THE CHAIN, NAIL, SCREW, AND MISCELLANEOUS FORGINGS TRADES

INTRODUCTORY

These trades comprise firms that were engaged wholly or mainly in the manufacture of anchors, chains, springs, bolts, nuts, nails, screws, and other forgings.

Table I A.—General summary

Particulars	1935	1934	1933	1930†	1924†
Value of products (Gross output) Cost of materials, fuel and electricity	£'000	£'000	£'000	£'000	£'000
	21,357	18,991	14,382	16,465	14,395
used Amount paid for work given out Net output	10,536	9,491	7,053	8,319	7,408
	186	105	86	97	82
	10,635	9,395	7,243	8,049	6,905
	No.	No.	No.	No.	No.
Average number of persons employed (excluding outworkers) Net output per person employed	56,783	52,706	44,943	47,414	37,692
	£	£	£	£	£
(excluding outworkers) Number of returns	187 No.	178	161	170 No. 482	183 No. 475
Number of establishments	541 570	} *	* {	538	*

* Not available.

† The figures relate to Great Britain only, particulars of the small production in Northern Ireland not being available.

Table ! B .- Firms employing not more than ten persons on the average

Particulars			1935	1930*	1924
Number of returns received			No. 6,136	No. 7,089	No. 6,894
Average number of persons employed Males Females	:— :::	·	13,145 507	14,9 ⁸ 7 551	14,4 ⁸ 3 53 ²
Total			13,652	15,538	15,015
Number of firms not making returns			8	566	2,490

* Great Britain only.

Particulars of the output of the small firms that made returns at the 1924 Census are shown below. The value of the gross output of these firms was £3,233,000, of which £2,761,000 was in respect of horse-shoes, horse-shoeing and general blacksmiths' work. The latter figure represented about 82 per cent. of the total returned on all schedules for this class of work. The limitation of the scope of the Census to firms

employing more than ten persons therefore led to the practical exclusion of this description of work from the Census. The output of other goods by the small firms in 1924 represented barely 2.5 per cent. of the total.

Output	nd steel:— ins and chain cables (including transmission chains) s, tacks, bolts, screws, etc se-shoes and horse-shoeing cing material ders' ironmongery er manufactures of iron and steel goods made			Value	Proportion of total
The grant make the second of the second				£'000	Per cent.
Iron and steel:—					
Chains and chain cables (including tr	ansmiss	sion ch	ains)	95	3.6
				63	0.9
				576	80.0
				57	6.0
				62	23.4
				153	2.7
				16	0.1
				2,185†	81.8
				26†	48.1
Other work				201	40 +
Total				3,233	18.3

* Including repair work and also horse-shoeing when this was not included with horse-shoes and horse-shoeing above.

† Amount received.

Table II.—Size of establishments in 1935

Size of establishmen (average num employed)	ber	Number of establish- ments	Gross output	Net output	Number of persons employed (excluding outworkers)	Net output per person employed
		No.	£'000	£,'000	No.	£
11-24		147	845	443	2,550	174
25-49		155	2,123	1,074	5,489	196
50-99		125	3,123	1,559	8,897	175
100-199		73	3,647	1,769	9,888	179
200-299		34	3,509	1,716	8,490	202
300-399		20	2,823	1,326	6,846	194
400-499		4	622	322	1,800	179
500-749			953	352	2,269	155
750 and over		8	3,712	2,074	10,554	197
TOTAL		570	21,357	10,635	56,783	187

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

	1				
Area*	Number of establish- ments†	Gross output	Net output	Number of persons employed (excluding outworkers)	Net output per person employed
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	No. 64 47 47 50 58 49 11 13 312 260	£'000 1,275 915 1,679 1,549 2,140 1,699 300 376 12,880 9,897	£'000 737 526 956 864 963 795 113 135 6,583 4,861	No. 4,185 3,057 4,843 4,830 5,402 4,483 585 829 34,989 29,315	£ 176 172 197 179 178 177 194 162 188 166
6 1935 7 1935 8-11 and 18 1935	9 4 14	482 38 459	275 19 212	1,079 114 933	255 164 227
6-11 and \ 1935	27	979	506	2,126	238
18 \} 1930‡	21	<i>543</i>	289	1,167	248
12 and $13 \begin{cases} 1935 \\ 1930 \end{cases}$ 14 $ \begin{cases} 1935 \\ 1935 \\ 1930 \end{cases}$	7	4 ⁸ 5	139	832	167
	7	245	101	628	161
	34	1,322	513	3,088	166
	26	1,036	392	2,616	150
15 1935	5	121	57	287	199
16 and 17 1935	5	176	68	446	153
$15-17$ $\begin{cases} 1935 \\ 1930 \end{cases}$	10	297	125	733	171
	9	205	86	489	176
TOTAL $\begin{cases} 1935 \\ 1930 \\ 1 \end{cases}$	570	21,357	10,635	56,783	187
	482	16,465	8,049	47,414	170

^{*} For particulars see page xviii. † Number of returns for 1930. ‡ Excluding Northern Ireland.

