## THE HARDWARE, HOLLOW-WARE, METALLIC FURNITURE AND SHEET MTTAL TRADES

Note.-For information regarding the scope of the Census, instructions given to firms for making returns, and definitions of the terms used in this report, reference should be made to the Introductory Notes on pages v to xviii.

## Introductory

This trade comprises firms that were engaged in the manufacture of a large variety of finished metal goods, including household and industrial hollow-ware, bedsteads, hearth furniture, safes, locks and keys, etc. The great bulk of these products consisted of iron and steel but, in some cases, brass and other metals formed the main or sole material. Firms whose principal business consisted in the manufacture of finished brass goods were grouped as a distinct trade (see page 460), but as finished brass goods were classified on a different basis from that used for similar goods of iron or steel it is not possible to arrive at aggregate production figures for many classes of finished goods in the manufacture of which brass is used as an alternative material.

For the purposes of this report, particulars of production, prices, and overseas trade are given separately for the four sections indicated on page 93 ; for each of the remaining heads of information, the trade is treated as a combined whole.

The following table shows the main results of the Censuses of 1930 and 1924 in respect of firms in Great Britain that employed an average of more than ten persons:-


[^0]Deficiencies in 1930 aggregates.-The aggregate number of persons employed in 1930 by firms that stated that they employed not more than ten persons on the average was 10,095 , the corresponding figure for 1924 being 7,390 .

In addition, 288 firms to which schedules were sent at the 1930 Census and 450 at that of 1924 furnished no information; these firms either had small businesses or had ceased productive operations before the end of the censal year.

The value of the gross output of the small firms in 1924 was $£ 1,553,000$ (including $£ 48,000$ in respect of all firms in Northern Ireland), and particulars of the principal items included in this figure are given below :-

$$
\begin{aligned}
& \text { Hollow-ware, including tin boxes and containers } \\
& \text { Sheet metal work, including stampings, pressings, } \\
& \text { piercings, spinnings, etc. } \\
& \text { Work done for the trade, including jobbing iron- } \\
& \text { mongery and repair work } \\
& \text { Total } \\
& 1,553
\end{aligned}
$$

The output of the small firms formed about 40 per cent. of the total amount recorded for 1924 in respect of repairs and other work done, but only about 4 per cent. of the total value of goods made.

Size of firms.-In the following table the main particulars recorded at the Census of 1930 are grouped according to the average numbers of persons shown in the returns :-

| Size of firm <br> (average <br> numbers <br> employed) | Number of <br> returns | Gross <br> output | Net <br> output | Average <br> number <br> of persons <br> employed | Net <br> output <br> per person <br> employed |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | No. | $£^{\prime} 000$ | $£^{\prime} 000$ | No. | $£$ |
| $11-24 \ldots$ | $\ldots$ | 296 | 1,637 | 939 | 5,251 | 179 |
| $25-49 \ldots$ | $\ldots$ | 251 | 2,977 | 1,512 | 8,751 | 173 |
| $50-99 \ldots$ | $\ldots$ | 175 | 4,324 | 2,129 | 12,189 | 175 |
| $100-199$ | $\ldots$ | 104 | 4,827 | 2,423 | 13,740 | 176 |
| $200-299$ | $\ldots$ | 40 | $3,541$. | 1,883 | 9,782 | 193 |
| $300-399$ | $\ldots$ | 21 | 2,746 | 1,410 | 7,302 | 193 |
| $400-499$ | $\ldots$ | 10 | 2,009 | 995 | 4,423 | 225 |
| $500-749$ | $\ldots$ | 18 | 3,406 | 1,714 | 10,802 | 159 |
| 750 and over | $\ldots$ | 10 | 3,110 | 1,682 | 10,360 | 162 |
| Total | $\ldots$ | 925 | 28,577 | 14,687 | 82,600 | 178 |

Regional distribution.-In the following table the results recorded at the Censuses of 1930 and 1924 are grouped according to the principal areas* of Great Britain in which firms in this trade are situated :-


Northern Ireland.-Owing to the risk of disclosing particulars relating to individual firms, separate details of the production of the Hardware, Hollow-ware, Metallic Furniture and Sheet Metal Trades in Northern Ireland were not published for the year 1930, the information obtained being combined with that for the Tool and Implement and Cutlery Trades. The aggregate figures recorded in respect of these trades for 1930 are shown below, together with separate particulars for the Hardware, Hollow-ware, MetallicFurniture and Sheet Metal Trades and the Tool and Implement Trade in 1924. No production of cutlery was recorded for Northern Ireland in 1924.

|  |  | 1930 |  |
| :--- | :---: | :---: | :---: | :---: | :---: |

The above figures for 1930 relate to firms that employed an average of more than five persons and those for 1924 to all firms.
Sub-divisions of the industry.-In the following table the results of the 1930 Census are grouped in 11 separate sections, each of which comprises firms whose main business consisted in the class of production specified in the first column. Comparable figures for 1924 can only be given in the more general grouping indicated in the table.


[^1]
## Production

The output of these trades is dealt with below in the following four sections :-
(1) Hollow-ware (for industrial and domestic purposes);
(2) Bedsteads, wire mattresses and hearth furniture;
(3) Safes, locks, latches and keys ;
(4) Other products, mainly of sheet metal.
(1) Hollow-ware.-The following table shows the quantities (where available) and values of the various classes of industrial and household hollow-ware made in 1930 and 1924 :-

\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline \multirow{4}{*}{Kind of goods} \& \multicolumn{6}{|c|}{1930} \& \multicolumn{2}{|c|}{1924} \\
\hline \& \multicolumn{6}{|c|}{Returned on schedules for} \& \multicolumn{2}{|c|}{\multirow[b]{2}{*}{Total}} \\
\hline \& \multicolumn{3}{|l|}{The Hardware, Hollow-ware, etc. Trades} \& \multicolumn{3}{|c|}{All trades} \& \& \\
\hline \& \[
\begin{aligned}
\& \text { Quan- } \\
\& \text { tity }
\end{aligned}
\] \& Value \& \[
\begin{aligned}
\& \text { Ent- } \\
\& \text { ries }
\end{aligned}
\] \& Quantity \& Value \& Entries \& \[
\begin{aligned}
\& \text { Quan- } \\
\& \text { tity }
\end{aligned}
\] \& Value \\
\hline \multirow[b]{4}{*}{\begin{tabular}{l}
Hollow-ware for domestic purposes: Of wrought iron and steel- \\
\(\left.\begin{array}{cc}\text { Not enamelled, } \\ \text { tinned } \\ \text { galvanised } \\ \text { Enamelled }\end{array}\right\}\)
\end{tabular}} \& Th. tons \& £'000 \& No. \& Th. tons \& \(£^{\prime} 000\) \& No. \& Th. tons \& \(£^{\prime} 000\) \\
\hline \& \multirow[t]{2}{*}{tons

1.5
$*$} \& \multirow[b]{2}{*}{59
39} \& \multirow[b]{2}{*}{21

8} \& \multirow[t]{2}{*}{$$
\underset{*}{1 \cdot 5}
$$} \& \multirow[b]{2}{*}{59

39} \& \multirow[b]{2}{*}{$$
\begin{array}{r}
21 \\
8
\end{array}
$$} \& \multirow[t]{2}{*}{tons} \& \multirow[b]{2}{*}{237} <br>

