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 | $1930 \dagger$ | $1924 \dagger$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | £'000 | £'000 | £'000 | $\chi^{\prime}$ 'ooo | $\chi^{\prime} 00$ |
| Value of products (Gross output)... | 21,357 | 18,991 | 14,3 | 16,465 | 14,395 |
| Cost of materials, fuel and electricity used | 10,536 | 9,49I | 7,053 | 8,319 | 7,408 |
| Amount paid for work given out ... | 186 | 105 | 86 | 97 | 82 |
| Net output ... | 10,635 | 9,395 | 7,243 | 8,049 | 6,905 |
|  | No. | No. |  |  |  |
| Average number of persons employed (excluding outworkers)... | $\begin{gathered} 56,783 \\ \ddagger \end{gathered}$ | $\stackrel{52,706}{\text { f }}$ | $\stackrel{44,943}{\text { ¢ }}$ | $\stackrel{47,4 \mathrm{I} 4}{\nmid}$ | $\underset{\not \subset}{37,692}$ |
| Net output per person employed (excluding outworkers) | 187 | 178 | 161 | 170 | 183 |
|  | No. |  |  | No. | No. |
| Number of returns ... ... <br> Number of establishments | $\begin{aligned} & 541 \\ & 570 \end{aligned}$ |  | * $\{$ | 482 538 | ${ }_{*}^{475}$ |

* Not availate
* Not available.
$\dagger$ The figures relate to Great Britain only, particulars of the small production in Northern Ireland not being available.

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


* 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 $£_{2}, 761$, ooo was in respect of horseshoes, 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 $2 \cdot 5$ per cent. of the total.

| Output |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | ---: | ---: | ---: |
|  |  |  |  |  |  | Value | Proportion <br> of total |

* Including repair work and also horse-shoeing when this was not included with horse-shoes and horse-shoeing above.
$\dagger$ Amount received.

Table II.-Size of establishments in 1935

| Size of establishment (average number employed) | ```Number of establish- ments``` | Gross output | Net output | Number of persons employed (excluding outworkers) | Net output per person employed |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. | $\begin{array}{r} f_{8}^{\prime} \text { ooo } \\ 845 \end{array}$ | $\begin{array}{r} \prime \prime \mathrm{OoO} \\ 443 \end{array}$ | $\begin{gathered} \text { No. } \\ 2,550 \end{gathered}$ | ${\underset{1}{\prime}}_{\substack{2}}$ |
| $\begin{array}{lll}11-24 & \cdots & \cdots \\ 25-49 & \cdots & \cdots\end{array}$ | 147 155 | 2,123 | r,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 | ェ,716 | 8,490 | 202 |
| 300-399 | 20 | 2,823 | 1,326 | 6,846 | 194 |
| 400-499 | 4 | 622 | 322 | r,800 | 179 |
| 500-749 ... | 4 | 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

