Great Britain	6	24	30	2

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	97.9	101.3	98.6	August	100.6	99.1	100.3
February	98.4	101.7	99.1	September	100.4	99.0	100.1
March	98.7	102.1	99.5	October	100.8	98.9	100.4
April	99.5	102.1	100.1	November	101.5	98.7	100.9
May	99.9	100.6	100.1	December	101.1	98.3	100.5
June	100.4	100.3	100.4	Percentage employment in this trade covered by the index			
July	100.6	97.9	100.1		48.5	67.1	51.5

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

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