Table IV.—Sub-divisions of the industry

Group	Number of establish- ments*	Gross output	Value of charac- teristic products	Net output	Number of persons employed (excluding outworkers)	Net output per person em- ployed
Anchors, chain-cables and chains, other than	No.	£'000	£'000	£'000	No.	£
transmis- sion chains 1935 Transmis-	42	931	721	491	2,437	202
sion chains 1935	6	735	559	531	2,158	246
Total:— Anchors, chain- cables and chains	48 42	1,666 2,032	1,308 1,728	1,022	4,595 5,218	223 208
Springs $\begin{cases} 1935 \\ 1930 \end{cases}$ Fencing 1935 material 1930 Nails, tacks,	76 46 39 30	2,501 1,350 585 615	2,171 1,296 482 475	1,373 743 298 332	7,493 3,851 1,724 1,664	183 193 173 200
rivets, 1935 washers, etc	75 57	3,962 2,028	3,153 1,585	1,965, 734	9,020 4,596	218 160
Bolts, nuts 1935 and screws 1930 Other 1935 output 1930	109 91 223 216	5,4°5 3,988 7,238 6,452	4,7 ⁰⁰ 3,362 	2,492 1,775 3,485 3,382	16,248 13,325 17,703 18,760	153 133 197 180
Total $\begin{cases} 1935 \\ 1930 \end{cases}$	570 482	21,357 16,465	- X	10,635 8,049	56,783 47,414	187 170

^{*} Number of returns for 1930.

PRODUCTION Table V.—Output of principal products

Kind of output		1935	1934		
Mind of output	Quantity	Value	Entries	Quantity	Value
	Th. tons	£'000	No.	Th. tons	£'000
ron and steel:—	A REDAY	~			~
Anchors and grapnels and parts	A 25 FOR THE				
thereof	2.7	59	13	2·7 7·5*	60
Ships' chain cables	9.3	279	21	7.5*	213*
Chains:—					
Steel transmission†	4.5	924	21	5.2	971
Other welded and forged	0				
chain	8.5	293	31		
Mattress and jack chain and				9.8	107
similar chain made from		20	6	9.0	401
wire	1.2	32 206	26		
Other chain	3.2	200	20)	
Total—Anchors and chains	29.7	1,793		25.2	1,645
Total—Anchors and chains	29.7	1,793		23.2	-,545

Kind of output		1935	Ne siac	193	34
	Quantity	Value	Entries	Quantity	Value
Iron and steel:—contd. Springs:— Springs for small arms,	Th. tons	£'000	No.	Th. tons	£'000
clocks, watches, motor cars, motor cycles, musical instruments and ordnance Springs for locks and latches Other springs:— Laminated Coil:—	10·4 0·1 34·0	657 11 1,053	52 10 44	10·9 0·1 26·4	626 7 862
Upholstery and mattress springs Other	9.6	350 642	37 52	8·o 8·8‡	280 588
Total—Springs	65.2	2,713		54.2	2,363
Fencing material (other than fencing wire) of cast or wrought iron: Standards Other sorts (i.e., gates, grilles, fences, trellis,	6.2	102	72	4:4	71
etc.)	44.0	945	132	34.5	781
Total—Fencing material	50.2	1,047		38.9	852
Shoe nails and rivets Hob nails, boot and shoe studs and spikes Cut nails Tacks Other nails \$\phi\$	4·8 1·5 20·6 6·4 5·6	52 300 224 143	7 20 21 23	31.7	659
Bifurcated rivets manufactured from wire Rivets (other than shoe rivets and bifurcated rivets manu-	1.4	124	3	§	§
factured from wire) and washers (other than washers assembled with bolts, etc.)	65.2	991	84	61.0§§	1,000§§
Total—Nails, rivets and washers	105.5	1,961	N middle	92.7	1,659
Screws for wood	Th. gross 24,270 Th. tons II.0 Th. gross	710	7	Th. gross 24,169	664
Coach screws	Th. tons	26	7	§	§
Bolts and nuts (including screws for metals) $\P :=$ Bright $\{$ Other than bright	23·9 125·5	1,584 275 2,889	85 13 92	Th. tons 24.5 110.3	1,619 207 2,332
Total—Screws, bolts and nuts, of iron and steel	•••	5,484			4,822
Heel and toe tips (holed for fitting) Studs and spikes and boot and shoe tips and protectors, not elsewhere specified	0.7	20	5	3·3**	140**
Clog irons †† {	o·6 	18 6	6 I	J	16.P4