| Area* | Number of establishments $\dagger$ | Gross output | Net output | Number of persons employed (excluding outworkers) | Net output per person employed |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{array}{r} \text { No. } \\ 64 \\ 47 \\ 47 \\ 50 \\ 58 \\ 49 \\ 11 \\ 13 \\ 312 \\ 260 \end{array}$ | $\begin{array}{r} \not \mathrm{f}^{\prime} 000 \\ \mathrm{I}, 275 \\ 915 \\ 1,679 \\ 1,549 \\ 2,140 \\ 1,699 \\ 300 \\ 376 \\ 12,880 \\ 9,897 \end{array}$ | $\begin{array}{r} \text { £'000 } \\ 737 \\ 526 \\ 956 \\ 864 \\ 963 \\ 795 \\ 113 \\ 135 \\ 1,583 \\ 4,86 I \end{array}$ | $\begin{array}{r} \text { No. } \\ 4,185 \\ 3,057 \\ 4,843 \\ 4,830 \\ 5,402 \\ 4,483 \\ 585 \\ 829 \\ 34,989 \\ 29,315 \end{array}$ | $\begin{gathered} t \\ 176 \\ 172 \\ 197 \\ 179 \\ 178 \\ 177 \\ 194 \\ 162 \\ 188 \\ 166 \end{gathered}$ |
| $\begin{array}{rrrr} 6 \ldots & \ldots & 1935 \\ 7 & \ldots & \ldots & 1935 \\ 8-\text { II } & \text { and } & 1935 \\ \text { I8 } & \ldots & 1935 \end{array}$ | $\begin{array}{r} 9 \\ 4 \\ 14 \end{array}$ | $\begin{array}{r} 482 \\ 38 \\ 459 \end{array}$ | $\begin{array}{r} 275 \\ 19 \\ 212 \end{array}$ | $\begin{array}{r} 1,079 \\ 114 \\ 933 \end{array}$ | $\begin{aligned} & 255 \\ & 164 \\ & 227 \end{aligned}$ |
| $\left.\begin{array}{cc} \text { 6-1I and } \\ \text { I8 } & \ldots \end{array}\right\} \begin{aligned} & \text { 1935 } \\ & \text { I930 } \end{aligned}$ | $\begin{aligned} & 27 \\ & 2 I \end{aligned}$ | $\begin{aligned} & 979 \\ & 54 \end{aligned}$ | $\begin{aligned} & 506 \\ & 289 \end{aligned}$ | $\begin{aligned} & 2,126 \\ & 1,167 \end{aligned}$ | $\begin{aligned} & 238 \\ & 248 \end{aligned}$ |
| $\begin{aligned} & 12 \text { and } 13\left\{\begin{array} { l }  { 1 9 3 5 } \\ { 1 9 3 0 } \\ { 1 9 \ldots } \end{array} \quad \cdots \left\{\begin{array}{l} 1935 \\ 1930 \end{array}\right.\right. \\ & \hline 10 \end{aligned}$ | 7 7 34 26 | $\begin{array}{r} 485 \\ 245 \\ 1,322 \\ 1,036 \end{array}$ | $\begin{aligned} & 139 \\ & 101 \\ & 513 \\ & 392 \end{aligned}$ | $\begin{array}{r} 832 \\ 628 \\ 3,088 \\ 2,616 \end{array}$ | $\begin{aligned} & 167 \\ & 161 \\ & 166 \\ & 150 \end{aligned}$ |
| $\begin{array}{llll}15 \ldots & \ldots & 1935 \\ 16 & \text { and } \\ \text { I7 } & 1935\end{array}$ | $\begin{aligned} & 5 \\ & 5 \end{aligned}$ | $\begin{aligned} & 121 \\ & 176 \end{aligned}$ | 57 68 | $\begin{aligned} & 287 \\ & 446 \end{aligned}$ | $\begin{aligned} & 199 \\ & 153 \end{aligned}$ |
| $15-17 \ldots\left\{\begin{array}{l} 1935 \\ 1930 \end{array}\right.$ | $\begin{array}{r} 10 \\ 9 \end{array}$ | $\begin{aligned} & 297 \\ & 205 \end{aligned}$ | $\begin{array}{r} 125 \\ 86 \end{array}$ | $\begin{aligned} & 733 \\ & 489 \end{aligned}$ | $\begin{aligned} & 17 \mathrm{I} \\ & 176 \end{aligned}$ |
| $\text { Total } \ldots\left\{\begin{array}{l} 1935 \\ 1930 \ddagger \end{array}\right.$ | $\begin{aligned} & 570 \\ & 482 \end{aligned}$ | $\begin{aligned} & 21,357 \\ & 16,465 \end{aligned}$ | $\begin{array}{r} 10,635 \\ 8,049 \end{array}$ | $\begin{aligned} & 56,783 \\ & 47,414 \end{aligned}$ | $\begin{aligned} & 187 \\ & 170 \end{aligned}$ |
| * For particulars see page xviii. <br> $\dagger$ Number of returns for 1930. <br> $\ddagger$ Excluding Northern Ireland. |  |  |  |  |  |

