## THE HARDWARE, HOLLOW-WARE AND BEDSTEAD TRADES

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## Introductory.*

The tables on pages 139 to 144 are based on returns received from firms in Great Britain and Northern Ireland whose business in 1924 consisted wholly or mainly in the manufacture of hardware and hollow-ware, chiefly of iron or steel, metallic bedsteads, locks and safes, etc. The number of such separate returns was 2,667 . About 450 firms to which schedules were sent did not furnish returns, but these firms for the most part had very small establishments and they included a number which had ceased operations before the end of the censal year. On the basis of the information available it is estimated that they did not employ more than 1,500 persons in all and that their total net output probably did not exceed $£ 200,000$.

Summary of results.-The following table shows the main results of the Censuses of 1924 and 1907, comparisons between the figures for the two years being subject to the qualifications mentioned in the next paragraph. The information obtained in connexion with the Census of 1912, when details of output were not required from firms employing five persons or less, was not sufficiently complete to warrant its being used for purposes of comparison.

| Particulars. | Unit. | 1924. | 1907. |
| :---: | :---: | :---: | :---: |
| Value of goods made and work done (Gross output) | $£^{\prime} 000$ | 25,138 | 17,000 |
| Cost of materials used .. .. .. | L | 12,366 | 9,722 |
| Paid for work given out to other firms. . | ," | 136 | 91 |
| Net output |  | 12,636 | 7,187 |
| Average number of persons employed | No. | 73,923 | 82,699 |
| Net output per person employed | も | 171 | 87 |
| Mechanical power available :- |  |  |  |
| $\xrightarrow[\text { Prime movers . }]{\text { Electric motors driven by purchased }}$ | H.P. | 19,194 | $\begin{gathered} 29,624 \\ \text { not } \end{gathered}$ |
| electricity .. .. .. .. .. | , | 38,831 | recorded). |

Qualifications affecting comparisons.-In considering the above table and the other tables in this report which show figures for different censal years, the following qualifications should be borne in mind :-
(1) The comparability of figures relating to value or cost is affected by the changes which have taken place in the general purchasing power of money.
(2) The Census of 1907 covered Great Britain and the whole of Ireland, but that of 1924 applied only to Great Britain and

Northern Ireland. The exclusion of Southern Ireland in 1924 does not seriously affect the comparability of the figures since, according to the Census of Production taken by the Government of the Irish Free State in respect of the year 1926, the total output of castings and manufactures of iron and steel, tinplate and japanned goods, ornamental metal work (including gates, railings and fencing materials), wire mattresses on wooden frames and other mattresses, was valued at $£ 231,000$ only, or less than 1 per cent. of the gross output of the Hardware, Hollow-ware and Bedstead Trades of the United Kingdom.
(3) Comparison of the results for the two years is rendered difficult by the changes which have been made in the composition of the Hardware, Hollow-ware and Bedstead Trades for the purposes of the Census of Production. The most important of these changes are :-
(a) In 1907, 44 per cent. of the total production of galvanised sheets was returned on the schedules for the Hardware, etc., Trades, whereas in 1924 it was returned almost entirely on the schedules for the Iron and Steel (Smelting, Rolling and Founding) Trades.*
(b) In 1907, 83 per cent. of the total production of grates, ranges, stoves and hearth furniture was returned on the schedules for the Hardware, etc., Trades ; in 1924 only stoves and ranges of sheet metal were considered as products of the Hardware Trades, those of cast-iron being recorded mainly on the schedules for the Light Castings Trade. $\dagger$

Value of output and cost of materials.-The figures in the above table representing the value of goods made and work done, and the cost of materials used, are the aggregates of the figures recorded by the firms that made returns, and, for the reasons explained in paragraphs (i) and (ii) on pages xii and xiii, they over-state the value of the output of, and the cost of materials used by, the Hardware, Hollow-ware and Bedstead Trades considered as a whole. The matter is discussed on page 134, where it is estimated that the value, free from duplication, of the output of these trades in 1924 lay between $£ 23,900,000$ and $£ 24,400,000$, and the cost of the materials purchased from sources outside the trade and worked up into its products lay between $£ 11,250,000$ and $£ 11,750,000$.

