

# IRON AND STEEL TRADES

## GENERAL REPORT

Table I A.—General summary

Trade (1)	Number of establishments* (2)	Gross output (selling value of goods made and value of work done) (3)	Cost of materials used and amount paid for work given out (4)	Net output (excess of col. (3) over col. (4)) (5)	Average number of persons employed (excluding out-workers) (6)	Net output per person employed (7)	
	No.	£'000	£'000	£'000	No.	£	
Iron and Steel (Blast Furnaces) ...	1935	48	21,047	16,964	4,083	15,815	258
	1930	69	23,820	19,872	3,948	19,362	204
	1924	92	36,572	31,315	5,257	26,970	195
Iron and Steel (Smelting and Rolling)	1935	318	101,792	68,129	33,663	135,274	249
	1930	343	84,366	58,789	25,577	136,417	187
	1924	345	121,745	89,664	32,081	157,947	203
Iron and Steel Foundries ...	1935	847	39,018	16,160	22,858	109,643	208
	1930	832	29,465	12,404	17,061	91,541	186
	1924†	801	31,046	14,385	16,661	84,302	198
Tinplate ...	1935	66	13,925	9,011	4,914	21,985	224
	1930	77	15,693	10,605	5,088	25,271	201
	1924	84	22,557	16,185	6,372	27,968	228
Hardware, Hollow-ware, Metallic Furniture and Sheet Metal	1935	1,165	35,931	17,925	18,006	97,778	184
	1930†	978	28,894	14,070	14,824	82,917	179
	1924	896	23,333	11,728	11,605	66,868	174
Chain, Nail, Screw and Miscellaneous Forgings ...	1935	570	21,357	10,722	10,635	56,783	187
	1930†	538	16,465	8,416	8,049	47,414	170
	1924†	475	14,395	7,490	6,905	37,692	183
Wrought Iron and Steel Tube ...	1935	94	16,589	9,666	6,923	28,387	244
	1930	78	13,252	7,598	5,654	25,796	219
	1924	62	13,760	8,378	5,382	24,845	217
Wire ...	1935	220	15,723	9,953	5,770	23,427	246
	1930	212	13,430	9,204	4,226	21,898	193
	1924	214	17,236	11,202	6,034	24,873	243
Tool and Implement ...	1935	321	7,955	3,028	4,927	25,508	193
	1930†	302	6,272	2,568	3,704	22,376	166
	1924	318	8,429	3,591	4,838	24,836	195
Cutlery ...	1935	148	3,623	1,245	2,378	10,809	220
	1930†	139	3,067	1,300	1,767	10,281	172
	1924	162	3,101	1,467	1,634	9,892	165
Needle, Pin and Metal Smallwares...	1935	105	3,203	1,139	2,064	12,462	166
	1930	94	2,645	992	1,653	9,460	175
	1924	105	2,501	1,059	1,442	10,328	140
Small Arms ...	1935	31	422	135	287	1,399	205
	1930	33	485	175	310	1,366	227
	1924	33	624	250	374	2,100	178
Unclassified Trades (Northern Ireland)	1930	11	58	21	37	229	162
	1924	84	146	87	59	291	203
TOTAL—UNITED KINGDOM	1935	3,933	280,585	164,077	116,508	539,270	216
	1930	3,706	237,912	146,014	91,898	494,328	186
	1924§	3,671	295,445	196,801	98,644	498,912	198

Trade		Number of establishments*	Gross output (selling value of goods made and value of work done)	Cost of materials used and amount paid for work given out	Net output (excess of col. (3) over col. (4))	Average number of persons employed (excluding out-workers)	Net output per person employed
(1)		(2)	(3)	(4)	(5)	(6)	(7)
England and Wales ...	1935	3,619	£'000 254,722	£'000 149,422	£'000 105,300	No. 486,658	£ 216
	1930	3,118†	210,263	129,161	81,102	437,166	186
	1924	3,252	261,117	174,064	87,053	437,274	199
Scotland ...	1935	299	25,747	14,600	11,147	52,204	213
	1930	280†	27,549	16,819	10,730	56,743	180
	1924	318	34,118	22,618	11,500	61,109	188
Northern Ireland	1935	15	116	55	61	408	150
	1930	17†	100	34	66	419	158
	1924§	101	210	119	91	529	172

\* Number of returns for 1924.

† Great Britain only.

§ Including all firms in Northern Ireland.

‡ Number of returns.

Table I B.—Firms employing not more than ten persons on the average

Trade	Firms furnishing information				Total, including firms not furnishing returns		
	Number of returns received	Average number of persons employed			Number	Estimated number of persons employed	
		Males	Females	Total			
Iron and Steel (Blast Furnaces) ...	—	—	—	—	—	—	
Iron and Steel (Smelting and Rolling) ...	1935	22	125	6	131	22	131
	1930	24	125	7	132	51	280
	1924	24	132	6	138	46	270
Iron and Steel Foundries ...	1935	393	2,108	66	2,174	396	2,190
	1930	393	2,180	72	2,252	464	2,660
	1924	300	1,900	100	2,000	520	3,500
Tinplate ...	—	—	—	—	—	—	—
Hardware, Hollow-ware, Metallic Furniture and Sheet Metal...	1935	2,470	9,183	1,442	10,625	2,478	10,660
	1930	2,481	8,728	1,367	10,095	2,769	11,270
	1924	1,771	6,387	1,003	7,390	2,221	9,270
Chain, Nail, Screw and Miscellaneous Forgings ...	1935	6,136	13,145	507	13,652	6,144	13,670
	1930*	7,089	14,987	551	15,538	7,655	16,800
	1924	6,894	14,483	532	15,015	9,384	20,400
Wrought Iron and Steel Tube	1935	8	41	8	49	8	49
	1930	20	84	1	85	20	85
	1924	11	52	2	54	11	54
Wire ...	1935	181	783	112	895	181	895
	1930	195	804	141	945	218	1,060
	1924	138	492	88	580	163	685