Table IV.-Sub-divisions of the industry

| Group |
| :--- |

Number of returns for 1930.
PRODUCTION
Table V.-Output of principal products

| Kind of output | 1935 |  |  | 1934 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Entries | Quantity | Value |
| Iron and steel :Anchors and grapnels and parts thereof | Th. tons | $£^{\prime} 000$ | No. | Th. tons | $£^{\prime} 000$ |
|  | $2 \cdot 7$ | 59 | 13 |  | 60 |
| Ships' chain cables | $9 \cdot 3$ | 279 | 21 | 7.5* | $213 *$ |
|  |  |  |  |  |  |
| Other welded and forged chain | 4.5 8.5 | 924 293 | 21 31 | $5 \cdot 2$ | 971 |
| Mattress and jack chain and similar chain made from wire | 1.2 |  | 6 | \} $9 \cdot 8$ | 401 |
| Other chain ... ... ... | $3 \cdot 5$ | 206 | 26 | ) |  |
| Total-Anchors and chains | $29 \cdot 7$ | 1,793 | $\ldots$ | $25 \cdot 2$ | 1,645 |
| 48570 |  |  |  |  | E 4 |



\begin{tabular}{|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Kind of output} \& \multicolumn{3}{|c|}{1935} \& \multicolumn{2}{|l|}{1934} <br>
\hline \& Quantity \& Value \& Entries \& Quantity \& Value <br>
\hline Iron and steel:-contd. Hooks, fasteners and shackles: \& \multirow[t]{7}{*}{Th. tons

I.0
$\cdots$
2.5
5.2
0.4

I.1
3.4} \& £'000 \& No. \& Th. tons \& t'ooo <br>

\hline $$
\begin{array}{rlcc}
\text { Fasteners } & \text { for machinery } \\
\text { belting } & \ldots & \ldots & \ldots
\end{array}
$$ \& \& \[

$$
\begin{aligned}
& 84 \\
& 18
\end{aligned}
$$
\] \& 9

2 \& $\} 0.6 \|$ \& 78|1 <br>
\hline Other descriptions ... \& \& 85 \& ${ }^{1} 7$ \& $\{2 \cdot 3$ \& 72 <br>

\hline | Horse shoes, sold |
| :--- |
| Frost cogs of iron and steel\\|... | \& \& 8 I \& 10 \& \[

\$ \cdot 7
\] \& 80 <br>

\hline Saddlery hardware, not elsewhere specified \& \& 114 \& 19 \{ \& I. 8 \& 167 <br>
\hline Springing and spring seating\| $\{$ \& \& 182
50 \& 7
4 \& I. I \& 21 <br>

\hline \multicolumn{5}{|l|}{| Forgings (including drop forgings), not elsewhere specified :- |
| :--- |
| Of iron |} \& <br>

\hline Of steel \& $5 \cdot 6$
$97 \cdot 3$ \& 183
$4, \mathrm{O} 2 \mathrm{I}$ \& 109
89 \& $7 \cdot 6$

$86 \cdot 3$ \& $$
\begin{array}{r}
259 \\
3.391
\end{array}
$$ <br>

\hline Total-Manufactures of iron and steel ... \& ... \& 17,967 \& $\ldots$ \& $\ldots$ \& 15,726 <br>
\hline \multicolumn{6}{|l|}{Brass :-} <br>
\hline Nails and tacks \& 0.6 \& 50 \& 17 \& 0.5 \& 45 <br>
\hline Rivets and washers \& 0.6 \& 93 \& 33 \& 0.6 \& 100 <br>
\hline Bolts and nuts ... ... \& $2 \cdot 5$ \& 387 \& 44 \& \& <br>
\hline \& Th. gross \& 107 \& 9 \& - \& 275 <br>

\hline Screws for wood ... ... \& $$
\begin{aligned}
& 3,376 \\
& \text { Th. tons }
\end{aligned}
$$ \& \} 273 \& го \& \& $44^{1}$ <br>

\hline \multirow[t]{5}{*}{| Copper :- |
| :--- |
| Nails and tacks Rivets and washers Bolts, nuts and screws |
| Forgings (including drop forgings), other than of iron or steel |} \& I. 5 \& \& \multirow[b]{2}{*}{19} \& \multirow[b]{3}{*}{\[

$$
\begin{aligned}
& 0.7 \\
& 0.5
\end{aligned}
$$

\]} \& \multirow[b]{4}{*}{\[

$$
\begin{array}{r}
64 \\
73 \\
3
\end{array}
$$
\]} <br>

\hline \& \& 50 \& \& \& <br>
\hline \& 0.6 \& 75 \& 19 \& \& <br>
\hline \& - 1 I \& \& 14 \& \& <br>
\hline \& 0.2 \& 34 \& 8 \& $\ldots$ \& 18 <br>
\hline Total-Manufactures of non-ferrous metals ... \& ... \& 1,077 \& ... \& ... \& 1,019 <br>