\hline \& \& \& \& \& \& \& \& <br>
\hline \& $16 \cdot 6$ \& 1,118 \& 29 \& $16 \cdot 8$ \& 1,132 \& 32 \& \& 1,177 <br>
\hline Galvanised \{ \& $\underset{*}{23} 8$ \& 747
175 \& 55
20 \& $24 \cdot 5$ \& 768 \& 56
21 \& $\} 28.0$ \& 1,143 <br>
\hline Tinned or of tinplate ... \& ${ }_{*}^{5 \cdot 3}$ \& 296
447 \& 44 \& ${ }_{*}^{5 \cdot 3}$ \& 299
448 \& 46

40 \& ${ }_{*}^{12 \cdot 6}$ \& | 878 |
| :--- |
| 393 | <br>

\hline $\left.\begin{array}{c}\text { Not separately } \\ \text { distinguished }\end{array}\right\}$ \& $5 \cdot 0$ \& 157 \& 4 \& $5 \cdot 0$ \& 159 \& 5 \& - \& - <br>
\hline Of cast iron- \& \& \& \& \& \& \& \& <br>
\hline Not enamelled or tinned \& $1 \cdot 4$ \& 40 \& 7 \& $1 \cdot 6$ \& 43 \& 10 \& $5 \cdot 2$ \& 105 <br>
\hline Enamelled
tinned... or $\{$ \& ${ }_{*}^{1} \cdot 1$ \& 46
15 \& 10
1 \& ${ }_{*}^{1.5}$ \& 76
15 \& 13
1 \& ${ }_{*}^{4} \cdot 0$ \& 1213
33 <br>
\hline $\left.\begin{array}{c}\text { Not separately } \\ \text { distinguished }\end{array}\right\}$ \& - \& 15 \& - \& $0 \cdot 5$ \& 20 \& 4 \& - \& 83 <br>
\hline Of wrought or cast iron and steel, not separately distinguished \& - \& - \& - \& - \& - \& $-\{$ \& ${ }_{*} \cdot 9$ \& 109
268 <br>

\hline Of aluminium \{ \& ${ }_{*}^{*} 6$ \& \[
$$
\begin{aligned}
& 455 \\
& 476
\end{aligned}
$$

\] \& \[

$$
\begin{aligned}
& 15 \\
& 19
\end{aligned}
$$

\] \& ${ }_{*} \cdot 7$ \& \[

$$
\begin{aligned}
& 468 \\
& 493
\end{aligned}
$$

\] \& \[

$$
\begin{aligned}
& 18 \\
& 20
\end{aligned}
$$
\] \& * 1.0 \& 357

259 <br>
\hline Total - Hollow-ware for domestic purposes \& $\ldots$ \& 4,070 \& $\ldots$ \& $\ldots$ \& 4,194 \& $\ldots$ \& ... \& 5,172 <br>
\hline
\end{tabular}

| Kind of goods | 1930 |  |  |  |  |  | 1924 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Returned on schedules for |  |  |  |  |  | Total |  |
|  | The Hardware, Hollow-ware, etc. Trades |  |  | All trades |  |  |  |  |
|  | $\begin{array}{r} \text { Quan } \\ \text { tity } \end{array}$ | Value | $\begin{array}{\|c\|} \hline \text { Ent- } \\ \hline \text { ries } \\ \hline \end{array}$ | $\begin{array}{r} \text { Quan } \\ \text { tity } \end{array}$ | Value | Entries | Quan- | Value |
| Hollow-ware for industrial and other purposes :Of wrought iron and steel- | Th. tons | £'000 | No. | Th. tons | £'000 | No. | Th. tons | $£^{\prime} 000$ |
| Tin boxes and $\{$ containers | $126 \cdot 2$ | $\begin{aligned} & 2,917 \\ & 2,929 \end{aligned}$ | 60 56 | $126 \cdot 3$ | 2,922 3,290 | 61) | ${ }_{*}^{46 \cdot 5}$ | $\begin{aligned} & 2,368 \dagger \\ & 5,799 \dagger \end{aligned}$ |
| Kegs and drums $\{$ | $\underset{*}{29 \cdot 2}$ | 700 | 26 | $\underset{*}{29 \cdot 2}$ | 700 650 88 | 26 <br> 31 |  |  |
| Vats, tanks and $\}$ cisterns | $\underset{*}{22 \cdot 6}$ | 749 | $\begin{aligned} & 31 \\ & 26 \\ & 26 \end{aligned}$ | ${ }_{*}^{27 \cdot 3}$ | $\begin{array}{r} 850 \\ 1,244 \end{array}$ | 47 59 |  |  |
| $\left.\begin{array}{r} \text { Other sorts, not } \\ \text { elsewhere speci- } \\ \text { fied ... } \end{array}\right\}$ | ${ }_{*}^{10.5}$ | 304 180 | $\begin{aligned} & 29 \\ & 31 \end{aligned}$ | ${ }_{*}^{10 \cdot 5}$ | 304 209 | $\begin{aligned} & 29 \\ & 40 \end{aligned}$ |  |  |
| Of cast iron... | ${ }_{*}^{0.9}$ | 44 | $\begin{aligned} & 5 \\ & 2 \end{aligned}$ | $\underset{*}{2 \cdot 3}$ | $\begin{aligned} & 77 \\ & 49 \end{aligned}$ | $\left.\begin{array}{l} 9 \\ 8 \end{array}\right\}$ | $\ddagger$ | $\ddagger$ |
| Of aluminium- Vats, tanks, etc. | $\ldots$ | 9 |  |  | 91 |  |  | 17 |
| Total - Hollow-ware for industrial and other purposes ... | $\ldots$ | 9,157 | $\ldots$ | $\ldots$ | 10,388 | $\ldots$ | ... | 8,184 |
| Hollow-ware not separately distinguished | - | - | - | - | - | - | ... | 1,110 |
| Cash and deed boxes, trunks, suit-cases, etc., of sheet iron and steel ... | ${ }_{*}^{0 \cdot 8}$ | $\begin{aligned} & 84 \\ & 85 \end{aligned}$ | $\begin{aligned} & 15 \\ & 14 \end{aligned}$ | $\underset{*}{0 \cdot 8}$ | $\begin{aligned} & 84 \\ & 85 \end{aligned}$ | $\begin{aligned} & 15 \\ & 14 \end{aligned}$ | $\underset{*}{2 \cdot 2}$ | $\begin{aligned} & 205 \\ & 128 \end{aligned}$ |
| Total-Hollow-ware | $\ldots$ | 13,396 | $\ldots$ | ... | 14,751 | ... | ... | 14,799 |

* Quantity not stated.
$\dagger$ These figures are made up of the following items :-
Boxes, containers, etc., of tinplate
Metal boxes and containers, tanks, cisterns, drums, kegs, etc., not separately distinguished
$\ddagger$ Not separately recorded.
Of the total value of hollow-ware of all kinds shown as returned for 1930 on schedules for the Hardware, etc., Trades (£13,396,000) the output of the firms that are classified as manufacturers of hollow-ware in the table on page 92 (groups (1) to (6) inclusive) amounted to $£ 12,720,000$, while the value of other goods made and work done by those firms amounted to $£ 1,528,000^{*}$. These
* Other manufactures, $£ 1,061,000$; scrap metal sold, $£ 161,000$; and work done for the trade, $£ 306,000$.
figures show that the manufacture of hollow-ware is substantially a self-contained industry, carried on by firms specialising very largely in that class of production. In connection with the particulars recorded for wrought enamelled hollow-ware, it should be noted that the Finance Act, 1928, imposed a duty of 25 per cent. ad valorem on imports of such goods for a period of five years from 13th June, 1928.