Divisions of the trade.-The firms that made their returns on the schedules for the Hardware, Hollow-ware, and Bedstead Trades in respect of the year 1924 may be divided into four main groups, covering four-fifths of the total output, in which the kinds of
manufacture carried on are to a large extent independent of each other. These groups are :-
(a) Locks and safes ;
(b) Bedsteads and hearth furniture ;
(c) Metal boxes and containers ; and
(d) Hollow-ware.

The following table shows the main results of the Census of 1924 for each of these four groups :-

| Particulars. | Unit. | Firms mainly engaged in the manufacture of |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Locks and safes. |  | $\begin{gathered} \text { Metal } \\ \text { boxes } \\ \text { and } \\ \text { containers. } \end{gathered}$ | Hollowware. |
| Value of goods made and work done (Gross output) | $£^{\prime} 000$ | 1,884 | 2,040 | 6,437 | 9,927 |
| Cost of materials used .. . |  | 646 | .1,018 | 3,748 | 4,651 |
| Paid for work given out to other firms |  | 8 | 11 | 30 | 56 |
| Net output .. .. .. .. | ", | 1,230 | 1,011 | 2,659 | 5,220 |
| Average number of persons employed | No. | 7,388 | 4,596 | 16,575 | 30,682 |
| Net output per person employed .. | t | 166 | 220 | 160 | 170 |
| Mechanical power available :Prime movers | H.P. | 1,265 | 1,745 | 4,090 | 7,172 |
| Electric motors driven by purchased electricity | , | 3,168 | 2,460 | 8,273 | 17,448 |

## Production.

Detailed information as to the output of the Hardware, Hollowware and Bedstead Trades in 1924 will be found in Table II on page 139.
In addition to the output dealt with in this report, lamps, lanterns and fittings, and other goods, valued, on a cost basis, at $£ 217,000$ were produced in 1924, mainly by Railway Companies.*

## Amount of output.

The following statement compares the particulars returned for 1924 on the schedules for the Hardware, etc., Trades with those returned for 1907 on schedules for the Galvanised Sheet, Hardware, etc., Trades and on schedules for the Lock and Safe Trades, except that the output of galvanised sheets, valued at $£ 3,152,000$, has been omitted from the 1907 figures. The various kinds of goods have been grouped into broad classes in order to minimise as far as possible the lack of comparability arising from the different classifications adopted at the two Censuses and mentioned above (page 125) ; in several cases, however, the contents of a class are not the same for both years.

* Such production falls within the scope of the report on Public Utility Services, which forms part of a separate volume.

| Kind of goods. | 1924. |  | 1907. |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Returned on |  | Returned on schedules for |  |
|  | The Hardware, etc., Trades. | $\xrightarrow[\text { All }]{\text { Ald }}$ | The Hardware, Trades, | $\underset{\text { All }}{\text { Alles. }}$ |
|  | $¢^{\prime} 000$. | $£^{\prime} 000$. | $\ell^{\prime} 0000$. | £'000. |
| Locks, latches and keys | 1,231 529 | 1,317 533 | 586 319 | 597 332 |
| Bedsteads and parts .. $\quad . \quad$. | 1,094 | 1,305 | 1,413 | 1,478 |
| Hollow-ware and metal containers (including boxes, trunks, tanks, cisterns, drums, kegs, etc.) |  |  | 6.364 | 7,093 |
| Enamelled signs ... | 12,428 | 15,248 450 | 6,326 | 7,093 232 |
| Waste products | 245 | 245 | 162 | 162 |
| Jobbing ironmongery and repairs | 767 | 772 | 529 | 542 |
| Other goods made .. .. | 6,040 | 7,607 | 2,218* | 2,606* |
| Work done for the trade | 581 | 581 | 481 | 481 |
| Total value of goods made and work     <br> done .. .. .. .. | 23,494 | 28,058 | 12,298 | 13,523 |

> * Including cast-iron stoves and ranges.

In addition to the above, an output of goods of kinds mainly produced in other trades was returned in each year on the schedules for these trades; the value of such goods in 1924 was $£ 1,644,000$ and in 1907, £1,550,000.