\hline \multirow[t]{2}{*}{| Repair and jobbing work (including wheelwrighting and horse-shoeing) |
| :--- |
| Work done for the trade |} \& \& \multirow[b]{2}{*}{\[

$$
\begin{aligned}
& 8 \mathrm{I} \ddagger \ddagger \\
& 59 \ddagger \ddagger
\end{aligned}
$$

\]} \& \multirow[t]{2}{*}{} \& \multirow[t]{2}{*}{} \& \multirow[b]{2}{*}{\[

$$
\begin{aligned}
& 38 \ddagger \ddagger \\
& 27 \ddagger
\end{aligned}
$$
\]} <br>

\hline \& ... \& \& \& \& <br>
\hline Total-Principal products \& \& 19, 184 \& $\ldots$ \& $\ldots$ \& 16,810 <br>
\hline
\end{tabular}

[^0]$\dagger$ Including steel transmission chains for vehicles
d figure
$\phi$ Except wire nails and staples, for which see the Wire Trade (page 147) § Not recorded separately
If 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 i
$\dagger \dagger$ Excluding clog irons returned by clog makers on schedules for the Boot and Trade (see page 443, Part I)
$\ddagger \ddagger$ 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.

| Kind of output | 1935 |  |  | 1934 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Entries | Quantity | Value |
| Iron and steel :- <br> Anchors and grapnels and parts thereof <br> Chains:- <br> Steel transmission <br> Other welded and forged chain <br> Mattress and jack chain and similar chain made from wire ... <br> Other chain ... | Th. tons | £'000 | No. | Th. tons | $\chi^{\prime} 000$ |
|  | O. I | 3 | 1 | 0.1 | 2 |
|  | $2 \cdot 5$ | 383 | 10 | $2 \cdot 4$ | 383 |
|  | o. I | 4 | 1 |  |  |
|  | $\begin{aligned} & 0.1 \\ & 0.5 \end{aligned}$ | 430 | 27 | $\}^{0 .}$ | 7 |
|  |  |  |  |  |  |
| Springs :- <br> Springs for small arms, clocks, watches, motor cars, motor cycles, musical instruments and ordnance |  | 92 | 8 | $2 \cdot 7$ | 117 |
|  | I. 8 |  |  |  |  |
| Other springs :Laminated | 10. 1 | 333 | 15 | $6 \cdot 5$ | 228 |
| Coil :- |  |  |  |  |  |
| Upholstery and mattress springs Other | $\begin{aligned} & 5 \cdot 4 \\ & \mathrm{I} \cdot 7 \end{aligned}$ | $\begin{array}{r} 163 \\ 93 \end{array}$ | $\begin{aligned} & 15 \\ & 10 \end{aligned}$ | $\begin{aligned} & 3.8 \\ & 0.8 \end{aligned}$ | $\begin{array}{r} 123 \\ 54 \end{array}$ |
| Fencing material (other than fencing wire) of cast or wrought iron :- |  |  |  |  |  |
| Standards ... ... | 3.213.8 | 51291 | 437 | 2.411.1 | $\begin{array}{r} 33 \\ 252 \end{array}$ |
| Other sorts $\ldots \ldots$ |  |  |  |  |  |
| Nails and tacks (other than wire nails and staples) | $\begin{aligned} & 0.4 \\ & 7.7 \end{aligned}$ | 7103 | 517 | $\begin{aligned} & 0 \cdot 3 \\ & 7 \cdot 0 \end{aligned}$ | ${ }^{3}$ |
| Rivets and washers ... $\ldots$ |  |  |  |  |  |
| Bolts and nuts (including screws for metal) :Bright | $\begin{aligned} & 0.9 \\ & \text { t. } 9 \end{aligned}$ | 7659 | II | 0. 9I. 4 | 6430 |
| Bright <br> Other than bright |  |  |  |  |  |
| Heel tips, boot protectors, studs, spikes and clog irons | $0 \cdot 5$ | 16 | 5 | 0.4 | 15 |
| Hooks, fasteners and shackles (other than for machinery belting) | $0 \cdot 3$ | 10 | 3 | $0 \cdot 3$ | 10 |
| Saddlery hardware not elsewhere specified | 0.2 | $\begin{array}{r} 5 \\ 5 \\ 23 \end{array}$ | 31 | $\}^{\ldots} 0.5$ | 48 |
| Springing and spring seating \{ |  |  |  |  |  |
| Forgings (including drop forgings), not elsewhere specified :- | $\begin{aligned} & 3 \cdot 1 \\ & 0 \cdot I \end{aligned}$ | 904 | 79 | 2.50.1 | 783 |
| Of iron <br> Of steel |  |  |  |  |  |
| Brass:- <br> Nails and tacks <br> Rivets and washers <br> Bolts, nuts and screws | $0.3$ | $\begin{array}{r} 1 \\ 5 \\ 35 \\ 10 \end{array}$ | 1224 | $\begin{aligned} & 0.2 \\ & 1.0 \\ & 0.4 \end{aligned}$ | 6226 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| Copper :- <br> Nails and tacks <br> Rivets and washers <br> Forgings (including drop forgings) other than of iron and steel ... <br> Repair and jobbing work | $\begin{gathered} * \\ 0.2 \end{gathered}$ | 315 | 12 | $\begin{aligned} & 3.6 \\ & 0.6 \end{aligned}$ | 245 |
|  |  |  |  |  |  |
|  | 0. I | $\stackrel{10}{12 \dagger}$ | $2{ }^{2} 8$ | 二 | - |
|  |  |  |  |  |  |
| Total |  | 1,936 |  |  | 1,570 |