Trade		Firms furnishing information			Total, including firms not furnishing returns		
		Number of returns received	Average number of persons employed		Number	Estimated number of persons employed	
			Males	Females			Total
Tool and Implement ...	1935	404	1,536	158	1,694	408	1,710
	1930*	831	2,000	563	2,563	876	2,700
	1924	356	1,625	142	1,767	446	2,210
Cutlery ...	1935	545	1,412	296	1,708	548	1,720
	1930*	415	1,460	170	1,630	569	2,240
	1924	399	1,171	343	1,514	899	3,400
Needle, Pin and Metal Small-ware ...	1935	80	211	169	380	80	380
	1930	81	212	122	334	88	360
	1924	135	166	128	294	165	360
Small Arms ...	1935	104	395	53	448	104	448
	1930	144	425	58	483	160	540
	1924	89	319	21	340	134	510
Unclassified Trades (Northern Ireland)...	1930	255	513	51	564	255	564
TOTAL—UNITED KINGDOM	1935	10,343	28,939	2,817	31,756	10,369	31,853
	1930	11,928	31,518	3,103	34,621	13,125	38,559
	1924	10,117*	26,727*	2,365*	29,092*	13,989	40,659
England and Wales ...	1935†	8,677	24,875	2,584	27,459	8,699	27,545
	1930	1,343	3,401	231	3,632	1,347	3,643
	1924	323	663	2	665	323	665

\* Great Britain only.

† Particulars for 1930 and 1924 are not available.

Table II.—Size of establishments in 1935

Size of establishment (average number employed)	Number of establishments	Gross output	Net output	Number of persons employed (excluding out-workers)	Net output per person employed
	No.	£'000	£'000	No.	£
11-24 ...	997	5,939	3,248	17,530	185
25-49 ...	995	12,819	6,592	34,406	192
50-99 ...	740	20,397	10,011	52,165	192
100-199 ...	541	34,883	15,408	75,102	205
200-299 ...	258	30,447	13,518	63,261	214
300-399 ...	125	25,203	9,405	43,148	218
400-499 ...	74	19,007	6,893	32,854	210
500-749 ...	91	33,559	12,046	55,552	217
750-999 ...	42	19,260	8,210	35,601	231
1,000-1,499 ...	38	28,324	10,781	46,826	230
1,500 and over...	32	50,747	20,396	82,825	246
TOTAL ...	3,933	280,585	116,508	539,270	216

In the above Table every manufacturing or processing establishment is counted as a separate unit and a single firm may thus be included several times. In Table III the firm is taken as the unit, all establishments owned by a single firm in trades included in the Iron and Steel group being assembled together and counted once only. For this purpose a "firm" includes all businesses operated under the same trading name; companies that made returns under their own name are included as separate firms, although they may form part of, or be associated with, larger combinations for purposes of trading.

Table III.—Size of firms in 1935

Size of firm (average number employed)	Number of firms	Gross output	Net output	Number of persons employed (excluding out- workers)	Net output per person employed
	No.	£'000	£'000	No.	£
11-24 ... ..	902	5,183	2,926	15,880	184
25-49 ... ..	888	10,876	5,814	30,732	189
50-99 ... ..	650	17,048	8,812	45,997	192
100-199 ... ..	469	27,080	12,979	65,145	199
200-299 ... ..	201	21,212	9,704	48,940	198
300-399 ... ..	108	16,327	7,690	36,904	208
400-499 ... ..	49	10,174	4,598	21,785	211
500-749 ... ..	67	20,766	8,751	41,458	211
750-999 ... ..	35	15,805	6,480	30,243	214
1,000-1,499 ... ..	28	17,976	7,356	34,132	216
1,500-1,999 ... ..	12	11,770	5,845	21,083	277
2,000-2,499 ... ..	13	17,330	6,510	29,114	224
2,500-2,999 ... ..	5	9,088	2,855	14,143	202
3,000-3,999 ... ..	5	13,149	4,205	16,970	248
4,000-4,999 ... ..	7	23,987	8,335	32,150	259
5,000-7,499 ... ..	4	18,142	6,609	23,308	284
7,500 and over... ..	3	24,672	7,039	31,286	225
TOTAL ... ..	3,446	280,585	116,508	539,270	216

Table IV.—Particulars of output, etc., in each of the principal areas of the United Kingdom

Area*	Number of establish- ments†	Gross output	Net output	Number of persons employed (excluding out- workers)	Net output per person employed	
	No.	£'000	£'000	No.	£	
<i>England and Wales</i>						
1. Greater London ... ..	1935 1930	521 385	19,908 12,726	10,791 6,969	43,439 30,819	248 226
2. Lancashire, Cheshire and the Glossop and New Mills District of Derbyshire ... ..	1935 1930	368 312	24,960 21,504	9,874 7,861	45,692 42,981	216 183
3. West Riding of Yorkshire ... ..	1935 1930	698 615	43,966 34,002	19,633 15,411	89,849 85,513	219 180