Locks and safes.-The firms mainly engaged in the manufacture of locks and safes in 1924 had an output of these goods valued at $£ 1,719,000$ and of other goods valued at $£ 164,000$, together with $£ 1,000$ for work done for the trade, making a total of $£ 1,884,000$. Details of the output of locks and safes are shown below, including locks and safes made by other firms :-


* $£ 390,000$ represented safes weighing 4,300 tons; weight not stated for the remainder.
$\dagger$ Weight returned as 100 tons.
The firms that were mainly lock- and safe-makers manufactured $92 \cdot 9$ per cent. of the total output of locks and safes, while $91 \cdot 2$ per cent. of their output consisted of locks and safes. Manufacturers
were not required to state the quantity of their output in 1907, nor the quantity of locks, latches, and keys made by them in 1924. It is, therefore, difficult to estimate the increase or decrease in production, but as the value of locks, latches, and keys made in 1924 was 121 per cent. greater than the value of the output in 1907, while the output of safes showed only a 61 per cent. increase in value, it is probable that there was a moderate increase in the quantity of locks, latches, and keys made and perhaps some reduction in the output of safes. Particulars of the tonnage of safes made in 1924 were required, but were furnished in respect of only about threefourths of the total value of the output.
Locks, latches and keys were not separately specified in the Import and Export List either in 1907 or in 1924, and safes were not so specified in the List for 1907. In 1924, however, safes weighing 1,524 tons, valued at $£ 156,400$ f.o.b., were exported and 47 tons, valued at $£ 3,800$ c.i.f., were imported and retained.

Bedsteads and hearth furniture.-The following table shows the output of bedsteads, wire mattresses, and hearth furniture, the output of firms mainly engaged in the production of these goods, of other firms in the Hardware, etc., Trades, and of firms in other trades being shown separately.

| Kind of goods. | Output returned by |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Other hardwar firms | Firms in other trades. | All firms. |
| Metal bedsteads and finished parts thereof | $£_{1,090}^{\prime} 000$ | $£^{\prime} 000$. | ¢ $\quad$ 0 211 | ${ }^{\prime} £^{\prime} 000$. |
| Wire mattresses ... .. .. | 339 | - | 707 | 1,046 |
| Hearth furniture and art metal work (mainly of iron and steel) .. .. .. .. | 432 | 46 | 1 | 479 |
| Total . . | 1,861 | 50 | 919 | 2,830 |

Firms mainly engaged in making the above goods also made other goods valued at $£ 176,000$ and did work for the trade valued at $£ 3,000$, making their total output $£ 2,040,000$. Thus about $91 \cdot 2$ per cent. of the output of bedstead and hearth furniture makers was composed of bedsteads, wire mattresses, and hearth furniture, while they were responsible for $83 \cdot 5$ per cent. of the output of metal bedsteads and 90.2 per cent. of the output of hearth furniture.
Particulars of quantity were required for these goods, but the information obtained was not complete. It was stated, however, that the weight of metal bedsteads, valued at $£ 701,000$, was 20,600 tons, and that the weight of wire mattresses, valued at $£ 362,000$, was 11,200 tons.

About 18,400 tons of metal bedsteads and parts thereof (valued at $£ 549,000$ f.o.b.) were exported in 1907 , but exports declined, in quantity, by about one-third to 12,600 tons ( $£ 679,000$ ) in 1924. Retained imports were not separately recorded in 1907 but were 77 tons $(£ 8,500)$ in 1924.