CHAIN, NAIL, SCREW, ETC
Table VI.-Average values of goods produced, exported and imported


* Described as ship's cables
$\dagger$ Not recorded separately.
$\ddagger$ Except springs for locks and latches.
§ The figures for the two years are not strictly comparable-see footnote (§§) to

Table VII.-Volume of Production, 1924-1935


* 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


* Described as ship's chain cables
+ Including steel transmission chains for road vehicles
$\ddagger$ 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)
De footnote (T) 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 $£_{17} 7,248,000$ in I935 and $£ 15,240,000$ in I934 consisted of products included in Table V. Particulars of the remaining items are shown below.

| Kind of output | 1935 | 1934 |
| :---: | :---: | :---: |
| Manufactures of iron and steel :- | £'ooo | f'ooo |
| Wire nails (including staples) | 390 | 379 |
| Tools and implements (including machine tools) | 19 | 12 |
| Iron and steel castings ... | 124 | 83 |
| Railway material (including tyres and axles) | 295 | 238 |
| Iron and steel stampings ... | 174 | 244 |
| Buils, hasps and hinges of metal | 249 42 | 292 |
| Gears and gear wheels, other than for vehicles | 37 |  |
| Fabricated iron and steel ... ... ... | 73 | 710 |
| Other iron and steel manufactures | 676 |  |
| Manufactures of non-ferrous metals :- |  |  |
| Stampings ... ... | 120 | 149 |
| Other manufactures ... ... ... ... | 435 |  |
| Vehicles and parts and accessories (except axles) | 458 | 422 |
| Products of the Mechanical Engineering Trade | 409 | 291 |
| Other goods made ... | 18I | 109 |
| Scrap metal sold :- |  |  |
| Iron and steel |  | 254 |
| Brass ... | $\text { ( } 134,500 \text { tons) }$ | (II7,700 tons) |
|  | (3,100 tons) | (4,300 tons) |
| $\begin{array}{llll}\text { Copper... } & . . \\ \text { Other metals }\end{array}$ | 14 | 4 |
| Work done :- |  | 6 |
| Constructional engineering | $24 *$ | 38* |
| Galvanising ... ... | 8* | 7* |
| Total | 4,109 | 3,751 |

* Amount received.