Area*	Number of establish- ments†	Gross output	Net output	Number of persons employed (excluding out- workers)	Net output per person employed	
	No.	£'000	£'000	No.	£	
<i>England and Wales—contd.</i>						
4. Northumberland, Durham and North Riding of Yorkshire ... ..	1935 1930	131 137	25,095 24,907	7,290 6,738	34,319 36,952	212 182
5. Warwickshire, Worcestershire and Staffordshire	1935 1930	1,421 1,186	67,983 51,739	32,514 24,080	161,911 136,902	201 176
6. East Midland District ... ..	1935	121	13,636	5,138	25,859	199
7. West Midland District ... ..	1935	47	2,840	1,271	6,657	191
8. South-Eastern District (exclud- ing Greater Lon- don) ... ..	1935	50	2,003	1,111	5,163	215
9. South-Western District ... ..	1935	26	608	256	1,174	218
10. Eastern District...	1935	60	11,790	4,585	16,295	281
11. Cumberland and Westmorland ... ..	1935	5	751	195	1,247	156
Total—6-11 ... ..	1935 1930	309 315	31,628 27,366	12,556 9,330	56,395 48,741	223 191
12. South Wales (in- cluding Mon- mouthshire) ... ..	1935 1930	162 158	37,341 33,975	11,662 9,774	49,222 49,926	237 196
13. The rest of Wales	1935 1930	9 10	3,841 3,144	980 939	5,831 5,332	168 176
Total—England and Wales ... ..	1935 1930	3,619 3,118	254,722 210,263	105,300 81,102	486,658 437,166	216 186
<i>Scotland</i>						
14. West Central District ... ..	1935 1930	193 170	20,233 21,068	7,910 7,348	36,244 38,782	218 189
15. East Central District ... ..	1935	84	5,115	3,036	14,694	207
16. Southern Counties	1935	8	298	141	829	170
17. Northern Counties	1935	14	101	60	437	137
Total—15-17 ... ..	1935 1930	106 110	5,514 6,481	3,237 3,382	15,960 17,961	203 188
Total—Scotland	1935 1930	299 280	25,747 27,549	11,147 10,730	52,204 56,743	213 189
TOTAL— Great Britain	1935 1930	3,918 3,398	280,469 237,812	116,447 91,832	538,862 493,909	216 186
18. Northern Ireland	1935 1930	15 17	116 100	61 66	408 419	150 158
TOTAL—UNITED KINGDOM ... ..	1935 1930	3,933 3,415	280,585 237,912	116,508 91,898	539,270 494,328	216 186

\* For particulars see page xviii.

† Number of returns for 1930.

## PRODUCTION

Table V.—Estimated value of the gross output in 1935, free from duplication

Trade	Gross output		Net output
	Value as returned	Estimated value free from duplication	
	£'000	£'000	£'000
Iron and Steel (Blast Furnaces) ...	21,047	21,047	4,083
Iron and Steel (Smelting and Rolling) ...	101,792	83,500—84,200	33,663
Iron and Steel Foundries ...	39,018	38,800—39,000	22,858
Tinplate ...	13,925	13,800—13,900	4,914
Hardware, Hollow-ware, Metallic Furniture and Sheet Metal ...	35,931	35,650—35,750	18,006
Chain, Nail, Screw and Miscellaneous Forgings ...	21,357	21,300	10,635
Wrought Iron and Steel Tube ...	16,589	16,350	6,923
Wire ...	15,723	13,600—13,950	5,770
Tool and Implement ...	7,955	7,650—7,900	4,927
Cutlery ...	3,623	3,410—3,430	2,378
Needle, Pin, and Metal Smallwares ...	3,203	3,200	2,064
Small Arms ...	422	410	287

Table VI.—Volume of Production, 1924-1935

Kind of output	Production index (1935 = 100)			
	1924	1930	1933	1934
Pig iron and ferro-alloys ...	115	96	63	90
Crude steel and rolling mill products ...	93	77	73	90
Iron and steel castings ...	71†	76†	74†	91
Tinned and terne plates, etc... ..	121	115	108	103
Hardware, hollow-ware, metallic furniture and sheet metal goods ...	51	73	74*	88*
Chains, nails, screws and miscellaneous forgings ...	78	88	70	92
Wrought iron and steel tubes ...	56†	69†	71†	91†
Wire and wire manufactures ...	75	75	78	91
Tools and implements... ..	65	69	75	86
Cutlery ...	42	58	75	89
Needles, pins and metal smallwares ...	86	84	91*	99*
Small arms ...	154	94	53	80

† In calculating these index numbers the figures for the base year have been adjusted.

\* Owing to the exclusion of certain groups of firms from the Inquiries for these years, the 1935 base figure has been adjusted in calculating these indices.