Metal boxes and containers.-The value of the metal boxes and containers made by the group of firms mainly engaged in the manufacture of these goods is set out in the following table, together with the value of similar goods made by firms mainly engaged in the production of other goods :-

| Kind of goods. | Output returned by |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Box and container makers. | $\begin{aligned} & \text { Other } \\ & \text { hardware } \\ & \text { firms. } \end{aligned}$ | $\begin{aligned} & \text { Firms } \\ & \text { in other } \\ & \text { trades. } \end{aligned}$ | All firms. |
|  | $£^{\prime} 000$. | $£^{\prime} 000$. | $\ell^{\prime} 000$. | $£^{\prime} 000$. |
| Boxes, containers, etc., of tinplate :Plain or lacquered .. | 2,036 | 24 | 44 | 2,104 |
| Printed or decorated ${ }^{\text {P }}$. $\quad$. | 1,939 | 28 | 1,309 | 3,276 |
| Metal boxes, containers, tanks, cisterns, drums, kegs, etc., not separately distinguished | 1,855 | 178 | 925 | 2,958 |
| Total .. .. .. .. .. | 5,830 | 230 | 2,278 | 8,338 |

In addition, firms mainly engaged in the manufacture of metal boxes and containers made other goods valued at $£ 484,000$ and did work for the trade valued at $£ 123,000$. Thus their total output was valued at $£ 6,437,000$, of which about $90 \cdot 6$ per cent. consisted of boxes and containers of various kinds. These firms produced $69 \cdot 9$ per cent. of the recorded output of metal boxes and containers, but it is probable that boxes and containers made by distributing firms for their own use often escaped separate record. Quantities were stated in respect of only 19,000 tons of plain boxes, valued at $£ 1,008,000$, and 26,000 tons of printed or decorated boxes, valued at £ 1,324,000.

The most nearly corresponding output in 1907 was described as Tinplate and japanned goods (including hollow-ware, boxes, trays and other stamped goods). If to the above output of boxes and containers in 1924, there be added hollow-ware of tinplate ( $£ 1,382,000$ in the Hardware Trades and $£ 16,000$ in other trades) ; cash and deed boxes, trunks, etc. ( $£ 339,000$ in the Hardware Trades and $£ 3,000$ in other trades) ; and some part (if not the whole) of the sheet metal work, including stampings, pressings, spinnings, etc. ( $£ 2,291,000$ in the Hardware Trades and $£ 419,000$ in other trades), possible totals of $£ 10,072,000$ (for the Hardware, etc., Trades) and $£ 12,788,000$ (for all trades) are obtained to set against the 1907 totals of $£ 4,846,000$ and $£ 5,231,000$ respectively.

Exports and imports of the above classes of goods were not recorded separately, except in so far as the class of metal boxes, tanks, cisterns, etc., includes sanitary cisterns (flushing tanks) of which 3,308 tons, valued at $£ 120,300$, were exported, and 4 tons valued at $£ 450$ were imported and retained in 1924.
Hollow-ware.-The following table gives details of the hollow-ware, cash and deed boxes, and enamelled signs made by firms that were chiefly engaged in the manufacture of those goods, by other firms in the Hardware, etc., Trades, and by firms in other trades :-

| Kind of goods. |
| :---: | :---: |

In addition, hollow-ware manufacturers also made other goods valued at $£ 3,295,000$ and did work for the trade valued at $£ 191,000$. Thus their total output was $£ 9,927,000$, of which about $58 \cdot 3$ per cent. consisted of hollow-ware and 6.5 per cent. of cashboxes, etc., and signs and tablets. Their output was much more varied than that of any of the preceding groups, but they produced about $87 \cdot 1$ per cent. of the total output of hollow-ware, the remainder being fairly equally divided between other hardware firms and firms in other trades. Although particulars of the quantity of these classes of output were required, firms that produced over one-third (by value) of the output of hollow-ware and cash boxes, trunks, etc., were
unable to supply these particulars. The extent of the information given for the different kinds of hollow-ware varied considerably and is set out below :-