MATERIALS AND FUEL
Table X A.-Materials, fuel and electricity purchased and used

\begin{tabular}{|c|c|c|c|c|}
\hline \multirow{2}{*}{Kind of materials, etc.} \& \multicolumn{2}{|l|}{1935} \& \multicolumn{2}{|c|}{1934} <br>
\hline \& Quantity \& Cost \& Quantity \& Cost <br>
\hline \& Th. tons \& £'000 \& Th. tons \& £'000 <br>
\hline Iron:- \& $48 \cdot 6$ \& 43I \& $42 \cdot 6$ \& 350 <br>
\hline Wire and rods ... \& $9 \cdot 5$ \& 129 \& 10. 5 \& 132 <br>
\hline Other kinds ... ... \& 15.2 \& 133 \& 18.3 \& 161 <br>
\hline Steel :- \& \& \& \& <br>
\hline Bars
Wire and rods

Ote \& 384.9 \& 3,619 \& $334 \cdot 7$ \& <br>

\hline | Wire and rods | $\ldots$ | $\ldots$ |
| :--- | :--- | :--- |
| Other kinds | $\ldots$ | $\ldots$ | \& 108.0

151.3 \& I, 368
I, 38 I \& 97.5
r 3.1 \& 1,228
I, 280 <br>
\hline Other kinds
Copper (in all forms) \& 151.3
I.
r \& I,381 82 \& 133.1
I. $5^{*}$ \& 1,280
80 <br>
\hline Brass (in all forms) ... ... ... \& 12.8 \& 605 \& II. 8 \& 557 <br>
\hline Fuel and electricity used for all purposes :- \& \& \& \& <br>
\hline  \& $254 \cdot 7$ \& 218 \& \& <br>

\hline Coke \& | $74 \cdot 2$ |
| :--- |
| Th. galls. | \& 103 \& \& <br>

\hline Heavy fuel oil ... ... \& $$
\begin{aligned}
& \text { I2,450 } \\
& \text { Th. B.T.U. } \\
& \text { (Kw.-hrs.) }
\end{aligned}
$$ \& 209 \& \& 2,568 <br>

\hline Purchased electricity $\dagger \ldots$ \& 84,762 \& 272 \& \& <br>
\hline All other purchased materials and \& ... \& 1,986 \& \& <br>
\hline Total \& $\ldots$ \& 10,536 \& ... \& 9,491 <br>
\hline
\end{tabular}

* Corrected figure.
$\dagger$ Including electricity generated in other works under the same ownership.

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

| Kind of fuel |  |  |  |  |  |  |  |  | 1935 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

EMPLOYMENT
Table XI A.-Average numbers employed in 1935 and 1934

| Persons employed | Males |  | Females |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Under 18 | $\begin{aligned} & \text { All } \\ & \text { ages } \end{aligned}$ | $\begin{gathered} \text { Under } \\ \text { I8 } \end{gathered}$ | $\begin{aligned} & \text { All } \\ & \text { ages } \end{aligned}$ | $\begin{aligned} & \text { Under } \\ & { }_{18} \end{aligned}$ | $\begin{aligned} & \text { All } \\ & \text { ages } \end{aligned}$ |
| Operatives (average for $\{1935$ the year) |  | $33,985$ | 5,072 | $16,860$ | I1,263 | 50,845 |
| Administrative, technical ${ }_{\text {a }} 1934$ | $\begin{array}{r} 5,174 \\ 330 \end{array}$ | $\begin{array}{r} 3 I, O I 3 \\ 3,874 \end{array}$ | 4,542 397 | $\begin{array}{r} 16,052 \\ 2,064 \end{array}$ |  | 47,065 5,938 |
| and clerical staff* ... 1934 | 213 |  |  | 1,916 | 52 I | 5,64I |
| Total ... ... $\left\{\begin{array}{l}1935 \\ \text { 1934 }\end{array}\right.$ | $\begin{aligned} & 6,521 \\ & 5,387 \end{aligned}$ | $\begin{aligned} & 37,859 \\ & 34,738 \end{aligned}$ | $\begin{aligned} & 5,469 \\ & 4,850 \end{aligned}$ | $\begin{aligned} & 18,924 \\ & 77,968 \end{aligned}$ | $\left\lvert\, \begin{aligned} & 11,990 \\ & \text { Io,237 } \end{aligned}\right.$ | $\begin{array}{\|l\|l} 56,783 \\ 52,706 \end{array}$ |
| $\begin{array}{ccc}\text { Average number of out- } \\ \text { workers } & \ldots\end{array} . \quad \ldots\left\{\begin{array}{l}1935 \\ 1934\end{array}\right.$ | $\begin{aligned} & 36 \mathrm{I} \\ & 240 \end{aligned}$ |  | $\begin{array}{r} 117 \\ 79 \end{array}$ |  | $\begin{aligned} & 47^{8} \\ & 319 \end{aligned}$ |  |