Kind of output	Z EXECT.	1935		193	34
	Quantity	Value	Entries	Quantity	Value
Iron and steel:—contd. Hooks, fasteners and shackles:—	Th. tons	£'000	No.	Th. tons	£'000
Fasteners for machinery { belting {	1.0	84 18	9 2	} 0.6	78
Other descriptions	2.5	85	17	{ 2.3	72
Horse shoes, sold Frost cogs of iron and steel	5·2 0·4	81 23	10	5·7 §	23 80 §
Saddlery hardware, not elsewhere specified	1.1	114	19 {	1.8	167
Springing and spring seating	3.4	182	7	 I·I	27 21
Forgings (including drop forgings), not elsewhere specified:—		50	4		127
Of iron Of steel	5·6 97·3	183 4,021	109 89	7·6 86·3	259 3,391
Total—Manufactures of iron and steel		17,967		•••	15,726
Brass:— Nails and tacks Rivets and washers Bolts and nuts	0·6 0·6 2·5	50 93 387	17 33 44	0.5	45 100
Screws for wood {	Th. gross 3,376 Th. tons	273	10	2.0	275 441
Nails and tacks Rivets and washers Bolts, nuts and screws Forgings (including drop forg-	0·7 0·6 0·1	50 75 8	19 19 14	0·7 0·5 	64 73 3
ings), other than of iron or steel	0.2	34	8		18
Total—Manufactures of non-ferrous metals		1,077	•••	••••	1,019
Repair and jobbing work (including wheelwrighting and horse-shoeing) Work done for the trade		81‡‡ 59‡‡	68 24	with the second	38‡‡ 27‡‡
Total—Principal products		19,184	Gatt an	A46	16,810

* Described as ships' cables.
† Including steel transmission chains for vehicles.
‡ Corrected figure.

\$ Except wire nails and staples, for which see the Wire Trade (page 147).
\$ Not recorded separately.
\$ Described as rivets and washers.

¶ Described in 1935 as bolts, whether threaded or not, bolt ends, set screws and screw studs, and other screws for metal, and nuts, whether tapped or not (including washers assembled with any of these articles).

∥ So far as recorded separately.

** Described as heel tips, boot protectors, boot plates and clog irons.
†† Excluding clog irons returned by clog makers on schedules for the Boot and Shoe Trade (see page 443, Part I).
‡‡ Amount received.

The figures shown in the preceding table include the following output recorded by firms whose returns were made on schedules for other trades and are not, therefore, included in Table I A.

		1935		193	4
Kind of output	Quantity	Value	Entries	Quantity	Value
Iron and steel:—	Th. tons	£'000	No.	Th. tons	£'000
Anchors and grapnels and parts thereof	0.1	3	I	0.1	2
Chains:—					282
Steel transmission	2.5	383	10	2.4	383
Other welded and forged chain	0.1	4	I)	
Mattress and jack chain				0.2	7
and similar chain made from wire	0.1	4	2	0.2	
Other chain	0.5	30	7	J	
Springs:—					
Springs for small arms, clocks, watches, motor					
cars, motor cycles, musical			0		
instruments and ordnance	1.8	92	8	2.7	117
Other springs :— Laminated	10.1	333	15	6.5	228
Coil :—					
Upholstery and mattress	5.4	163	15	3.8	123.
springs Other	1.7	93	10	0.8	54
Fencing material (other than					
fencing wire) of cast or wrought iron:—					
Standards	3.2	51	43	2.4	33
Other sorts	13.8	291	71	11.1	252
Nails and tacks (other than wire nails and staples)	0.4	7	5	0.3	3
Rivets and washers	7.7	103	17	7.0	92
Bolts and nuts (including					
screws for metal) :— Bright	0.9	76	I	0.9	64
Other than bright	1.9	59	II	1.4	30
Heel tips, boot protectors,	0.5	16	5	0.4	15
studs, spikes and clog irons Hooks, fasteners and shackles	0.5	10			
(other than for machinery				0.3	10
belting)	0.3	10	3	0.3	
Saddlery hardware not elsewhere specified	*	5	3		4
Springing and spring seating	0.2	5	1 2	0.5	8
Forgings (including drop forg-	Ч	23	10000	1	
ings), not elsewhere speci-			Language Company	A STATE OF THE PARTY OF THE PAR	Service Control
fied:—	2.7	90	79	2.5	78
Of iron Of steel	0 7	4	I	0.1	3
Brass:—				0.2	ı
Nails and tacks	*	5	I 2	1.0	6
Rivets and washers	0.3	35	2	0.4	22
Bolts, nuts and screws	\	10	4		6
Copper:— Nails and tacks	*	3	ı	3.6	24
Rivets and washers		15	2	0.6	5
Forgings (including drop forgings)	10	2	_	_
other than of iron and steel Repair and jobbing work		12†	28	_	-
Repair and Jobbing Work					1,570
TOTAL		1,936	•••		2,375

^{*} Less than 50 tons.

† Amount received.