| Hollow-ware. | Information furnished by firms giving particulars of weight. |  | $\begin{aligned} & \text { Value of } \\ & \text { total } \\ & \text { output. } \end{aligned}$ |
| :---: | :---: | :---: | :---: |
|  | Quantity. | Value. |  |
|  | Th. tons. | $£^{\prime} 000$. | $£^{\prime} 000$. |
| Of iron and steel :- |  |  |  |
| Cast:- |  |  |  |
| Not enamelled, etc. Enamelled .. | $5 \cdot 6$ $1 \cdot 1$ | 115 38 | 172 |
| Enamelled .. | $2 \cdot 9$ | 175 | 175 |
| Wrought:- |  |  |  |
| Not enamelled, etc. . | $4 \cdot 6$ | 246 | 246 |
| Enamelled . . | $14 \cdot 0$ | 1,177 | 1,177 |
| Galvanised .. .. .. | $28 \cdot 6$ | 1,173 | 1,173 |
| Cast and wrought, not distinguished | 1.9 | 109 | 404 |
| Of tinplate .. .. .. | $13 \cdot 8$ | 959 | 1,398 |
| Of aluminium :-        <br> Domestic <br> Industrial . $\ldots$ $\ldots$ $\ldots$ $\ldots$ $\}$ $1 \cdot 1$ <br> Not distinguished $\ldots$ $\ldots$ . . 405 670  <br>       - - |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| Total | $73 \cdot 6$ | 4,441 | 6,652 |
| Cash and deed boxes, trunks, etc. | $2 \cdot 3$ | 207 | 342 |
|  | $75 \cdot 9$ | 4,648 | 6,994 |

The output of hollow-ware returned by all trades in 1907 was as follows :-

> Cast hollow-ware and builders' and other ironmongery
Tanks, cisterns, sheet metal work and wrought hollow-ware, not galvanised ..
Enamelled wrought hollow-ware .. 740,000

Hardware and hollow-ware, not distinguished

Total..
271,000 2,602,000

It is impossible to compare the magnitude of the output in 1907 with that in 1924, since hardware was not completely separated from hollow-ware in the earlier year, but even when allowance has been made for the increase in the level of values there appears to have been a considerable increase in output; in enamelled wrought hollow-ware the aggregate value of output in 1924 was six times that in 1907.

Since about one-quarter of the value of the total output of hollowware in 1924 represented goods which were not distinguished by kind, no close comparison between production and exports and imports is possible. The following table, however, gives particulars of
quantities of exports and of retained imports in 1908 and in 1924 ; previously to 1908 exports and imports were not shown in detail :-

| Hollow-ware. | Exports. |  | Net imports. |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 1924. | 1908. | 1924. | 1908. |
| Of iron or steel :-Cast :- |  |  |  |  |
|  |  |  |  |  |
| Not enamelled, etc. | $6 \cdot 0$ | 310.05 | * |  |
| Tinned .. .. | $0 \cdot 8$ | $\}^{10 \cdot 0}\{$ | * | \} $0 \cdot 2$ |
| Enamelled | $1 \cdot 1$ | 1.7 | $0 \cdot 2$ | $1 \cdot 4$ |
| Wrought :- ... |  |  |  |  |
| $\begin{array}{llll}\text { Gatvanised } \\ \text { Galled, etc. } & \text {. }\end{array}$ | $0 \cdot 9$ $4 \cdot 2$ | \} $10 \cdot 5\{$ | $0 \cdot 1$ | ) 0.4 |
| Enamelled | $2 \cdot 7$ | 1.3 | $5 \cdot 8$ | $10 \cdot 3$ |
| Of tinplate . | $3 \cdot 1$ | $3 \cdot 9$ | $0 \cdot 1$ | $0 \cdot 9$ |
| Total | $18 \cdot 8$ | $27 \cdot 4$ | $6 \cdot 2$ | $13 \cdot 2$ |
| Of aluminium .. Cash and deed boxes, etc., of sheet iron or steel | $0 \cdot 4$ | $\dagger$ | $0 \cdot 2$ |  |
|  | $1 \cdot 4$ | $\dagger$ | 0.2 | $\dagger$ |

$$
\text { * Less than } 50 \text { tons. } \dagger \text { Not shown separately }
$$

In 1907 exports of hollow-ware were 30,800 tons (of which 28,000 tons were not enamelled) and retained imports were 12,900 tons.