Prices.-The average selling values of certain classes of hollowware in 1930 and 1924, as calculated from the Census returns, are shown in the following table. It should be borne in mind that these comparisons do not take account of any changes that may have occurred since the earlier year in the quality or type of goods included under the specified descriptions. A similar comparison cannot be made in respect of the various classes of industrial hollow-ware, owing to the small proportion of the output for which particulars of quantity were furnished at the 1924 Census.

| Kind of goods | Average value |  | 1930 as a percentage of 1924 |
| :---: | :---: | :---: | :---: |
|  | 1930 | 1924 |  |
|  | £ per ton | £ per ton | Per cent. |
| Domestic hollow-ware :Of wrought iron and steel- |  |  |  |
| Not enamelled or tinned or galvanised | $40 \cdot 7$ | $52 \cdot 9$ | $76 \cdot 9$ |
| Enamelled ... ... ... ... | $67 \cdot 5$ | $84 \cdot 0$ | $80 \cdot 3$ |
| Galvanised ... | $31 \cdot 4$ | $40 \cdot 8$ | $76 \cdot 9$ |
| Tinned or of tinplate ... ... | $56 \cdot 3$ | $69 \cdot 5$ | $81 \cdot 0$ |
| Of cast iron- |  |  |  |
| Not enamelled or tinned | $27 \cdot 9$ | $20 \cdot 2$ | $138 \cdot 1$ |
| Enamelled or tinned | $50 \cdot 4$ | $52 \cdot 8$ | $95 \cdot 4$ |
| Of aluminium ... ... ... ... | $282 \cdot 6$ | $372 \cdot 4$ | $75 \cdot 9$ |
| Cash and deed boxes, suit-cases, trunks, etc. of sheet iron or steel | $109 \cdot 3$ | $92 \cdot 1$ | $118 \cdot 6$ |

Production, exports and imports.-Owing to the large output of hollow-ware that was recorded only in terms of value and to differences in classification, no precise comparison can be made between the production and the exports and retained imports of hollowware. It is, however, evident from the following table that, except as regards wrought enamelled hollow-ware, the home market was substantially supplied by home products in both years. In the case of wrought enamelled hollow-ware, imports formed about one quarter of the available supplies for the home market in 1930; in 1924 the proportion was probably somewhat greater, but the large unclassified output in that year renders any exact comparison impossible.

| Kind of goods | Exports |  | Retained imports |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Quantity | Value |
| Hollow-ware (for household, industrial, etc. use) :Of iron and steel- | Tons | $£^{\prime} 000$ | Tons | £'000 |
| Cast, not enamelled, etc. ... $\left\{\begin{array}{l}1930 \\ 1924\end{array}\right.$ | $\begin{aligned} & 3,238 \\ & 6,044 \end{aligned}$ | $\begin{array}{r} 89 \\ 199 \end{array}$ | $\begin{aligned} & 19 \\ & 16 \end{aligned}$ | 2 |
| Cast, enamelled ... ... 1930 | 832 | 71 | 24 | 12 |
| Cast, enamelled $\quad \cdots \quad \cdots\{1924$ | 1,069 | 111 | 246 | 13 |
| Cast, tinned ... $\cdots$. 1930 | 734 771 | 43 | 21 5 | * ${ }^{2}$ |
|  | 342 | 22 | 115 | 6 |
| Wrought, not enamelled ... 1924 | 916 | 63 | 69 | 6 |
| Wrought, enamelled $\ldots\left\{\begin{array}{l}1930 \\ 1924\end{array}\right.$ | 2,096 2,749 | 191 335 | 5,009 5,762 | $255$ |
| Wrought, enamed $\quad . .\left\{\begin{array}{l}1924 \\ 1930\end{array}\right.$ | 2,749 | 335 143 | 5,762 880 | 335 26 |
| Wrought, galvanised $\quad \cdots\left\{\begin{array}{l}1924\end{array}\right.$ | 4,17\% | 221 | 8 | 1 |
| Of tinned plate ... ... $\begin{aligned} & 1930 \\ & 1924\end{aligned}$ | 2,240 | 153 | 64 | 7 |
| Of aluminium :- 1924 | 3,138 | 286 | 120 | 15 |
| Domestic hollow-ware ... $\left\{\begin{array}{l}1930 \\ 1924\end{array}\right.$ | 323 | 78 | 344 | 85 |
| Domestic hollow-ware … 1924 | 397 | 215 | 204 | 60 |
| $\begin{array}{cc}\text { Vats, tanks, etc. for indus- } \\ \text { trial purposes } \ldots & 1930 \\ 1924\end{array}$ | 38 4 | 5 3 | ${ }_{+}^{14}$ | $\dagger^{1}$ |
| $\left.\begin{array}{cccc}\text { Cash and deed boxes, trunks, } \\ \begin{array}{c}\text { suit-cases, etc. of sheet iron } \\ \text { or steel }\end{array} & \ldots & \ldots & \ldots\end{array}\right\} 1930$ | $\begin{array}{r} 673 \\ 1,440 \end{array}$ | $\begin{array}{r} 82 \\ 160 \end{array}$ | $\begin{aligned} & 71 \\ & 17 \end{aligned}$ | 14 3 |

(2) Bedsteads, wire mattresses and hearth furniture.-The following table shows the quantities (where available) and values of the output in 1930 and 1924:-

| Kind of goods | 1930 |  |  |  |  |  | 1924 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Returned on schedules for |  |  |  |  |  | Total |  |
|  | The Hardware, Hollow-ware, etc., Trades |  |  | All trades |  |  |  |  |
|  | Quantity | Value | $\begin{array}{\|l\|} \hline \text { Ent- } \\ \text { ries } \end{array}$ | Quantity | Value | $\begin{aligned} & \text { Ent- } \\ & \text { ries } \end{aligned}$ | Quantity | Value |
|  | Th. tons | $£^{\prime} 000$ | No. | Th. tons | $£^{\prime} 000$ | No. | Th. tons | $£^{\prime} 000$ |
| Bedsteads, complete, and finished parts thereof (including finished tubes) | ${ }_{*}^{25 \cdot 5}$ | $\begin{aligned} & 664 \\ & 329 \end{aligned}$ | $\begin{aligned} & 24 \\ & 11 \end{aligned}$ | 27.4 | $\begin{aligned} & 701 \\ & 384 \end{aligned}$ | $\begin{aligned} & 25 \\ & 27 \end{aligned}$ | ${ }_{*}^{20 \cdot 5}$ | $\begin{aligned} & 696 \\ & 597 \end{aligned}$ |
| Wire mattresses ... \{ | ${ }_{*}^{4 \cdot 5}$ | 191 322 | $\begin{aligned} & 14 \\ & 15 \end{aligned}$ | $\stackrel{4 \cdot 9}{*}$ | 232 | $\begin{array}{r} 20 \\ 106 \end{array}$ | $10 \cdot 6$ | 345 658 |
| Hearth furniture (including coal boxes) | ... | 940 | 77 | $\ldots$ | 974 | 82 | ... | $435 \dagger$ |
| Total value ... | ... | 2,446 | $\ldots$ | $\cdots$ | 3,048 | $\ldots$ | $\cdots$ | 2,731 |

[^2]$\dagger$ Including art metal work.