Table VI.—Average values of goods produced, exported and imported

And a contract of the contract		roduction to factory		Exp (f.o			oorts i.f.)
Kind of goods	Averag	ge value	1935 as a per-	Averag	e value	Averag	e value
	1935	1934	of 1934	1935	1934	1935	1934
Iron and steel:— Anchors and grapnels	per ton	per ton	Per cent.	per ton	per ton	per ton	per ton
and parts thereof Ships' chain cables Chains:—	22·2 30·0	22.7	97·8 105·9	25·3 27·1	24·9 28·2	13.4 27.9	13.2
Steel transmission Other Springs :—	205·3 39·8	186.2	110·2 96·8	203.5	198·6 35·1	93·3 24·7	101.8
For small arms, clocks, watches, motor cars, motor cycles, musical instruments and ordnance	63.1	57.5	109.7	†	†	†	†
Other springs‡:— Laminated	31.0	32.7	94.9	31.8	35.5		
Coil :— Upholstery and mattress	3-	3- 7	94 9				-1j.552 5.529
springs Other	31.6	35·I 66·6	90.0	39.4	49·0 52·0	21·0 75·3	20.9
Fencing material (other than fencing wire) of cast or wrought iron: Standards Other sorts (i.e.,	16.6	16.2	102.1				
gates, grilles, fences, trellis,etc.) Nails and tacks (other than wire nails and	21.5	22.7	94.8	\$16.5	15.9		
staples) Rivets and washers§	21.8 16.7 £ per	20·8 16·4 £ per	104.7	27·8 19·4	26·9 20·0	22·4 12·5	31.6
Screws for wood	30 · 2 £ per ton 60 · 4	th.gross 27.5 £ per ton †	109.8	52.2	60.7	45.8	46.8
Bolts and nuts (including screws for metals):—							
Bright Other than bright Horse shoes Saddlery hardware Brass:—	66·3 23·0 15·7 100·8	66.0 21.1 14.2 93.5	100·5 108·8 110·5 107·8	51·7 25·5 26·7	55·5 24·5 26·5	227·0 27·I 	140.3
Nails and tacks Rivets and washers Copper:—	84·0 152·2	86·2 180·7	97·4 84·2	†	†	†	†
Nails and tacks Rivets and washers	72·6 115·9	88·o 139·3	82·5 83·2				

^{*} Described as ship's cables.
† Not recorded separately.
‡ Except springs for locks and latches.
§ The figures for the two years are not strictly comparable—see footnote (§§) to Table V.

Table VII.—Volume of Production, 1924-1935

	Tot	al produc	tion	Pr	oductio (1935=		
Kind of output	1935	19	34			20. Seas	
	as returned	As returned	At 1935 average values	1924	1930	1933	1934
	£'000	£'000	£'000	Per	Per	Per	Per
Iron and steel:—				cent.	cent.	cent.	cent.
Anchors and grapnels							
and parts thereof	59	60	59	177	227	100	100
Ships' chain cables	279	213	226	209	225	63	81
Chains :—	, ,					3	
Steel transmission	924	971	1,070	7,15	171	92	116
Other	531	401	388	3141	74	58	73
Springs and spring						-0	0-
seating Fencing material of	2,945	2,511	2,454	92	79	58	83
cast or wrought							
iron:—							
Standards	102	71	72	70	51	45	70
Other sorts	945	781	740	74	79	56	78
Nails and tacks (other	3 13		11		, ,	3	
than wire nails and							
staples)	846	659	690	}108{	68	69	82
Rivets and washers	1,115	1,000	1,019		132	69	91
Bolts, nuts and screws	5,484	4,822	5,266	85	86	82	96
Heel and toe tips,							
studs and spikes, and clog irons	128	7.10	770	700	T.0.0	705	0.4
Fasteners, hooks and	120	140	119	120	122	105	94
shackles	187	173	161	77	85	76	86
Horse shoes and frost	20/	-73	101	11	03	10	
cogs	104	80	105	112	96	90	101
Saddlery hardware	114	194	209	406	213	151	183
Forgings (including				1.50			
drop forgings)	4,204	3,650	3,832	*	64	58	91
Brass and copper:							
Nails, tacks, rivets and washers	268	282	2.6	707	00	82	
and washers Bolts, nuts and screws			246	101	99 66	90	92
Forgings, including drop	775	719	909	74	00	90	11/
forgings, other than of							
iron and steel	34	18	28	80	174	117	82
Work done	140	65	66	128	78	29	47
TOTAL	19,184	16,810	17,659	78	88	70	92

^{*} Goods falling under this description cannot be completely identified for 1924 and no figure is therefore inserted here.