## CONSUMPTION OF FUEL AND ELECTRICITY

Table VII.—Consumption of coal and coke for all purposes

Trade	Coal		Coke	
	1935	1930	1935	1930
	Th. tons	Th. tons	Th. tons	Th. tons
Iron and Steel (Blast Furnaces)	344.0	7,050.2	7,170.3	7,862.7
Iron and Steel (Smelting and Rolling) ...	6,589.0		140.6	
Iron and Steel Foundries ...	421.8	295.1	470.9	271.8
Tinplate... ..	694.4	795.3	5.7	0.1
Hardware, Hollow-ware, Metallic Furniture and Sheet Metal	132.2	96.8	59.7	41.8
Chain, Nail, Screw and Miscellaneous Forgings ...	254.7	212.5	74.2	60.5
Wrought Iron and Steel Tube	304.6	316.4	35.0	38.8
Wire ...	210.4	190.7	28.0	30.4
Tool and Implement ...	62.3	85.8	33.7	28.7
Cutlery ...	4.8	4.5	2.8	3.9
Needle, Pin, and Metal Smallwares ...	10.7	7.7	4.8	2.9
Small Arms ...	0.7	0.8	0.4	0.3
TOTAL ...	9,029.6	9,055.8	8,026.1	8,341.9

Table VIII.—Consumption of heavy fuel oil in 1935

Trade	Quantity	Trade	Quantity
	Th. galls.		Th. galls.
Iron and Steel (Blast Furnaces) ...	—	Chain, Nail, Screw and Miscellaneous Forgings...	12,450
Iron and Steel (Smelting and Rolling) ...	2,752	Wrought Iron and Steel Tube ...	5,459
Iron and Steel Foundries ...	7,850	Wire ...	1,170
Tinplate ...	256	Tool and Implement ...	1,227
Hardware, Hollow-ware, Metallic Furniture and Sheet Metal ...	4,722	Cutlery ...	87
		Needle, Pin and Metal Smallwares ...	144
		Small Arms ...	37
		TOTAL ...	36,154

Table IX.—Consumption of Electricity

Trade	Electricity consumed			
	Purchased	Generated		Total
		In same works	In other works under same ownership	
	Million B.T.U. (Kw.-hrs.)			
Iron and Steel (Blast Furnaces) ... 1935	57.5	190.1	71.3	318.9
Iron and Steel (Smelting and Rolling) ... 1935	475.3	389.3	178.0	1,042.6
Total ... { 1935	532.8	579.4	249.3	1,361.5
{ 1930	282.8	510.3	122.6	915.7
Iron and Steel Foundries { 1935	122.7	20.9	27.7	171.3
{ 1930	70.2	12.7	23.7	106.6
Tinplate... { 1935	26.4	23.0	5.6	55.0
{ 1930	16.0	22.1	9.9	48.0
Hardware, Hollow-ware, Metallic Furniture and Sheet Metal ... { 1935	93.8	12.6	1.9	108.3
{ 1930	42.1	2.5	0.7	45.3
Chain, Nail, Screw and Miscellaneous Forgings ... { 1935	84.1	2.9	0.7	87.7
{ 1930	53.9	3.4	0.2	57.5
Wrought Iron and Steel Tube ... { 1935	96.1	2.8	3.5	102.4
{ 1930	70.0	4.7	—	74.7
Wire ... { 1935	76.2	12.3	6.5	95.0
{ 1930	46.5	13.9	4.5	64.9
Tool and Implement ... { 1935	34.8	0.6	0.2	35.6
{ 1930	25.8	1.5	—	27.3
Cutlery ... { 1935	9.2	0.8	—	10.0
{ 1930	7.2	0.3	—	7.5
Needle, Pin and Metal Smallwares ... { 1935	6.0	2.8	—	8.8
{ 1930	3.1	1.9	—	5.0
Small Arms ... { 1935	1.2	0.1	—	1.3
{ 1930	1.1	0.1	—	1.2
TOTAL ... { 1935	1,083.3	658.2	295.4	2,036.9
{ 1930	618.7	573.4	161.6	1,353.7