Of the total value shown above $(£ 2,446,000)$ as returned on schedules for the Hardware, Hollow-ware, Metallic Furniture and Sheet Metal Trades, the value of the output of the firms included in group (7) of the table on page 92 amounted to $£ 2,384,000$, or about 97 per cent. The value of other goods made and work done by these firms amounted to $£ 283,000$.
Prices.-The average selling values of bedsteads and wire mattresses in 1930 and 1924, as calculated from the Census returns, are shown in the following table. It should be borne in mind that these comparisons do not take account of any conanges that may have occurred since the earlier year in the quality or type of goods included under the specified descriptions. Moreover, in view of the large proportion of the output for which quantities were not stated, the prices may not be truly representative.

| Kind of goods |  | Average value |  | 1930 as a <br> percentage <br> of 1924 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |

Production, exports and imports. -In view of the large output of bedsteads and wire mattresses for which particulars of value only are available, comparison between the production and the exports and retained imports of these goods cannot be made in terms of quantities. The following table shows the total recorded value of the production of these goods in 1930 and 1924 in relation to the quantities and values of exports and retained imports in the same years. In comparing the figures, the differences in the bases of valuation should be borne in mind. The production figures for 1924 include the recorded output of all firms in Northern Ireland as well as that of small firms in Great Britain.


A similar comparison cannot be made as regards hearth furniture as these goods are not separately distinguished in the trade returns.
(3) Safes, locks, latches and keys.-The following table shows the quantities (where available) and the values of the output in 1930 and 1924 :-

| Kind of goods | 1930 |  |  |  |  |  | 1924 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Returned on schedules for |  |  |  |  |  | Total |  |
|  | The Hardware, Hollow-ware, etc., Trades |  |  | All trades |  |  |  |  |
|  | Quan- tity | Value | Entries | $\begin{aligned} & \text { Quan- } \\ & \text { tity } \end{aligned}$ tity | Value | Entries | $\begin{aligned} & \text { Quan- } \\ & \text { tity } \end{aligned}$ | Value |
| Safes ... ... | Th. <br> tons $5 \cdot 6$ | $£^{\prime} 000$ <br> 423 | No. 16 | Th. <br> tons <br> $5 \cdot 7$ | £'000 426 | No. $18\{$ | Th. tons $4 \cdot 3$ $*$ | $\begin{array}{r} £^{\prime} 000 \\ 390 \\ 134 \end{array}$ |
| Strong rooms and fittings therefor ... Locks, latches and \{ keys ... | $2 \cdot \stackrel{\square}{*}$ | $\begin{aligned} & 157 \\ & 352 \\ & 772 \end{aligned}$ | $\begin{array}{r} 3 \\ 21 \\ 46 \end{array}$ | $2 \cdots$ | $\begin{aligned} & 160 \\ & 356 \\ & 775 \end{aligned}$ | $\begin{array}{r} 4 \\ 22 \\ 49 \end{array}$ | $\}_{\cdots}^{\dagger}$ | $1,217$ |
| Total value ... | ... | 1,704 | $\cdots$ | ... | 1,717 | ... | ... | 1,741 |

> * Quantity not stated. + Not separately recorde

The firms forming group (8) in the table on page 92 recorded an output of the above goods valued at $£ 1,631,000$, or nearly 96 per cent. of the value of the entire output. The value of other goods made and wori done by these firms amounted to $£ 78,000$.
Prices.-The average selling value of safes made in 1930, as calculated from the Census returns, was $£ 74 \cdot 1$ per ton as compared with $£ 90.9$ in 1924, showing a decline of 18.5 per cent. Owing to the absence of records of quantity for 1924, a similar comparison cannot be made in respect of locks, latches and keys.
Production, exports and imports.-The following statement shows, in relation to production, the values and quantities of safes exported from the United Kingdom in 1930 and 1924, together with particulars of those imported and retained. The deficiency in the 1930 figures of production arising from the absence of information regarding the output of the small firms and of the firms in Northern Ireland is probably under 2 per cent.


HARDWARE, HOLLOW-WARE, ETC.
Corresponding particulars in respect of locks, latches and keys are not available as these commodities were not separately recorded in the trade returns prior to 1930. In that year the production of locks, latches and keys was valued at $£ 1,131,000$, exports at $£ 273,000$ ( 1,400 tons), and retained imports at $£ 132,000$ ( 900 tons).
(4) Other goods characteristic of the Hardware, Hollow-ware, etc., Trades.-This group includes a large variety of sheet metal goods, the majority of which were not precisely described. The following table gives particulars of the output in 1930 and 1924. It should be borne in mind that, in the case of goods marked with an asterisk, the particulars given represent only those recorded under the specific description indicated and may therefore fall short to some extent of the aggregate production.


Prices.-In view of the lack of representative particulars of quantity for the great bulk of the goods included in the foregoing table, no comparison of average selling values is practicable.

Production, exports and retained imports.-Of the goods dealt with in the foregoing table of production, the only classes in respect of which separate particulars of external trade are available are " Metallic furniture for hospital and office use " and "Lamps and lanterns ". The following figures show the value of the recorded production of these goods in relation to that of the exports and the retained imports in both years. The differences in the bases of valuation should be borne in mind in comparing these figures.

|  | Production (value at factory) £'000 | Exports (value f.o.b.) $£^{\prime} 000$ | $\begin{gathered} \text { Retained } \\ \text { imports } \\ \text { (value e.i.f.) } \\ £^{\prime} 000 \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| $\left.\begin{array}{llll}\text { Metallic furniture for hospital and } \\ \text { office use (except aseptic hospi- } \\ \text { tal furniture) } & \ldots & \ldots & \ldots\end{array}\right\} 1930$ | $\begin{array}{ll} 0 & 815 \\ 4 & 224 \end{array}$ | $\begin{array}{r} 188 \\ 88 \end{array}$ | $\begin{array}{r} 132 \\ 97 \end{array}$ |
| $\begin{array}{cccc}\text { Lamps and lanterns (except elec- } \\ \text { tric) } & \ldots & \ldots & \ldots\end{array} \ldots\left\{\begin{array}{l}1930 \\ 1924\end{array}\right.$ | $\begin{aligned} & 273 \\ & 707 \end{aligned}$ | $\begin{array}{r} 86 \\ 159 \end{array}$ | $\begin{aligned} & 76 \\ & 68 \end{aligned}$ |