Table VIII.—Production in relation to Exports and Imports

Kind of goods		Produc- tion	Exports	Proportion of production exported	Retained imports	Avail- able for use in the United Kingdom	Share of home market held by British goods
Iron and steel:—		Th. tons	Th. tons	Per cent.	Th. tons	Th. tons	Per cent.
Anchors and)	935	2.7	2.0	73.6	0.3	1.0	67.7
grannels and >	934	2.7	2.1	78.0	0.5	$I \cdot I$	56.3
Ships cables \[\int I	935	9·3* 7·5	0.9	10.2	0.0	8.6	98.2
Chains:—							
Steel transmis- \[\int \]		4.5	1.4	30.5	0.2	3.3	95.1
7	934	5·2 13·2	1·5 6·0	28.3	0.1	8.2	96.9
0 01101 011011111	935	9.8	4.8	45.2	1.3	6.3	79.6
Springsg.—	935	34.0	1.1	3.2	0.0	32.9	100.0
	934	26.4	0.8	3.2	0.0	25.6	99.9
Unholstery and			0.6		0.4	70.0	96.0
mattress	1935	8.0	0.6	5·3 5·7	0.4	8.0	94.6
	1935	9.6	0.9	9.8	0.1	8.8	99.4
Fencing material	1934	8.8	0.8	8.9	0.0	8.0	99.8
	1935	50.2	2.8	5.5	0.0	47.4	100.0
or wrought iron Nails, tacks and	1934	38.9	3.1	8.0	0.0	35.8	99.9
staples (other than wire nails		200	6.0	76.0	2.6	25.2	92.6
and Stablest III- >	1935 1934	38.9	6·2 5·7	16.0	I · 2	35·3 27·2	95.7
boot and shoe							
studs and spikes J Rivets and	1935	66.6	8.5	12.7	2.0	60.1	96.7
washers \(\). Bolts and nuts (inclu	1934 ding	61.0	7.6	12.5	0.8	54.2	98.5
screws for metals)		28.1**	т.т	2.0	0.1	27.1	99.4
	1935 1934	27.7**		3.9	0.3	27.0	98.9
>	1935	125.5	16.3	13.0	4.0	113.2	96.5
	1934	110.3	15.0	13.6	5.8	IOI·I	94.2
Studs and spikes (other than boot and shoe studs							
tips and protect-	1935	2.1	0.9	44.8	0.0	1.3	100.0
ors (other than protectors holed							
for fitting)							
		Value (at factory)	Value (f.o.b.)		Value (c.i.f.)		
	`	£'000	£'000		£'000		
Screws for wood {	1935	710	146		63	•••	
	1934	664	122	•••	74		

* Described as ship's chain cables.

† Including steel transmission chains for road vehicles.

‡ The figures for exports and imports exclude chain of wire.

§ Excluding springs for small arms, clocks, watches, motor cars, motor cycles, musical instruments, ordnance, locks and latches.

|| Described as nails and tacks (other than wire nails).

¶ See footnote (¶) to Table V.

** Including estimates for output returned by value only.

Table IX.—Other output of the Chain, Nail, Screw and Miscellaneous Forgings Trades

The value of the gross output of the firms whose returns were made on schedules for the Chain, Nail, Screw and Miscellaneous Forgings Trades was £21,357,000 in 1935 and £18,991,000 in 1934, of which £17,248,000 in 1935 and £15,240,000 in 1934 consisted of products included in Table V. Particulars of the remaining items are shown below.

Kind of o	output			1935	1934
				£'000	£,'000
Manufactures of iron and ste					
Wire nails (including stap	les)			390	379
Tools and implements (inc	luding ma	achine tool	ls)	19	12
Iron and steel castings				124	83
Railway material (including	ng tyres an	nd axles)		295	238
Iron and steel stampings				174	244
				249	292
Bolts, hasps and hinges of				42	1
Gears and gear wheels, oth	er than fo	or vehicles		37	
Fabricated iron and steel				73	710
Other iron and steel manu				676	
Manufactures of non-ferrous					
Stampings				120	149
Other manufactures				435	444
Vehicles and parts and acces				458	422
Products of the Mechanical I	Engineerin	g Trade		409	291
Other goods made	3118111001111	S Trade		181	100
Scrap metal sold :—			•••	101	109
Iron and steel				272	254
and steel				313 (134,500 tons)	254 (TTZ 700 tous)
Brass				60	(117,700 tons) 69
D1835	•••	•••	•••	(3,100 tons)	(4,300 tons)
Copper				(0)	
Other metals	•••		•••	8	4
Work done:—	•••	•••	•••	0	0
				0.1*	20*
Constructional engineering		•••	•••	24* 8*	38*
Galvanising	.,		•••	8*	7*
TOTAL				4,109	3,751

^{*} Amount received.

MATERIALS AND FUEL

Table X A.—Materials, fuel and electricity purchased and used

Kind of materials, etc.	193	35	1934		
	Quantity	Cost	Quantity	Cost	
	Th. tons	£,'000	Th. tons	£'000	
Iron:—		~			
Bars	48.6	431	42.6	350	
Wire and rods	9.5	129	10.5	132	
Other kinds	15.2	133	18.3	161	
Steel:—					
Bars	384.9	3,619	334.7	3,135	
Wire and rods	108.0	1,368	97.5	1,228	
Other kinds	151.3	1,381	133.1	1,280	
Copper (in all forms)	1.7	82	1.5*	80	
Brass (in all forms)	12.8	605	11.8	557	
Fuel and electricity used for all purposes:—					
Coal	254.7	218			
Coke	74.2	103			
	Th. galls.				
Heavy fuel oil	12,450	209			
	Th. B.T.U.		>	2,568	
	(Kwhrs.)				
Purchased electricity†	84,762	272			
All other purchased materials and fuel		1,986			
TOTAL		10,536		9,491	

* Corrected figure.

Table X B.—Consumption of coal, coke and electricity in 1935 and 1930

	Kind of	fuel		1935	1930
Coal Coke		·		 Th. tons 254.7 74.2	Th. tons 212.5 60.5
Dlastwisiter.				Th. B.T.U. (Kwhrs.)	Th. B.T.U. (Kwhrs.)
Electricity:— Generated in sa Generated in ot Purchased		nder same	ownership	 2,934 717 84,045	3,358 200 53,906
Tota	al electricity	consumed		 87,696	57,46 4

[†] Including electricity generated in other works under the same ownership.