Other goods characteristic of the Hardware, etc., Trades.-Other classes of goods, as shown below, were made in 1924 by firms in the Hardware, Hollow-ware and Bedstead Trades; an important part of this output was returned by firms in the preceding groups whose business was more specialised :-

| Kind of goods. | Returned on schedules for |  |
| :---: | :---: | :---: |
|  | The Hardware, etc., Trades. | All trades. |
| Stoves of sheet metal | $t^{\prime} 0000$. | Ł'000. |
| Metallic furniture for offices and hospitals $\ddot{\text { (except }}$ aseptic |  |  |
| hospital furniture) Fire extinguishers and sprayers | 165 | 229 |
| Fire extinguishers and sprayers Vermin traps .. .. | 236 | 430 |
| Hardware, not elsewhere specified $\quad \therefore \quad .$. | 53 | 55 158 |
| Sheet metal work, not separately distinguished* $\quad .$. | 2,291 | 2,710 |
| Stampings and forgings of iron or steel, not elsewhere specified | 900 | 900 |
| Other goods (lamps, lanterns, etc.) Waste products | 664 | 796 |
| Waste products .. | 245 | 245 |
| Total .. .. | 4,936 | 5,795 |

* Including stampings, pressings, piercings, spinnings, etc.

In addition to the goods enumerated, builders' ironmongery and hardware, valued at $£ 532,000$, was recorded in schedules for the Hardware, etc., Trades in 1924.

Comparable data for 1907 are not available. Stoves and ranges of sheet metal were in 1907 classed with grates, ranges, stoves, and hearth furniture of all kinds, valued at $£ 2,053,000$. For grates, etc., not of sheet metal, see page 79. The exports and imports of these classes of goods cannot be shown separately either for 1907 or for 1924.

## Other products.

The firms that made their returns on schedules for the Hardware, etc., Trades, also included in their output certain classes of goods which, being of kinds mainly manufactured in other trades, are dealt with in the reports on those trades. The chief classes of such goods were as follows :-

| Cast-iron stoves, grates, and ranges | 330,000 |
| :---: | :---: |
| Cast-iron cisterns, baths, boilers, etc. | 118,000 |
| Other manufactures of iron and steel | 646,000 |
| Other manufactures of non-ferrous metals | 395,000 |
| Goods not of metal | 155,000 |
| Total .. | 1,644,000 |

## Repairs and work done for the trade.

The amounts returned as received in 1924 for repair and jobbing work and for work done for the trade were as follows :-

| Repairs and jobbing work | $\underset{767,000}{f}$ |
| :---: | :---: |
| Work done for the trade :- |  |
| Galvanising | 376,000 |
| Japanning, lacquering, enamelling, | 109,000 |
| Polishing, plating, and finishing.. | 14,000 |
| Tinning | 30,000 |
| Other work done | 52,000 |
| Total-Work done for the trade | 581,000 |
| Total-Repairs and work done | ,348,000 |

In addition, $£ 5,000$ was returned on schedules for other trades in respect of jobbing work. In 1907, $£ 542,000$ was returned on all schedules in respect of repairs and jobbing work, and $£ 481,000$ (of which $£ 356,000$ was for galvanising) on schedules for the Hardware, etc., Trades in respect of work done for the trade. Considering the increase in wages since 1907 and the changed level of values it is probable that the greater amounts recorded in 1924 did not represent, in the aggregate, any increased volume of work.

## Value of output free from duplication.

The gross value of the output ( $£ 25,138,000$ ) returned on schedules for the Hardware, Hollow-ware, and Bedstead Trades for 1924 contains some duplication, though it is difficult to estimate its amount. The value returned for bedsteads and parts ( $£ 1,094,000$ ) and lamps, lanterns, and parts ( $£ 653,000$ ) may include some duplication in respect of parts made by some firms and sold to others. Sheet metal work ( $£ 2,291,000$ ), stampings and forgings of iron and steel ( $£ 900,000$ ), and iron castings ( $£ 186,000$ ) may include semi-finished material passed on to other firms for completion or they may include articles finished in themselves (e.g., brass parts) but sold to other firms for the ornamentation of bedsteads, hearth furniture, etc., or for use in repairs; on the other hand, all the semi-manufactured material cannot be regarded as duplicated, since, apart from possible increases in makers' stocks, account has to be taken of sales to firms in other trades and of an unknown amount of exports included in the manufactures of iron or steel, unenumerated, valued at $£ 5,267,000$, exported in 1924. Finally, out of the $£ 581,000$ received for work done for the trade only that part representing work done for firms furnishing returns on schedules for the Hardware, etc., Trades, was duplicated, and as those firms reported that they paid only $£ 136,000$ for work given out by them to other firms, the latter sum represents the maximum amount of duplication in this item, the remaining $£ 445,000$ being received for work done for merchants, etc. About $£ 500,000$ was the estimated amount of duplication in 1907 and, all things considered, it would appear reasonable to estimate the duplication in 1924 as lying between $£ 750,000$ and $£ 1,250,000$, making the value of the output of the Hardware, etc., Trades, in that year between $£ 23,900,000$ and $£ 24,400,000$, free from duplication.