Summary of production. -The following table summarises the foregoing figures and gives information as to the amounts recorded for 1924 on schedules for the Hardware, Hollow-ware, etc., Trades and for other trades :-

| Group | 1930 |  | 1924 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Returned on schedules for |  | Returned on schedules for |  |
|  | The Hardware, Hollowware, etc., Trades | $\begin{aligned} & \text { All } \\ & \text { trades } \end{aligned}$ | The <br> Hardware Hollowware, etc., Trades | $\underset{\text { trades }}{\text { All }}$ |
|  | £'000 | $£^{\prime} 000$ | £'000 | £'000 |
| domestic purposes) | 13,396 | 14,751 | 12,090 | 14,799 |
| Bedsteads, wire mattresses and hearth furniture | 2,446 | 3,048 | 1,085 | 2,731 |
| Safes, locks, latches and keys | 1,704 | 1,717 | 1,648 | 1,741 |
| Other goods mainly of sheet metal | 8,185 | 9,832 | 5,849 | 6,137 |
| Total | 25,731 | 29,348 | 20,672 | 25,408 |

It will be observed from the above figures that in 1930 the manufacture of these goods was concentrated to a much greater extent in the hands of firms engaged in the trades concerned than was in 1924 , the amount recorded on schedules for other trades being 12 per cent. in 1930 and 19 per cent. in 1924 of the total recorded for all trades. While each of the three specific subdivisions of the Hardware, Hollow-ware, etc., Trades showed this feature, the change between 1924 and 1930 in respect of the manufacture of bedsteads, wire mattresses and hearth furniture was remarkable.

Work done for the trade (including structural and repair work).The total amount recorded as received for work done for customers in 1930 was $£ 1,362,000$, the corresponding total for 1924 being £908,000. The principal kinds of work done are shown below, the total for 1930 including a sum of $£ 40,000$ and that for 1924 a sum of $£ 2,000$ recorded on schedules for other trades. Galvanising work carried out by the Iron and Steel (Smelting and Rolling) Trade is not included.

| Kind of work done |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :---: | :---: |

* Exclusive of the goods made and used by the firms that carried out the work, the values of which are included in those shown for the goods concerned.
$\dagger$ So far as separately recorded.
Volume of production in 1930 and 1924.-The following table compares the volume of production of the principal products of the Hardware, Hollow-ware, etc., Trades in 1930 and 1924:-

* Not separately recorded.
$\ddagger$ Including hollow-ware for all purposes not separately distinguished.
§ Based on average values of domestic hollow-ware (excluding aluminium).
i| Based on average values of safes.
I Based on average values of tinned plates and black sheets, with allowance for wages.
$\phi$ Based on average value of all preceding items.
Other products.-In addition to the output dealt with in the preceding sections of this report, the following goods were produced in 1930 and 1924 by firms that made their returns on schedules for the Hardware, Hollow-ware, etc., Trades. These goods are dealt with in the reports on those trades in which the principal output was recorded.


Waste products sold.-The following sales of manufacturers' scrap and other waste products were recorded by firms in these trades in 1930 and 1924 :-

|  |  |  |  | 1930 | 1924 |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | $£^{\prime} 000$ | $£^{\prime} 000$ |  |
| Iron and steel scrap | $\ldots$ | $\ldots$ | $\ldots$ | 135 | 108 |  |
| Spelter $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | 53 | 93 |
| Brass scrap | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | 53 | 4 |
| Other waste products | $\ldots$ | $\ldots$ | $\ldots$ | 40 | 40 |  |
|  | Total | $\ldots$ | $\ldots$ | 281 | $\overline{241}$ |  |
|  |  |  |  | - |  |  |
|  |  |  |  |  |  |  |

## Employment and Wages

Employment.-The following table shows the average numbers of persons employed in 1930 and 1924 :-

| Persons employed | Males |  | Females |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Under } \\ 18 \end{gathered}$ | $\begin{gathered} \text { All } \\ \text { ages } \end{gathered}$ | $\begin{array}{\|c} \text { Under } \\ 18 \end{array}$ | $\begin{gathered} \text { All } \\ \text { ages } \end{gathered}$ | Under $18$ | $\begin{aligned} & \text { All } \\ & \text { ages } \end{aligned}$ |
| $\begin{gathered} 1930 \\ \text { Operatives (average for the year) } \end{gathered}$ | 7,418 | 41,715 | 11,496 | 32,680 | 18,914 | 74,395 |
| Administrative, technical and clerical staff (as at 18th October) | 515 | $5,630$ | 452 | 2,575 | 967 | 8,205 |
| Total | 7,933 | 47,345 | 11,948 | 35,255 | 19,881 | 82,600 |
| 1924 Operatives (average for the year) | 6,229 | 35,095 | 8,628 | 25,279 | 14,857 | 60,374 |
| Administrative, technical and clerical staff (as at 18th October) ... | 407 | $4,326$ | 362 | 1,996 | 769 | 6,322 |
| Total ... ... | 6,636 | 39,421 | 8,990 | 27,275 | 15,626 | 66,696 |

Wages.-The available information as to the amount of wages paid in 1930 and 1924 is given on pages 18 and 19.

## Power

The following table shows the capacity of prime movers, electric generators and electric motors ordinarily in use and in reserve or idle in 1930 and 1924 :-

| Power equipment | 1930 |  |  | 1924 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Ordinarily in use | In reserve or idle | Total | Ordinarily in use | In reserve or idle | Total |
| Prime movers | H.P. | H.P. | H.P. | H.P. | H.P. | H.P. |
| Reciprocating steam engines | 1,839 | 850 | 2,689 | 3,717 | 946 | 4,663 |
| Steam turbines | , | - | , | 200 | - | 200 |
| Internal combustion engines :- |  |  |  |  |  |  |
| Gas ... ... ... | 6,385 | 699 | 7,084 | 10,513 | 1,502 | 12,015 |
| Petrol, kerosene, or other light oils ... | 86 | 10 | - 96 | 52 | 22 | 74 |
| Heavy oils ... ... | 2,790 | 223 | 3,013 | 602 | 50 | 652 |
| Water engines | - | - | - | 72 | 6 | 78 |
| Total ... | 11,100 | 1,782 | 12,882 | 15,156 | 2,526 | 17,682 |
| Electric generators Driven by | Kw. | Kw. | Kw. | Kw. | Kw. | Kw. |
| Reciprocating steam engines | 588 | 404 | 992 | 628 | 367 | 995 |
| Steam turbines ... Internal combustion engines :- |  |  | - | 150 | - | 150 |
| Gas | 765 | 61 | 826 | 1,290 | 467 | 1,757 |
| Petrol, kerosene, or other light oils <br> Heavy oils | 915 | $\begin{array}{r} 12 \\ 132 \end{array}$ | $\begin{array}{r} 12 \\ 1,047 \end{array}$ | 122 | - 37 | 159 |
| Total ... | 2,268 | 609 | 2,877 | 2,190 | 871 | 3,061 |
| Electric motors Driven by | H.P. | H.P. | H.P. | H.P. | H.P. | H.P. |
| Electricity generated in same works | 2,300 | 296 | 2,596 | 1,795 | 96 | 1,891 |
| Electricity generated in other works under same ownership | 682 |  | $782$ | 133 |  |  |
| Purchased electricity | 58,155 | 5,904 | $64,059$ | 31,310 | 4,938 | $36,248$ |
| Total ... | 61,137 | 6,300 | 67,437 | 33,238 | 5,034 | 38,272 |

## Consumption of fuel

The following table shows the quantities of coal, coke and electricity recorded as used in 1930 :-


* These figures were recorded by firms representing 97.6 per cent. of the net output of the whole trade.