## EMPLOYMENT

Table X A.—Average number of persons employed by all firms

Trade		Persons employed by firms employing more than ten persons	Estimated number of persons employed by the small firms	Total
		Thous.	Thous.	Thous.
Iron and Steel (Blast Furnaces)...	{ 1935	15.8	—	15.8
	{ 1930	19.4	—	19.4
	{ 1924	27.0	—	27.0
Iron and Steel (Smelting and Rolling) ...	{ 1935	135.3	0.1	135.4
	{ 1930	136.4	0.3	136.7
	{ 1924	157.9	0.3	158.2
Iron and Steel Foundries...	{ 1935	109.6	2.2	111.8
	{ 1930	91.5	2.7	94.2
	{ 1924*	84.3	3.5	87.8
Tinplate ...	{ 1935	22.0	—	22.0
	{ 1930	25.3	—	25.3
	{ 1924	28.0	—	28.0
Hardware, Hollow-ware, Metallic Furniture and Sheet Metal ...	{ 1935	97.8	10.7	108.5
	{ 1930*	82.9	11.3	94.2
	{ 1924	66.9	9.2	76.1
Chain, Nail, Screw and Miscellaneous Forgings...	{ 1935	56.8	13.7	70.5
	{ 1930*	47.4	16.8	64.2
	{ 1924*	37.7	20.4	58.1
Wrought Iron and Steel Tube ...	{ 1935	28.4	†	28.4
	{ 1930	25.8	0.1	25.9
	{ 1924	24.8	0.1	24.9
Wire ...	{ 1935	23.4	0.9	24.3
	{ 1930	21.9	1.0	22.9
	{ 1924	24.9	0.7	25.6
Tool and Implement ...	{ 1935	25.5	1.7	27.2
	{ 1930*	22.4	2.6	25.0
	{ 1924	24.8	2.2	27.0
Cutlery ...	{ 1935	10.8	1.7	12.5
	{ 1930*	10.3	2.2	12.5
	{ 1924	9.9	3.4	13.3
Needle, Pin and Metal Smallwares ...	{ 1935	12.5	0.4	12.9
	{ 1930	9.4	0.4	9.8
	{ 1924	10.3	0.4	10.7
Small Arms ...	{ 1935	1.4	0.4	1.8
	{ 1930	1.4	0.5	1.9
	{ 1924	2.1	0.5	2.6
Unclassified Trades (Northern Ireland)	{ 1930	0.2	0.6	0.8
	{ 1924	0.3	—	0.3
TOTAL—UNITED KINGDOM ...	{ 1935	539.3	31.8	571.1
	{ 1930	494.3	38.5	532.8
	{ 1924	498.9	40.7	539.6
England and Wales ...	{ 1935	486.7	27.5	514.2
	{ 1930	437.2	†	†
	{ 1924	437.3	†	†
Scotland ...	{ 1935	52.2	3.6	55.8
	{ 1930	56.7	†	†
	{ 1924	61.1	†	†
Northern Ireland ...	{ 1935	0.4	0.7	1.1
	{ 1930	0.4	†	†
	{ 1924	0.5	†	†

\* Great Britain only.

† Less than 50 persons.

‡ Not available.

Table X B.—Average numbers (excluding outworkers) employed, 1924-1935

## (i) Operatives

Trade	Males		Females		Total			
	Under 18	Total	Under 18	Total	Under 18	18 and over	Total	
	Thous.	Thous.	Thous.	Thous.	Thous.	Thous.	Thous.	
Iron and Steel (Blast Furnaces)	1935	0.4	14.5	*	*	0.4	14.1	14.5
	1930	0.4	18.0	*	0.1	0.4	17.7	18.1
	1924	0.5	25.2	*	0.1	0.5	24.8	25.3
Iron and Steel (Smelting and Rolling)	1935	8.3	122.1	0.3	0.8	8.6	114.3	122.9
	1930	8.1	122.5	0.2	1.2	8.3	115.4	123.7
	1924	11.3	144.1	0.4	1.5	11.7	133.9	145.6
Iron and Steel Foundries	1935	11.9	93.7	1.8	5.5	13.7	85.5	99.2
	1930	10.4	78.9	1.2	4.2	11.6	71.5	83.1
	1924†	10.5	73.6	1.1	3.2	11.6	65.2	76.8
Tinplate...	1935	1.8	19.3	0.4	1.9	2.2	19.0	21.2
	1930	2.4	21.6	0.6	2.8	3.0	21.4	24.4
	1924	3.8	23.3	1.3	3.8	5.1	22.0	27.1
Hardware, Hollow-ware, Metallic Furniture and Sheet Metal ...	1935	9.5	49.3	13.4	38.3	22.9	64.7	87.6
	1930†	7.4	41.8	11.5	32.7	18.9	55.6	74.5
	1924	6.3	35.2	8.6	25.3	14.9	45.6	60.5
Chain, Nail, Screw and Miscellaneous Forgings ...	1935	6.2	34.0	5.1	16.9	11.3	39.6	50.9
	1930†	4.4	28.9	4.1	13.7	8.5	34.1	42.6
	1924†	3.8	21.5	3.8	12.7	7.6	26.6	34.2
Wrought Iron and Steel Tube	1935	2.3	23.3	0.4	1.3	2.7	21.9	24.6
	1930	1.9	22.1	0.2	0.7	2.1	20.7	22.8
	1924	2.1	21.3	0.1	0.6	2.2	19.7	21.9
Wire ...	1935	2.1	17.4	1.4	3.7	3.5	17.6	21.1
	1930	2.0	16.4	1.1	3.2	3.1	16.5	19.6
	1924	2.5	18.7	1.1	3.8	3.6	18.9	22.5
Tool and Implement ...	1935	4.1	18.0	1.7	4.6	5.8	16.8	22.6
	1930†	2.8	16.3	0.9	3.3	3.7	15.9	19.6
	1924	3.3	18.9	0.8	2.9	4.1	17.7	21.8
Cutlery ...	1935	1.1	4.9	1.8	4.8	2.9	6.8	9.7
	1930†	0.7	4.8	1.4	4.2	2.1	6.9	9.0
	1924	0.7	5.6	1.0	3.2	1.7	7.1	8.8
Needle, Pin and Metal Small-wares ...	1935	0.4	3.3	2.6	8.0	3.0	8.3	11.3
	1930	0.3	2.7	1.8	5.9	2.1	6.5	8.6
	1924	0.4	3.0	1.7	6.5	2.1	7.4	9.5
Small Arms ...	1935	0.2	1.0	*	0.2	0.2	1.0	1.2
	1930	0.2	1.0	*	0.2	0.2	1.0	1.2
	1924	0.3	1.7	*	0.2	0.3	1.6	1.9
Unclassified Trades (Northern Ireland) ...	1930	0.1	0.2	*	*	0.1	0.1	0.2
	1924	*	0.2	—	*	*	0.2	0.2
TOTAL ...	1935	48.3	400.8	28.9	86.0	77.2	409.6	486.8
	1930	41.1	375.2	23.0	72.2	64.1	383.3	447.4
	1924	45.5	392.3	19.9	63.8	65.4	390.7	456.1

\* Less than 50 persons.