EMPLOYMENT

Table XI A.—Average numbers employed in 1935 and 1934

	Males		Females		Total	
Persons employed	Under	All	Under	All	Under	All
	18	ages	18	ages	18	ages
Operatives (average for \$\) 1935 the year) \\$\) 1934 Administrative, technical \$\) 1935 and clerical staff* \\$\) 1934	6,191	33,985	5,072	16,860	11,263	50,845
	5,174	31,013	4,542	16,052	9,716	47,065
	330	3,874	397	2,064	727	5,938
	213	3,725	308	1,916	521	5,641
TOTAL $$ $\left\{ \begin{array}{ll} 1935 \\ 1934 \end{array} \right.$	6,521	37,859	5,469	18,924	11,990	56,783
	5,387	34,738	4,850	17,968	10,237	52,706
Average number of out- 1935	361		117		478	
workers 1934	240		79		319	

^{*} As at 12th October, 1935, and 13th October, 1934.

Table XI B.—Operatives employed in one week in each month of 1934 and 1935 by firms furnishing returns in respect of the twelve months ended December

- Citaca Es		01						
Mid week of*			atives oyed	Monthly index†				
				1934	1935	1933	1934	1935
January				22,108	25,522	73.8	86.9	97.9
February		•••		22,729	25,583	.75.2	89.3	98.1
March				22,936	25,617	74:4	90.2	98.3
April	•••	••••		23,490	25,789	76·I	92.3	98.9
May	•••			23,657	26,156	77.5	93.0	100.3
June	•••	•••		23,665	25,809	77.9	93.0	99.0
July		•••		23,776	25,994	78.6	93.5	99.7
August		•••		23,441	25,934	78.8	92.1	99.5
September	•••			23,815	26,030	80.3	93.6	99.9
October	•••	•••		23,955	26,512	81.1	94.2	101.7
November	•••	•••		24,406	26,737	82.5	95.9	102.6
December	9.11.6	•••		24,563	27,127	83.4	96.6	104.1
Average for	the twe	lve mo	onths	23,545	26,068	78.3	92.6	100.0
Proportion of	total	opera	tives					
represented				50.03	51.27			

^{*} For the ending date of each week see page xiv.

Table XI C.—Average numbers employed, 1924-1935

	Ye	ar		Operatives	Administrative, technical and clerical staff	Total (excluding outworkers)
 1924* 1930*			,	34,205 42,606	3,4 ⁸ 7 4,808	37,692 47,414
1933 1934				39,812 47,065	5,131 5,641	44,943 52,706 56,783
935				50,845	5,938	50,703

^{*} Great Britain only.

WAGES

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

The aggregate amount of wages paid by firms furnishing returns of wages was £2,808,000 in 1935 representing 50.7 per cent. of the net output of these firms, the corresponding figures for 1930 being £2,783,000 and 62.7 per cent. The figures for these firms given below indicate the size of the sample and the extent to which it is representative.

LINES TO THE RESIDENCE OF THE PARTY OF THE P	19	35	1930*		
Firms furnishing returns of wages	Aggregate	Proportion of trade	Aggregate	Proportion of trade	
Gross output	5 5 40	Per cent. 52·7 52·1	£'000 9,184 4,436	Per cent. 55.8 55.1	
Operative staff employed :— During mid-week of October :— Males Females	8 060	54·2 52·5	No. †	†	
Total	. 27,408	53.2	23,238	55.6	
Average for the year	. 27,018	53.1	23,927	56.2	
Administrative, technical and cleric staff Number of establishments	2,999	50.5	†	†	

^{*} Great Britain only.

[†] Based on the estimated average for the year 1935.

[†] Not recorded separately.

COUNTRY TABLES (1935)

Note.—The figures given in the following tables relate only to firms whose returns were made on schedules for the Chain, Nail, Screw and Miscellaneous Forgings Trades.

Owing to the possible disclosure of information relating to individual firms, separate particulars for Northern Ireland cannot be given.

Table I.—General summary

Particulars	Unit	England and Wales and Northern Ireland	Scotland	United Kingdom
Value of products (Gross output) Cost of materials, fuel and electricity	£'000	19,738	1,619	21,357
used	,,	9,574	962 19	10,536 186
Net output Average number of persons employed	,,	9,997	638	10,635
(excluding outworkers) Net output per person employed	No.	52,962	3,821	56,783
(excluding outworkers)	K No.	189	167	187
Number of establishments	NO.	502 526	39 44	54I 570
		All the lines.	77	3/0