TABLES
I. Summary of results

| Particulars | Unit | England and Wales | Scotland | Great <br> Britain |
| :---: | :---: | :---: | :---: | :---: |
| Value of goods made and work done (Gross output) | $£^{\prime} 000$ | 27,895 | 682 |  |
| Cost of materials used ... ... ... | " | 13,423 | 322 | 13,745 |
| Paid for work given out to other firms... | ", | 142 | 3 | 145 |
| Net output $\begin{aligned} & \text { Average number of persons employed... }\end{aligned}$ | No. | 14,330 80,431 | 357 | 14,687 |
| Net output per person employed ... | - | 80,431 178 | 2,169 165 | 82,600 178 |
| Power available :- |  |  |  | 178 |
| Prime movers ... ... | H.P. | 12,615 | 267 | 12,882 |
| Electric motors driven by purchased electricity | " | 61,955 | 2,104 | 64,059 |

II. Production

| Goods sold or added to stock and work done | Unit | England and Wales | Scotland | Great <br> Britain |
| :---: | :---: | :---: | :---: | :---: |
| Hollow-ware for domestic purposes :Of wrought iron and steel :- |  |  |  |  |
| $\left.\begin{array}{l}\text { Not enamelled } \\ \text { or tinned or } \\ \text { galvanised }\end{array}\right\} \begin{aligned} & \text { Quantity stated } \\ & \text { Quantity not stated }\end{aligned}\{$ | $\begin{aligned} & \text { Th. tons } \\ & \text { £'000 } \\ & \text { £'000 } \end{aligned}$ | $\begin{array}{r} 1 \cdot 5 \\ 59 \\ 39 \end{array}$ | - | 1.5 59 39 |
| Enamelled ... ... ... | Th. tons £'000 | $16 \cdot 6$ 1,118 | - | $16 \cdot 6$ 1,118 |
| Quantity stated $\{$ | Th. tons | 1,118 | * | $23 \cdot 8$ |
| Galvanised $\left\{\begin{array}{l}\text { Quantily stated } \\ \text { Quantity not stated }\end{array}\right\}$ |  | * | * | 747 175 |
| Tinned or of tin- Quantity stated $\{$ | Th. tons | * | * | 175 $5 \cdot 3$ |
| Tinned or of tin- $\{$ Quantity stated plate... | £'000 | * | * | 296 |
| plate... $\quad$ Quantity not stated | £'000 | * | * | 447 |
| Not separately diştinguished... | Th. tons | 5.0 | - | $5 \cdot 0$ |
| Of cast iron :- |  |  | - | 157 |
| Not enamelled or tinned | Th. tons | * | * | $1 \cdot 4$ |
| Not enamelled or tinned | £'000 | * | * | 40 |
| Enamelled or $\{$ Quantity stated $\{$ | Th. tons | * | * | $1 \cdot 1$ |
| tinned $\left\{\begin{array}{l}\text { Quantity not stated }\end{array}\right.$ | $\begin{aligned} & £^{\prime} 000 \\ & £^{\prime} 00 \end{aligned}$ | * | * | 46 |
| Quantity stated $\{$ | Th. tons | $1 \cdot 6$ | - | $1 \cdot 6$ |
| Of aluminium \{ Quantity stated $\{$ | £'000 | 455 | - | 455 |
| Quantity not stated | £'000 | 476 | - | 476 |
| Total-Hollow-ware for domestic purposes | $£^{\prime} 000$ | 4,046 | 24 | 4,070 |


| Goods sold or added to stock and work done | Unit | England and Wales | Scotland | Great <br> Britain |
| :---: | :---: | :---: | :---: | :---: |
| Hollow-ware for industrial and other purposes :- <br> Of wrought iron and steel :- <br>  <br> Of aluminium : Vats, tanks, etc. | Th. tons £'000 £'000 <br> Th. tons <br> £'000 <br> £'000 <br> Th. tons <br> £'000 <br> £'000 <br> Th. tons <br> £'000 <br> £'000 <br> Th. tons <br> £'000 <br> £'000 <br> £'000 | $123 \cdot 1$ 2,784 2,839 $27 \cdot 8$ 671 545 $22 \cdot 1$ 736 655 $*$ $*$ $*$ $0 \cdot 9$ 44 33 | $3 \cdot 1$ 133 90 $1 \cdot 4$ 29 73 $0 \cdot 5$ 13 19 $*$ $*$ $*$ - - | $126 \cdot 2$ 2,917 2,929 $29 \cdot 2$ 700 618 $22 \cdot 6$ 749 674 $10 \cdot 5$ 304 180 $0 \cdot 9$ 44 33 9 |
| Total-Hollow-ware for industrial and other purposes | $£^{\prime} 000$ | 8,773 | 384 | 9,157 |
| $\left.\begin{array}{r} \text { Cash and deed boxes, } \\ \text { trunks, suit-cases, } \\ \text { etc., of sheet iron } \\ \text { and steel } \quad . . . \end{array}\right\} \begin{aligned} & \text { Quantity stated } \\ & \text { Quantity not stated } \end{aligned}$ | Th. tons <br> £'000 <br> £'000 | $\begin{array}{r} 0 \cdot 8 \\ 84 \\ 85 \end{array}$ | 二 | $\begin{array}{r} 0 \cdot 8 \\ 84 \\ 85 \end{array}$ |
| Total-Hollow-ware | £'000 | 12,988 | 408 | 13,396 |
| $\left.\left.\begin{array}{l} \text { Bedsteads, complete, } \\ \text { and fin is h ed } \\ \text { parts thereof (in- } \\ \text { cluding finished } \\ \text { tubes) } \end{array}\right\} \begin{array}{l} \text { Quantity stated } \end{array}\right\}$ | Th. tons £'000 <br> £'000 <br> Th. tons | $\begin{array}{r} 25 \cdot 5 \\ 664 \\ 329 \\ 4 \cdot 5 \end{array}$ | - | $25 \cdot 5$ 664 329 4.5 |
| $\text { Wire mattresses } \ldots\left\{\begin{array}{l} \text { Quantity stated } \\ \text { Quantity not stated } \end{array}\right.$ | $\begin{aligned} & \text { £'000 } \\ & \text { £'000 } \end{aligned}$ | $\begin{aligned} & 4 \cdot 0 \\ & 191 \\ & 322 \end{aligned}$ | - | 191 322 |
| Hearth furniture (including coal boxes) not elsewhere specified... |  |  | * | 940 |
| Safes ... ... ... ... \{ | Th. tons £'000 | $\begin{aligned} & 5 \cdot 6 \\ & 423 \end{aligned}$ | - | $5 \cdot 6$ 423 |
| Strong rooms and fittingst ... ... | £'000 | 157 | - | 157 |
| $\left.\begin{array}{cc}\text { Locks, latches and } \\ \text { keys } & \cdots\end{array} \begin{array}{l}\text { Quantity stated } \\ \text { Quantity not stated }\end{array}\right\}$ | Th. tons £'000 £'000 | $\begin{aligned} & 2 \cdot 3 \\ & 352 \\ & 772 \end{aligned}$ | - | $\begin{aligned} & 2 \cdot 3 \\ & 352 \\ & 772 \end{aligned}$ |
| Enamelled signs and tablets and hearth plates | $£^{\prime} 000$ | 437 | - | 437 |
| $\left.\begin{array}{r}\text { Metallic furniture } \\ \text { for hospital use, } \\ \text { etc. (except asep- } \\ \text { tic hospital furni- } \\ \text { ture) } \ldots \text {... ... }\end{array}\right\}$Quantity stated <br> Quantity not stated | Th. tons <br> £'000 <br> £'000 | * | * | $\begin{aligned} & 8.5 \\ & 454 \\ & 200 \end{aligned}$ |