* As at 12th October, 1935, and I3th 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


* For the ending date of

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

| Year |  |  |  | Operatives | Administrative, <br> technical and <br> clerical staff | Total <br> (excluding <br> outworkers) |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| $1924^{*}$ | $\ldots$ | $\cdots$ | $\cdots$ | 34,205 | 3,487 | 37,692 |
| $1930^{*}$ | $\cdots$ | $\cdots$ | $\cdots$ | 42,606 | 4,808 | 47,414 |
| 1933 | $\cdots$ | $\cdots$ | $\cdots$ | 39,812 | $5,13 \mathrm{I}$ | 44,943 |
| 1934 | $\cdots$ | $\cdots$ | $\cdots$ | 47,065 | $5,64 \mathrm{I}$ | 52,706 |
| 1935 | $\cdots$ | $\cdots$ | $\cdots$ | 50,845 | 5,938 | 5,783 |

* 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 $f 2,808,000$ in 1935 representing 50.7 per cent. of the net wages was $\hbar_{2}^{2,808,000}$ output of these firms, the corresponding figures for 1930 being $f 2,783,000$ and 62.7 per cent. The figures for these firms given below $\epsilon_{\text {indicate the size of the sample and the extent to which it is repre- }}^{2,783,000}$ sentative. sentative

| Firms furnishing returns of wages | 1935 |  | 1930* |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Aggregate | Proportion of trade | Aggregate | Proportion of trade |
| Gross output. <br> Net output | $\begin{gathered} \text { f }_{\text {'II }, 260} \\ 5,54^{\circ} \end{gathered}$ | $\begin{gathered} \text { Per cent. } \\ 52 \cdot 7 \\ 52 \cdot \mathrm{I} \end{gathered}$ | $\begin{gathered} f^{\prime} \text { 'ooo } \\ 9,184 \\ 4,436 \end{gathered}$ | $\begin{gathered} \text { Per cent. } \\ 55 \cdot 8 \\ 55 \cdot 1 \end{gathered}$ |
| Operative staff employed :During mid-week of October :Males Females | No. <br> 18,448 8,960 | $\begin{aligned} & 54 \cdot 2 \\ & 52 \cdot 5 \end{aligned}$ | No. | $\dagger$ |
| Total | 27,408 | $53 \cdot 2$ | 23,238 | $55 \cdot 6$ |
| Average for the year ... | 27,018 | $53 \cdot 1$ | 23,927 | $56 \cdot 2$ |
| Administrative, technical and clerical staff <br> Number of establishments | $\begin{array}{r} 2,999 \\ 314 \end{array}$ | $\begin{aligned} & 50 \cdot 5 \\ & 55 \cdot 0 \end{aligned}$ | $\dagger$ | $\dagger$ |

[^1]
## COUNTRY TABLES (1935)

Note.-The figures given in the following tables relate only to firm 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 used | £'000 | 19,738 | 1,619 | 21,357 |
| Amount paid for work given out | ", | 9,574 167 | $962$ | 10,536 |
| Net output | ", | $\begin{array}{r} 167 \\ 9,997 \end{array}$ | $\begin{array}{r} 19 \\ 638 \end{array}$ | 186 10,635 |
| Average number of persons employed (excluding outworkers) | No. | 52,962 | 3 821 | 10,635 |
| Net output per person employed (excluding outworkers) | No. | 52,962 189 | 3,821 167 | 56,783 |
| Number of returns $\ldots$... $\ldots$... | $\stackrel{\text { No. }}{\text { No. }}$ | 189 502 | 167 39 | 54 I |
| Number of establishments | , | 526 | 44 | 570 |

Table II.-Output


CHAIN, NAIL, SCREW, ETC.