Table II.—Output

	All the control of th			
Kind of output	Unit	England and Wales and Northern Ireland	Scotland	United Kingdom
Iron and steel: Anchors and grapnels and parts thereof Ships' chain cables	Th. tons £'000 Th. tons £'000	2·6 56 9·3 279		2·6 56 9·3 279
Chains:— Steel transmission† { Other welded and forged chain {	Th. tons £'000 Th. tons	} * 8.4	* {	2·0 541 8·4
Mattress and jack chain and similar chain made from wire	£'000 Th. tons £'000 Th. tons	289 I·I 28		289 I·I 28
Other chain	£'000	3·0 176		3·0 176
watches, motor-cars, motor-cycles, musical instruments and ordnance	Th. tons	8·6 565	<u> </u>	8·6 565
Springs for locks and latches {	Th. tons	0·I		0.1
Other springs :— Laminated { Coil :—	Th. tons	23·9 720	_	23·9 720
Upholstery and mattress springs	Th. tons f'000 Th. tons	*	* {	5·7 187 7·9
1	£'000			549

CHAIN, NAIL,	SCREW, I			
Kind of output	Unit	England and Wales and Northern Ireland	Scotland	United Kingdom
Iron and steel:—contd. Fencing material (other than fencing wire) of cast or wrought iron:—				
Standards	Th. tons	2 · 6 45	0.4	3·0 51
Other sorts (i.e., gates, grilles,	Th. tons	22.0	8.2	30.2
fences, trellis, etc.)	£'000 Th. tons	534	120	654 4·8
Shoe nails and rivets { Hob nails, boot and shoe studs and { spikes }	£'000 Th. tons £'000	*	* {	127 1·4 50
Cut nails	Th. tons	13.7	6.7	20.4
Tacks	Th. tons	5.6	0.8	6.4
>	£'000 Th. tons	205	* {	5.5
Other nails (except wire nails) { Bifurcated rivets manufactured from }	f'000 Th. tons	J 1.4		141
wire	€'000	124	_	124
bifurcated rivets manufactured from wire), and washers (other than	Th. tons	34·I 600	23·4 288	57·5 888
washers assembled with bolts, etc.)	Th. gross	24,270	_	24,270 II·0
Screws for wood	Th. tons	710	_	710
The second of th	Th. gross	1		103
Coach screws	Th. tons			1·2 26
Bolts and nuts (including screws for metals)§:—		*	* }	22.0
$egin{align*} ext{Bright} & \dots & \left\{ egin{align*} ext{Weight stated} \dots ight. ight$	Th. tons			1,508
	f'000 Th. tons	100.9	23.1	275 124·0
Other than bright {	f'000 Th. tons	2,385	445	2,830
Heel and toe tips (holed for fitting) {	£'000	13	-	13
Studs and spikes and boot and shoe tips and protectors, not elsewhere specified	Th. tons	2·0 82	_	2·0 82 0·6
Clog irons	Th. tons	0.6	_ =	17
Hooks, fasteners and shackles:—	Th. tons	1.0	_	1.0
Fasteners for Weight stated {	£'000 £'000	84		84
belting Weight not stated Other descriptions	Th. tons	1		2 · 2
	f'000 Th. tons	*	* <	75 5·2
Horse shoes, sold	f'000 Th. tons	0.4	_	0.4
Frost cogs of iron and steel Saddlery hardware, not elsewhere	f'000 Th. tons	23 I·I		23 I·I
specified	f'000 Th. tons	109	_	109
Springing and Weight stated { seating Weight not stated	£'000 £'000	} *	* -	177
Forgings (including drop forgings), not elsewhere specified:—	Th. tons	2.6		2.6
Of iron	£'000	93	_	93
Of steel	Th. tons	90·3 3.734	283	4,017
		THE RESERVE OF THE PARTY OF THE		

. Kind of output	Unit	England and Wales and Northern Ireland	Scotland	United Kingdom
Brass:— Nails and tacks	Th. tons		ſ	0.6
Rivets and washers	Th. tons	*	*	0.6
Bolts and nuts $\left\{ egin{array}{ll} Weight stated \dots \ Weight not stated \end{array} ight.$	Th. tons £'000 £'000			88 2·2 352 97
Screws for wood {	Th. gross Th. tons	1.5	_ ` _	3,376 1·5
Copper:—	£'000.	273	_	273
Nails and tacks $\left\{\right.$	Th. tons	} *	* {	0·7 47
Rivets and washers	Th. tons	0.4	_	0.4
Bolts, nuts and screws	Th. tons	0.1	_	60 0·1
Forgings (including drop forgings),	f'000 Th. tons	8 0·1	-	8
other than of iron or steel	£'000	24	-	0·I 24
Wire nails (including staples) Tools and implements (including	£'000	*	*	390
machine tools) Iron and steel castings	£'000 £'000	19 124	=	19 124
Railway material (including tyres and axles)	f,'000	*	*	295
Iron and steel stampings	£'000 £'000	174		174
Bolts, hasps and hinges of metal	£'000	* 42	*	249
Gears and gear wheels (other than		4~		42
Fabricated iron and steel	£'000 £'000	37 73		37
Other iron and steel manufactures Manufactures of non-ferrous metals:—	£'000	663	13	73 676
Stampings	£'000	120		120
Vehicles and parts and accessories	£'000	435	-	435
(except axles) Products of the Mechanical Engineer-	£'000	458	-	458
ing Trade	£'000	409	_	409
Scrap metal sold :—	£'000	181	_	181
Iron and steel	Th. tons	268	17	134
Brass }	Th. tons	3	⁴⁵	313
Copper	£'000 £'000	59	I	60
Other and unspecified metals	£'000	8	+	8
Repair and inhim 1 (' 1 a				Amount received
Repair and jobbing work (including wheelwrighting and horse-shoeing)	£'000	40	20	60
Work done for the trade	f,'000	49 58	I	69 59
Constructional engineering Galvanising	£'000 £'000	24	-	24
				8
* Owing to the possible disclosure of i	£'000	19,738	1,619	21,357
owing to the possible disclosure of i	ntormation	relating t	o individu	al firms

^{*} Owing to the possible disclosure of information relating to individual firms, separate particulars cannot be given.