| Goods sold or added to stock and work done | Unit | England and Wales | Scotland | Great Britain |
| :---: | :---: | :---: | :---: | :---: |
| Cookers and heaters of sheet iron, enamelled or not (including parts). | £'000 | 449 | 27 | 476 |
| Fire extinguisher apparatus ... ... | £'000 | 385 |  | 385 |
| $\left.\left.\begin{array}{r}\text { Lamps and lanterns, } \\ \begin{array}{c}\text { (except electric } \\ \text { lamps) }\end{array} \\ \ldots\end{array}\right\} \begin{array}{l}\text { Number stated }\end{array}\right\}$ | Thous. £'000 £'000 | * | * | 651 115 150 |
| Metallic closures for bottles, jars, etc. (including some of porcelain) $\dagger$ | £'000 | * | * | 150 1,273 |
| $\left.\begin{array}{l} \text { Ventilators, pipes, } \\ \text { cowls and the like, } \\ \text { of sheet iron and } \\ \text { steel } \dagger \ldots \end{array}\right\} \begin{aligned} & \text { Quantity stated } \\ & \text { Quantity not stated } \end{aligned}\{$ | Th. tons £'000 £'000 | $\begin{aligned} & 3 \cdot 2 \\ & 207 \\ & 152 \end{aligned}$ | $\begin{array}{r} 0 \cdot 4 \\ 21 \\ 40 \end{array}$ | $\begin{aligned} & 3 \cdot 6 \\ & 228 \\ & 192 \end{aligned}$ |
| $\begin{array}{r} \text { Other builders' iron- } \\ \left.\begin{array}{c} \text { mongery, mainly } \\ \text { of sheet metal } \dagger . . . \end{array}\right\} \begin{array}{l} \text { Quantity stated } \\ \text { Quantity not stated } \end{array}\{, ~ \end{array}$ | Th. tons £'000 $£^{\prime} 000$ | * | * | $\begin{aligned} & 4 \cdot 8 \\ & 206 \\ & 447 \end{aligned}$ |
| Other goods mainly of sheet metal (including stampings, pressings, piercings, etc.) :- |  |  |  |  |
|  | Th. tons | $12 \cdot 7$ | $1 \cdot 4$ | $14 \cdot 1$ |
| Of iron and steel $\{$ Quantity stated $\{$ | £'000 | 448 | 24 | 472 |
| Quantity not stated | £'000 | 1,353 | - | 1,353 |
|  | Th. tons | $0 \cdot 8$ | - | 0.8 |
| $\text { Of brass } \quad \cdots\left\{\begin{array}{l} \text { Quantity stated } \\ \text { Quantity not stated } \end{array}\right\}$ | $\begin{aligned} & £^{\prime} 000 \\ & £^{\prime} 000 \end{aligned}$ | * 107 | * | 107 399 |
|  | Th. tons | $3 \cdot 8$ | $0 \cdot 4$ | 399 $4 \cdot 2$ |
| Of other and un- Quantity stated specified metals | £'000 | 285 | 19 | 304 |
| specified metals (Quantity not stated | £'000 | 873 | 24 | 897 |
| Iron castings | £'000 | * | * | 44 |
| Other and unclassified manufactures of iron and steel (including machinery and parts) | " | * | * | 498 |
| Manufactures (other than hollow-ware) of non-ferrous metals ... | " | * | * | 468 |
| Manufactures of wood, including furniture | " | 81 | - | 81 |
| Other goods made | " | 152 | - | 152 |
| Waste products sold :- |  |  |  |  |
| Iron and steel scrap ... | Th. tons | $56 \cdot 9$ |  | $58 \cdot 3$ |
|  | $£^{\prime} 000$ | 132 | 3 0.3 | 135 |
| Spelter ... ... ... | £'000 | 49 | $0 \cdot 3$ 4 | $4 \cdot$ |
| Brass scrap | Th. tons | $3 \cdot 5\}$ | $\pm$ | $\{3 \cdot 5$ |
| Other ... | $\begin{aligned} & \text { £’000 } \\ & \text { £'000 } \end{aligned}$ | $\begin{aligned} & 53 \\ & 38 \end{aligned}$ | 2 | $\left\{\begin{array}{r}53 \\ 40\end{array}\right.$ |
| Total value of goods made | f'000 $^{\prime}$ | 26,636 | 619 | 27,255 |


| Goods sold or added to stock and work done | Unit | England and Wales | Scotland | Great Britain |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Amount received | Amount received | Amount received |
| Iron and steel structural work | £'000 | * | * | 110 |
| Jobbing ironmongery and repair work... | ," | 196 | 11 | 207 |
| Work done for the trade :- |  |  |  |  |
| Galvanising ... ... ... ... | " | 416 | 44 | 460 224 |
| Japanning, lacquering, enamelling <br> Tinning | ", | $224$ | * | 224 19 |
| Chromium and other plating $\dagger$ | ", | * | * | 236 |
| Other work done ... |  | 62 | 4 | 66 |
| Total amount received for work DONE | £'000 | 1,256 | 66 | 1,322 |
| Total value of goods made and work done (Gross output) ... | £'000 | 27,895 | 682 | 28,577 |