† Great Britain only.

Table X B.—Average numbers (excluding outworkers) employed, 1924-1935 (continued)

## (ii) Administrative, technical and clerical staff

Trade	Males		Females		Total			
	Under 18	Total	Under 18	Total	Under 18	18 and over	Total	
	No.	No.	No.	No.	No.	No.	No.	
Iron and Steel (Blast Furnaces)	1935	89	1,082	17	182	106	1,158	1,264
	1930	80	1,141	24	138	104	1,175	1,279
	1924	118	1,487	11	158	129	1,516	1,645
Iron and Steel (Smelting and Rolling)	1935	921	10,130	422	2,296	1,343	11,083	12,426
	1930	1,055	10,730	333	1,971	1,388	11,313	12,701
	1924	1,009	10,797	142	1,548	1,151	11,194	12,345
Iron and Steel Foundries	1935	703	8,040	368	2,369	1,071	9,338	10,409
	1930	647	6,604	305	1,828	952	7,480	8,432
	1924*	635	6,015	245	1,527	880	6,662	7,542
Tinplate...	1935	42	756	3	65	45	776	821
	1930	53	794	4	63	57	800	857
	1924	88	796	5	74	93	777	870
Hardware, Hollow-ware, Metallic Furniture and Sheet Metal ...	1935	451	6,737	588	3,400	1,039	9,098	10,137
	1930*	520	5,767	471	2,653	991	7,429	8,420
	1924	412	4,354	363	2,001	775	5,580	6,355
Chain, Nail, Screw and Miscellaneous Forgings ...	1935	330	3,874	397	2,064	727	5,211	5,938
	1930*	278	3,260	269	1,548	547	4,261	4,808
	1924*	163	2,346	195	1,141	358	3,129	3,487
Wrought Iron and Steel Tube	1935	201	2,715	216	1,079	417	3,377	3,794
	1930	229	2,317	99	694	328	2,683	3,011
	1924	185	2,250	74	687	259	2,678	2,937
Wire ...	1935	133	1,631	120	729	253	2,107	2,360
	1930	124	1,586	89	674	213	2,047	2,260
	1924	264	1,745	121	623	385	1,983	2,368
Tool and Implement ...	1935	146	1,923	212	1,030	358	2,595	2,953
	1930*	166	1,843	172	932	338	2,437	2,775
	1924	170	2,186	115	852	285	2,753	3,038
Cutlery ...	1935	38	685	74	401	112	974	1,086
	1930*	33	718	116	514	149	1,083	1,232
	1924	35	712	38	348	73	987	1,060
Needle, Pin and Metal Small-wares ...	1935	36	571	83	558	119	1,010	1,129
	1930	10	536	69	376	79	833	912
	1924	44	488	67	337	111	714	825
Small Arms ...	1935	9	140	14	78	23	195	218
	1930	13	125	17	65	30	160	190
	1924	19	174	20	78	39	213	252
Unclassified Trades (Northern Ireland) ...	1930	1	29	—	9	1	37	38
	1924	2	86	1	2	3	85	88
TOTAL ...	1935	3,099	38,284	2,514	14,251	5,613	46,922	52,535
	1930	3,209	35,450	1,968	11,465	5,177	41,738	46,915
	1924	3,144	33,436	1,397	9,376	4,541	38,271	42,812

\* Great Britain only.

Table X B.—Average numbers (excluding outworkers) employed, 1924-1935 (continued)