Cost of materials and work given out.
The cost of materials used by firms that made their returns on schedules for the Hardware, Hollow-ware, and Bedstead Trades was returned as $£ 12,366,000$ for 1924 , a sum which, by the exclusion of the products of other firms in the trade, is reduced to an amount lying between $£ 11,250,000$ and $£ 11,750,000$.
The amount paid to other firms for work given out to them was returned as $£ 136,000$ in 1924, and $£ 81,000$ in 1907.

## Net output.

The net output in 1924 of the firms that made their returns on schedules for the Hardware, Hollow-ware and Bedstead Trades (whose gross output was valued at $£ 25,138,000$ ) was $£ 12,636,000$, that sum representing, without duplication, the total amount by which the value, as delivered, of the aggregate output exceeded the cost, as purchased, of the materials used and the amount paid to other firms for work given out to them.

The net output per head of persons employed in the censal year 1924 was $£ 171$ as compared with $£ 87$ in 1907 .

## Quantities of various materials used.

Voluntary information regarding the kinds and quantities of materials used in the Hardware, Hollow-ware and Bedstead Trades in 1924, was furnished by a certain number of manufacturers. The output of these firms is summarised in the following table :-

| Kind of goods made. | ${ }_{\substack{\text { Seling } \\ \text { value. }}}$ | $\begin{gathered} \text { Proportion } \\ \text { oot ototal } \\ \text { output of } \\ \text { trade. } \end{gathered}$ |
| :---: | :---: | :---: |
|  | $\underbrace{}_{163}$ | Per cent. $30 \cdot 8$ |
| Safes <br> Cash and deed boxes, trunks, suit-cases, etc., of sheet iron or steel | 233 | 68.7 |
| Metallic furniture for hospitals and office use, etc. (except aseptic hospital furniture) | 122 | $73 \cdot 8$ |
| Hollow-ware (household, kitchen, etc., utensils) of iron or steel :- |  |  |
| steel :- | 251 | 73.7 |
|  | $\begin{array}{r}1,746 \\ 176 \\ \hline 1\end{array}$ |  |
| Cast and wrought, not separately distinguished | 176 791 | $50 \cdot 4$ 57.2 |
| Hollow-ware of aluminium | 310 | 52.9 |
| Hollow-ware, not separately distinguished | 193 1.816 | $20 \cdot 7$ 45.1 |
| $\underset{\text { Boxes, containers, etc., of tinplate }}{\text { Metal boxes and containers, tanks, cisterns, }} \ddot{\square}$ drums, kegs, etc., |  |  |
| Mot separately distinguished ... .. .. | 859 | ${ }_{62.2}^{42.2}$ |
| Lamps, lanterns and parts | ${ }_{212}^{406}$ | 62.2 49.5 |
| Enamelled signs and tablets | ${ }_{259}^{212}$ | $49 \cdot 5$ |
| Locks, latches and keys $\quad \ddot{\text { Sheet metal work, not separately distinguished ( }} \ddot{\text { including }}$ |  |  |
| stampings, pressings, piercings, spinnings, etc.) | 1,043 | 45.5 |
| Hearth furniture and art metal work | 200 | 42.0 |
| Stoves and ranges of sheet metal | 84 | 34 |
| Fire extinguishers, sprayers, etc. | 119 1,565 |  |
| Other goods made and work done |  |  |
| Total Value | 10,548 | 42 |

The quantities of the principal materials used in the production of the goods shown in the above table were as follows :-