† Including steel transmission chains for vehicles.

§ See footnote (¶) to Table V, page 119.

|| So far as recorded separately.

† Less than 500.

Table III A .- Materials, fuel and electricity purchased and used

Kind of mate	erials,	etc.		Unit	England and Wales and Northern Ireland	Scotland	United Kingdom
ron :—						8.0	48.6
Bars			{	Th. tons	40·6 37°	61	431
Wire and rods			{	Th. tons	9·5 129		9·5 129
Other kinds			{	Th. tons	14.8	0 · 4	15.2
Steel :—				~			
			5	Th. tons	327.7	57.2	384.9
Bars		•••	}	£'000	3,178	8.3	3,619
Wire and rods			{	Th. tons	99.7	91	1,368
Wife and rods			>	f'000 Th. tons	1,277	21.7	151.3
Other kinds			{	f'000	1,240	141	1,381
Other minds			>	Th. tons	1.7	*	1.7
Copper (in all forms)			{	f'000	81	I	82
			>	Th. tons	12.6	0.2	12.8
Brass (in all forms)			4	£'000	594	II	605
Fuel and electricity	used	for all	pur-	~			
poses:—			(Th. tons	219.7	35.0	254.7
Coal			}	£'000	186	32	218
			}	Th. tons	73.3	0.9	74.2
Coke			3	£'000	102	I	103
			}	Th. galls	. 11,365	1,085	12,450
Heavy fuel oil			}	£'000 Th.	191	18	209
	: -: 4			B.T.U.		(0.760
Purchased electr	icity	•••)	(Kwhrs.		6,195	84,762
All other purchased	mater	rials and	fuel	£'000 £'000	252 1,845	20 141	1,986
TOTAL				€'000	9,574	962	10,536

Table III B .- Consumption of electricity

Electricity consumed	England and Wales and Northern Ireland	Scotland	United Kingdom
Generated in same works Generated in other works under same ownership Purchased	Th. B.T.U. (Kwhrs.) 2,400 717 77,850	Th. B.T.U. (Kwhrs.) 534 — 6,195	Th. B.T.U. (Kwhrs.) 2,934 717 84,045
TOTAL	80,967	6,729	87,696

^{*} Less than 50 tons.
† Including electricity generated in other works under the same ownership.

Table IV A.—Numbers employed in week ended 12th October, 1935

Persons employed	M	ales	Females		Total	
(excluding outworkers)	Under 18	All	Under 18	All	Under 18	All
England and Wales and Northern Ireland:						•
Operatives Administrative, etc.*	5,584	31,684 3,626	4,859	16,275	10,443 702	47,959 5,592
Total	5,895	35,310	5,250	18,241	11,145	53,551
Scotland:— Operatives Administrative, etc.*	685 19	2,724 248	276 6	794 98	961 25	3,518 346
Total	704	2,972	282	892	986	3,864
United Kingdom:— Operatives Administrative, etc.*	6,269 330	34,408 3,874	5,135 397	17,069 2,064	11,404 727	51,477 5,938
TOTAL	6,599	38,282	5,532	19,133	12,131	57,415

^{*} Administrative, technical and clerical staff.

Table IV B.—Operatives employed in one week in each month of 1935

Week ended						- Males and females			
						England and Wales and Northern Ireland	Scotland	United Kingdom	
January 19 February 16 March 16 April 13 May 18 June 15 July 13 August 17 September 14 October 12 November 16 December 14						47,235 47,009 47,090 46,660 47,170 46,415 47,111 46,912 47,327 47,959 48,485 49,064	3,310 3,344 3,371 3,477 3,474 3,506 3,447 3,530 3,478 3,518 3,574 3,670	50,545 50,353 50,461 50,137 50,644 49,921 50,558 50,442 50,805 51,477 52,059 52,734	
Average for	the tv	velve m	onths	•••		47,370	3,475	50,845	

Table IV C.—Numbers of outworkers at two specified periods in 1935

A THE RESERVE		January		July			
Country	Males	Females	Total	Males	Females	Total	
England and Wales Scotland		301 46	123	424 46	299 76	110	4 ⁰⁹ 76
Great Britain		347	123	470	375	110	485

No outworkers were recorded by firms in Northern Ireland.

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

Particulars	England and Wales and Northern Ireland	Scotland	United Kingdom
Number of returns received	 No. 5,008	No. 1,128	No. 6,136
Average number of persons employed :— Males Females	 10,722	2,423 82	13,145 507
Total •	 11,147	2,505	13,652