[^2]separate particulars cannot be given.
$\dagger$ Including steel transmission chains for vehicles
See footnote (T) to Table V, page II9.
$\ddagger$ Less than 500 .

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


* Less than 50 tons.
* Less than 50 tons.
$\dagger$ Including electricity generated in other works under the same ownership.

Table III B.-Consumption of electricity

| Electricity consumed | England and Wales and Northern Ireland | Scotland | United Kingdom |
| :---: | :---: | :---: | :---: |
| Generated in same works ... ... | $\begin{aligned} & \text { Th. B.T.U. } \\ & \text { (Kw.-hrs.) } \\ & 2,400 \end{aligned}$ | Th. B.T.U. <br> (Kw.-hrs.) <br> 534 | Th. B.T.U. <br> (Kw.-hrs.) 2,934 |
| Generated in other works under same ownership <br> Purchased | $\begin{array}{r} 717 \\ 77,850 \end{array}$ | $\overline{6,195}$ | $\begin{array}{r} 717 \\ 84,045 \end{array}$ |
| Total ... ... ... | 80,967 | 6,729 | 87,696 |

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

| Persons employed (excluding outworkers) | Males |  | Females |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Under } \\ \text { I } 8 \end{gathered}$ | $\begin{aligned} & \text { All } \\ & \text { ages } \end{aligned}$ | $\begin{aligned} & \text { Under } \\ & \text { I8 } \end{aligned}$ | $\begin{aligned} & \text { All } \\ & \text { ages } \end{aligned}$ | $\begin{aligned} & \text { Under } \\ & \text { I8 } \end{aligned}$ | $\begin{aligned} & \text { All } \\ & \text { ages } \end{aligned}$ |
| England and Wales and Northern Ireland :Operatives ... Administrative, etc.* | $\begin{array}{r} 5,584 \\ 3 \mathrm{II} \end{array}$ | $\begin{array}{r} 31,684 \\ 3,626 \\ \hline \end{array}$ | $\begin{array}{r} 4,859 \\ 391 \end{array}$ | $\begin{array}{r} \mathrm{I} 6,275 \\ \mathrm{I}, 966 \end{array}$ | $\begin{array}{r} 10,443 \\ 702 \end{array}$ | $\begin{array}{r} 47,959 \\ 5,592 \end{array}$ |
| Total | 5,895 | 35,310 | 5,250 | 18,24 1 | 11,145 | 53,551 |
| Scotland :Operatives Administrative, etc.* | $\begin{array}{r} 685 \\ \text { I9 } \end{array}$ | $\begin{array}{r} 2,724 \\ 248 \end{array}$ | 276 6 | 794 98 | $\begin{array}{r} 96 \mathrm{I} \\ 25 \end{array}$ | $\begin{array}{r} 3,5 \mathrm{I} 8 \\ 346 \end{array}$ |
| Total | 704 | 2,972 | 282 | 892 | 986 | 3,864 |
| United Kingdom :Operatives Administrative, etc.* | $\begin{array}{r} 6,269 \\ 330 \end{array}$ | $\begin{array}{r} 34,408 \\ 3,874 \end{array}$ | $\begin{array}{r} 5, \mathrm{I} 35 \\ 397 \end{array}$ | $\begin{array}{r} 17,069 \\ 2,064 \end{array}$ | $\begin{array}{r} 11,404 \\ 727 \end{array}$ | $\begin{array}{r} 51,477 \\ 5,938 \end{array}$ |
| 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


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


No outworkers were recorded by firms in Northern Ireland.

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

| Particulars |  |  |  | England <br> and Wales <br> and <br> Northern <br> Ireland | Scotland | United <br> Kingdom |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |


[^0]:    * Described as ships' cables.

[^1]:    Not recorded separately

[^2]:    * Owing to the possible disclosure of information relating to individual firms,