## (iii) Total Staff

Trade	Males		Females		Total			
	Under 18	Total	Under 18	Total	Under 18	18 and over	Total	
	Thous.	Thous.	Thous.	Thous.	Thous.	Thous.	Thous.	
Iron and Steel (Blast Furnaces)	1935	0.5	15.6	*	0.2	0.5	15.3	15.8
	1930	0.5	19.2	*	0.2	0.5	18.9	19.4
	1924	0.6	26.7	*	0.3	0.6	26.4	27.0
Iron and Steel (Smelting and Rolling) ...	1935	9.3	132.2	0.6	3.1	9.9	125.4	135.3
	1930	9.1	133.3	0.6	3.1	9.7	126.7	136.4
	1924	12.3	154.8	0.5	3.1	12.8	145.1	157.9
Iron and Steel Foundries ...	1935	12.6	101.7	2.2	7.9	14.8	94.8	109.6
	1930	11.1	85.5	1.5	6.0	12.6	78.9	91.5
	1924†	11.1	79.6	1.3	4.7	12.4	71.9	84.3
Tinplate... ..	1935	1.8	20.0	0.5	2.0	2.3	19.7	22.0
	1930	2.4	22.5	0.7	2.8	3.1	22.2	25.3
	1924	3.8	24.1	1.3	3.9	5.1	22.9	28.0
Hardware, Hollow-ware, Metallic Furniture and Sheet Metal ...	1935	10.0	56.1	14.0	41.7	24.0	73.8	97.8
	1930†	7.9	47.6	12.0	35.3	19.9	63.0	82.9
	1924	6.7	39.6	9.0	27.3	15.7	51.2	66.9
Chain, Nail, Screw and Miscellaneous Forgings ...	1935	6.5	37.9	5.5	18.9	12.0	44.8	56.8
	1930†	4.7	32.1	4.4	15.3	9.1	38.3	47.4
	1924†	3.9	23.9	4.1	13.8	8.0	29.7	37.7
Wrought Iron and Steel Tube	1935	2.5	26.0	0.6	2.4	3.1	25.3	28.4
	1930	2.1	24.4	0.3	1.4	2.4	23.4	25.8
	1924	2.3	23.5	0.2	1.3	2.5	22.3	24.8
Wire ... ..	1935	2.2	19.0	1.5	4.4	3.7	19.7	23.4
	1930	2.1	18.0	1.2	3.9	3.3	18.6	21.9
	1924	2.8	20.5	1.2	4.4	4.0	20.9	24.9
Tool and Implement ...	1935	4.2	19.9	2.0	5.6	6.2	19.3	25.5
	1930†	3.0	18.1	1.0	4.3	4.0	18.4	22.4
	1924	3.5	21.0	0.9	3.8	4.4	20.4	24.8
Cutlery ... ..	1935	1.1	5.6	1.9	5.2	3.0	7.8	10.8
	1930†	0.8	5.5	1.5	4.8	2.3	8.0	10.3
	1924	0.8	6.3	1.0	3.6	1.8	8.1	9.9
Needle, Pin and Metal Small-wares ...	1935	0.5	3.9	2.6	8.6	3.1	9.4	12.5
	1930	0.3	3.2	1.8	6.2	2.1	7.3	9.4
	1924	0.5	3.5	1.7	6.8	2.2	8.1	10.3
Small Arms ...	1935	0.2	1.2	*	0.2	0.2	1.2	1.4
	1930	0.2	1.1	*	0.3	0.2	1.2	1.4
	1924	0.3	1.9	0.1	0.2	0.4	1.7	2.1
Unclassified Trades (Northern Ireland) ...	1930	0.1	0.2	*	*	0.1	0.1	0.2
	1924	*	0.3	*	*	*	0.3	0.3
	TOTAL ...	1935	51.4	439.1	31.4	100.2	82.8	456.5
	1930	44.3	410.7	25.0	83.6	69.3	425.0	494.3
	1924	48.6	425.7	21.3	73.2	69.9	429.0	498.9

\* Less than 50 persons.

† Great Britain only.

Table X C.—Summary of the average numbers (excluding outworkers) employed, 1924-1935

Country	Males		Females		Total			
	Under 18	Total	Under 18	Total	Under 18	18 and over	Total	
Operatives								
England and Wales	1935	43.8	356.4	27.7	82.9	71.5	367.8	439.3
	1930	36.3	326.6	22.2	69.3	58.5	337.4	395.9
	1924	39.8	339.5	19.0	61.0	58.8	341.7	400.5
Scotland ...	1935	4.4	44.0	1.2	3.1	5.6	41.5	47.1
	1930	4.7	48.2	0.8	2.9	5.5	45.6	51.1
	1924	5.6	52.4	0.9	2.8	6.5	48.7	55.2
Northern Ireland	1935	0.1	0.4	*	*	0.1	0.3	0.4
	1930	0.1	0.4	*	*	0.1	0.3	0.4
	1924	0.1	0.4	*	*	0.1	0.3	0.4
TOTAL—United Kingdom ...	1935	48.3	400.8	28.9	86.0	77.2	409.6	486.8
	1930	41.1	375.2	23.0	72.2	64.1	383.3	447.4
	1924	45.5	392.3	19.9	63.8	65.4	390.7	456.1
Administrative, technical and clerical staff								
England and Wales	1935	2.8	34.4	2.3	13.0	5.1	42.3	47.4
	1930	2.8	31.1	1.8	10.2	4.6	36.7	41.3
	1924	2.7	28.7	1.2	8.1	3.9	32.9	36.8
Scotland ...	1935	0.3	3.9	0.2	1.2	0.5	4.6	5.1
	1930	0.4	4.4	0.2	1.2	0.6	5.0	5.6
	1924	0.4	4.6	0.2	1.3	0.6	5.3	5.9
Northern Ireland	1935	*	*	*	*	*	*	*
	1930	*	*	*	*	*	*	*
	1924	*	0.1	*	*	*	0.1	0.1
TOTAL—United Kingdom ...	1935	3.1	38.3	2.5	14.2	5.6	46.9	52.5
	1930	3.2	35.5	2.0	11.4	5.2	41.7	46.9
	1924	3.1	33.4	1.4	9.4	4.5	38.3	42.8
Total staff (excluding outworkers)								
England and Wales	1935	46.6	390.8	30.0	95.9	76.6	410.1	486.7
	1930	39.1	357.7	24.0	79.5	63.1	374.1	437.2
	1924	42.5	368.2	20.2	69.1	62.7	374.6	437.3
Scotland ...	1935	4.7	47.9	1.4	4.3	6.1	46.1	52.2
	1930	5.1	52.6	1.0	4.1	6.1	50.6	56.7
	1924	6.0	57.0	1.1	4.1	7.1	54.0	61.1
Northern Ireland	1935	0.1	0.4	*	*	0.1	0.3	0.4
	1930	0.1	0.4	*	*	0.1	0.3	0.4
	1924	0.1	0.5	*	*	0.1	0.4	0.5
TOTAL—UNITED KINGDOM	1935	51.4	439.1	31.4	100.2	82.8	456.5	539.3
	1930	44.3	410.7	25.0	83.6	69.3	425.0	494.3
	1924	48.6	425.7	21.3	73.2	69.9	429.0	498.9

\* Less than 50 persons.