* Owing to the possible disclosure of information relating to individual firms, figures can only be given for Great Britain as a whole.
$\dagger$ So far as separately recorded.
$\ddagger$ Less than $£ 500$.
III. Employment
A.-NUMBERS EMPLOYED IN WEEK ENDED 18TH OCTOBER, 1930

| Persons employed |  | Males |  | Females |  | Males and females |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} \text { Under } \\ 18 \end{gathered}$ | $\begin{aligned} & \text { All } \\ & \text { ages } \end{aligned}$ | $\begin{array}{\|c} \text { Under } \\ 18 \end{array}$ | $\begin{aligned} & \text { All } \\ & \text { ages } \end{aligned}$ | $\begin{gathered} \text { Under } \\ 18 \end{gathered}$ | $\begin{aligned} & \text { All } \\ & \text { ages } \end{aligned}$ |
| England and Wales:- <br> Operatives <br> Administrative, etc.* | $\ldots$ | $\begin{array}{r} 6,952 \\ 507 \end{array}$ | $\begin{array}{\|r} 39,669 \\ 5,464 \end{array}$ | $\begin{array}{r} 11,094 \\ 433 \end{array}$ | $\begin{array}{r} 31,512 \\ 2,499 \end{array}$ | $\begin{array}{r} 18,046 \\ 940 \end{array}$ | $\begin{array}{\|r} 71,181 \\ 7,963 \end{array}$ |
| Total . | ... | 7,459 | 45,133 | 11,527 | 34,011 | 18,986 | 79,144 |
| Scotland:- <br> Operatives <br> Administrative, etc.* | $\ldots$ | $\begin{array}{r} 336 \\ 8 \end{array}$ | $\begin{array}{r} 1,314 \\ 166 \end{array}$ | $\begin{array}{r} 200 \\ 19 \end{array}$ | $\begin{array}{r} 594 \\ 76 \end{array}$ | $\begin{array}{r} 536 \\ 27 \end{array}$ | $\begin{array}{r} 1,908 \\ 242 \end{array}$ |
| Total . | $\ldots$ | 344 | 1,480 | 219 | 670 | 563 | 2,150 |
| Great Britain :- <br> Operatives ... <br> Administrative, etc.* | $\ldots$ | $\begin{array}{r} 7,288 \\ 515 \end{array}$ | $\begin{array}{r} 40,983 \\ 5,630 \end{array}$ | $\begin{array}{r} 11,294 \\ \mathbf{4 5 2} \end{array}$ | $\begin{array}{\|r} 32,106 \\ 2,575 \end{array}$ | $\begin{array}{r} 18,582 \\ 967 \end{array}$ | $\begin{array}{\|r} 73,089 \\ 8,205 \end{array}$ |
| Total | $\ldots$ | 7,803 | 46,613 | 11,746 | 34,681 | 19,549 | 81,294 |

* Administrative, technical and clerical staff.
B.-OPERATIVES EMPLOYED IN ONE WEEK IN EACH MONTH OF 1930

| Week ended | Males and females |  |  | Week ended | Males and females |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | England and Wales | Scotland | Great <br> Britain |  | England and Wales | Scotland | Great <br> Britain |
| Jan. 18 | 73,299 | 1,927 | 75,226 | July $19 .$. | 72,718 | 1,890 | 74,608 |
| Feb. 15 | 73,444 | 1,974 | 75,418 | Aug. 16... | 71,363 | 1,921 | 73,284 |
| Mar. 15 | 73,330 | 2,021 | 75,351 | Sept. 13... | 71,351 | 1,895 | 73,246 |
| Apl. 12 | 74,001 | 2,001 | 76,002 | Oct. $18 .$. | 71,181 | 1,908 | 73,089 |
| May 17 | 73,876 | 1,968 | 75,844 | Nov. 15... | 71,065 | 1,849 | 72,914 |
| June 21 | 73,519 | 1,909 | 75,428 | Dec. $13 .$. | 70,468 | 1,865 | 72,333 |
| Average for the 12 months |  |  |  | ... ... | 72,468 | 1,927 | 74,395 |

## IV. Power

Particulars of prime movers, electric generators and electric MOTORS

| Power equipment | England and Wales |  | Scotland |  | Great Britain |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Ordinarily in use | In reserve or idle | Ordinarily in use | In reserve or idle | Ordinarily in use | In reserve or idle |
| Prime movers | H.P. | H.P. | H.P. | H.P. | H.P. | H.P. |
| Reciprocating steam engines | 1,704 | 850 | 135 | - | 1,839 | 850 |
| Internal combustion engines :Gas | 6,338 | 664 | 47 | 35 | 6,385 | 699 |
| Petrol, kerosene or other light oils ... | 86 | 10 | - | 5 | 86 | 10 |
| Heavy oils ... | 2,740 | 223 | 50 | - | 2,790 | 223 |
| Total | 10,868 | 1,747 | 232 | 35 | 11,100 | 1,782 |
| Total of prime movers installed | 12,615 |  | 267 |  | 12,882 ${ }^{\text {? }}$ |  |
| Electric generators Driven by | Kw. | Kw. | Kw. | Kw. | Kw. | Kw. |
| Reciprocating steam engines ... | 588 | 404 | - | - | 588 | 404 |
| Internal combustion engines :- |  |  |  |  |  |  |
| Gas ... ... <br> Petrol, kerosene | 765 | 61 | - | - | 765 | 61 |
| or other light oils <br> Heavy oils | $\overline{915}$ | 12 132 | - | - | $\overline{915}$ | 12 |
| Heavy oils ... | 915 |  | - | - | 915 |  |
| Total | 2,268 | 609 | - | - | 2,268 | 609 |
| Total of electrio generators INStalled ... ... | 2,877 |  | - |  | 2,877 |  |
| Electric motors Driven by | H.P. | H.P. | H.P. | H.P. | H.P. | H.P. |
| Electricity generated in same works $\qquad$ | 2,300 | 296 | - | - | 2,300 | 296 |
| Electricity generated in other works under same ownership | $682$ | $100$ | - | - | $682$ | $100$ |
| Purchased electricity | $56,173$ | $5,782$ | 1,982 | 122 | $58,155$ | $5,904$ |
| Total ... | 59,155 | 6,178 | 1,982 | 122 | 61,137 | 6,300 |
| Total of electric motors installed | 65,333 |  | 2,104 |  | 67,437 |  |
| 20870 |  |  |  |  |  | E |

## V. Consumption of fuel

| Kind of fuel used | England and Wales | Scotland | Great Britain |
| :---: | :---: | :---: | :---: |
| Coal used for power* Coke used for power | $\begin{array}{r} \text { Tons } \\ 11,149 \\ 278 \end{array}$ | Tons 502 $\qquad$ | $\begin{array}{r} \text { Tons } \\ 11,651 \\ 278 \end{array}$ |
| Electricity used for all purposes :Generated in same works Generated in other works under same ownership <br> Purchased | B.T.U. $\begin{gathered} \text { (Kw.-hrs.) } \\ \text { '000 } \\ 2,493 \\ \\ 652 \\ 41,190 \end{gathered}$ | B.T.U. <br> (Kw.-hrs.) '000 $\qquad$ 954 | $\begin{gathered} \text { B.T.U. } \\ \text { (Kw.-hrs.) } \\ \text { '000 } \\ 2,493 \\ \\ 652 \\ 42,144 \end{gathered}$ |
| Total-Electricity ... .. | 44,335 | 954 | 45,289 |

[^3]
[^0]:    * Not available.

[^1]:    * Includes small quantities of
    industrial and other purposes.

[^2]:    * Quantity not stated.

[^3]:    * In addition, 134 tons of coal (all in England and Wales) were recorded as used for power and for other purposes, not separately distinguished.