Table X D.—Average number of outworkers employed, 1924-1935

Trade	Males		Females		Total	
	No.	No.	No.	No.	No.	No.
Chain, Nail, Screw and Miscellaneous Forgings ... ..	1935	361	117		478	
	1930	278	177		455	
	1924	245	312		557	
Needle, Pin and Metal Smallwares ... ..	1935	32	324		356	
	1930	23	168		191	
	1924	38	506		544	
Small Arms ... ..	1935	200	7		207	
	1930	259	3		262	
	1924	191	3		194	
TOTAL—United Kingdom ... ..	1935	593	448		1,041	
	1930	560	348		908	
	1924	474	821		1,295	
England and Wales ... ..	1935	532	448		980	
	1930	533	348		881	
	1924	474	821		1,295	
Scotland ... ..	1935	61	—		61	
	1930	27	—		27	
Northern Ireland ... ..	1935	—	—		—	
	1930	—	—		—	

Table X E.—Operatives employed in one week in each month by firms furnishing returns in respect of the twelve months ended December

Mid week of*	Operatives employed		Monthly index†			
	1930	1935	1930	1933	1934	1935
January ... ..	301,235	285,764	98.7	76.1	87.5	96.0
February ... ..	299,657	287,068	98.2	77.7	89.1	96.5
March ... ..	299,013	289,275	98.0	78.0	90.4	97.2
April ... ..	294,752	292,349	96.6	79.2	91.1	98.2
May ... ..	293,716	293,565	96.3	80.6	92.6	98.7
June ... ..	287,721	290,018	94.3	81.6	93.1	97.5
July ... ..	277,385	297,102	90.9	82.4	92.9	99.8
August ... ..	269,338	297,609	88.3	82.3	92.6	100.0
September ... ..	268,631	302,938	88.1	84.9	94.1	101.8
October ... ..	260,781	307,908	85.5	86.1	95.0	103.5
November ... ..	257,110	312,258	84.3	87.5	95.8	104.9
December ... ..	255,329	315,066	83.7	88.8	95.7	105.9
Average for the twelve months... ..	280,389	297,577	91.9	82.1	92.5	100.0
Proportion of total operatives represented... ..	62.7	61.1	...	...	...	...

\* For the ending date of each week see page xiv.

† Based on the estimated average for the year 1935.

Table XI.—Wages paid by firms furnishing returns of wages in 1935 and 1930

Trade	Average number of operatives		Net output		Wages paid		
	Number	Proportion of trade	Amount	Proportion of trade	Amount	Proportion of net output	
		Per cent.	£'000	Per cent.	£'000	Per cent.	
Iron and Steel (Blast Furnaces)	1935	8,397	57.7	2,336	57.2	1,347	57.7
	1930	7,114	39.3	1,467	37.2	1,187	80.9
Iron and Steel (Smelting and Rolling) ... ..	1935	87,713	71.4	22,121	65.7	13,805	62.4
	1930	87,123	70.4	17,374	67.9	13,312	76.6
Iron and Steel Foundries ... ..	1935	65,645	66.2	14,717	64.4	8,584	58.3
	1930*	53,090	62.8	11,157	65.5	6,743	60.4
Tinplate ... ..	1935	16,619	78.5	3,943	80.2	2,415	61.3
	1930	20,902	85.6	4,480	88.0	3,224	72.0
Hardware, Hollow-ware, Metallic Furniture and Sheet Metal ... ..	1935	54,284	61.9	10,856	60.3	5,267	48.5
	1930*	38,475	51.6	7,502	50.6	3,844	51.2
Chain, Nail, Screw and Miscellaneous Forgings... ..	1935	27,018	53.1	5,540	52.1	2,808	50.7
	1930*	23,927	56.2	4,436	55.1	2,783	62.7
Wrought Iron and Steel Tube ... ..	1935	15,162	61.7	4,676	67.5	2,081	44.5
	1930	18,764	82.4	4,724	83.5	2,597	55.0
Wire ... ..	1935	13,986	66.4	3,709	64.3	1,780	48.0
	1930	15,560	79.2	3,264	77.2	2,022	62.0
Tool and Implement	1935	11,848	52.5	2,564	52.0	1,212	47.3
	1930*	7,969	40.7	1,487	40.2	804	54.1
Cutlery ... ..	1935	5,428	55.8	1,675	70.4	503	30.1
	1930*	3,269	36.1	504	28.5	321	63.7
Needle, Pin and Metal Smallwares	1935	7,273	64.2	1,283	62.2	644	50.2
	1930	4,322	50.6	787	47.6	366	46.5
Small Arms ... ..	1935	734	62.2	155	54.0	88	57.0
	1930	889	75.6	222	71.6	127	57.2
TOTAL ... ..	1935	314,107	64.5	73,575	63.2	40,534	55.1
	1930	281,404	62.9	57,404	62.5	37,330	65.0

\* Great Britain only.