Tons.
Galvanized sheets ... .. .. .. 2,221
Tinplates .. .. .. .. .. 55,733
Black plates and sheets .. .. .. 58,460
Aluminium .. .. .. .. ..
958

## Exports and imports.

The following table, relating to the year 1924, shows the total production of certain of the main classes of hardware, hollow-ware, etc., in relation to the exports and imports of similarly described goods. As quantities of total production are available for some items of hollow-ware only (in which cases they are shown in italics in the table), the remaining items are given by value alone. It should be remembered, however, that these values are not strictly comparable since they are based on factory value in the case of production, f.o.b. value in the case of exports and c.i.f. value in the case of imports.

| Kinds of goods. | Production. | Exports. | Net imports. |
| :---: | :---: | :---: | :---: |
| Safes .. .. .. .. .. .. | Value at factory ${ }^{\text {£ }} \mathbf{5} 530$. | $\begin{aligned} & \text { Value } \\ & \text { f.o.b. } \\ & f^{\prime} 000 \\ & 156 \end{aligned}$ | $\begin{aligned} & \text { Value } \\ & \text { c.i.f. } \\ & \epsilon^{\prime} 0000 . \end{aligned}$ |
| Bedsteads, complete and finished parts thereof (including finished tubes) <br> Wire mattresses | 1,305 1,046 | 156 679 33 | 4 |
| Hollow-ware (household, kitchen, etc., utensils) of iron or steel :Cast :- |  |  |  |
| Not enamelled <br> ( $\because$ Th. tons) | ${ }_{(5 \cdot 6)}^{115}$ | 199 | ${ }_{( }^{1}$ |
| Enamelled <br> Tinned | 72 175 | 111 69 | 13 |
| Wreht ${ }^{\text {a }}$ | (2.9) | $(0.8)$ | (*) |
| Wrought:- Not enamelled | 246 | 63 |  |
| Enamelled .. .. (Th. tons) | (4.6) | (0.9) | (0.1) |
| ( $\ddot{\text { Th. }}$. tons) | (14.0) | 335 $(2 \cdot 7)$ $(2 \cdot 1)$ | (5.8) |
|  | 1,173 | 221 | 1 |
| Cast and wrought, not distinguished | (28.6) | (4.2) |  |
| Hollow-ware of tinned plate .. .. | 1,398 | 286 | 15 |
| Domestic of alumin :- . . . | 569 | 15 |  |
| Vats, tanks, etc., for industrial purposes .. | 17 | 3 | $\dagger$ |
|  | 1,222 | - |  |
| sheet iron or steel .. .. | 342 | 160 | 3 |
| Metallic furniture for hospitals and office use, etc. (except aseptic hospital furniture) | 229 | 88 | 97 |

## Wages in 1924.

Under the Census of Production Act, 1906, the powers of the Board of Trade to require information do not extend to particulars of the amount of wages paid, and, consequently, no information on this head was secured in connexion with the Census of 1924. As a result, however, of the voluntary enquiry undertaken by the Ministry of Labour into wages and hours in the United Kingdom in 1924, information was obtained as to the total wage-bill of a group of firms in the Hardware, Hollow-ware and Bedstead Trades which made
returns both to the Ministry of Labour and to the Census of Production office. According to the Census records this group of firms employed, in the week ended 18th October, 1924, 38,279 operatives or 57 per cent. of the total of 67,364 operatives for the trades as a whole, and their net output totalled $£ 7,170,000$ or 57 per cent. of the aggregate net output of $£ 12,636,000$ for the trades as a whole. The total wagebill of these firms, as returned to the Ministry of Labour, was $£ 3,776,000$, representing about 53 per cent. of their aggregate net output.

## Employment.

The detailed information relating to employment in 1924 is summarised in Table III on pages 142 and 143. The following table sets out certain particulars for that year together with those relating to the year 1907. For the purpose of this comparison, the average numbers of operatives of each sex returned for 1924 have been divided between the two age-groups in the proportions shown by the data relating to the week ended 18th October.

| Average number. | Males. |  | Females. |  | Males and females. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Under 18. | All ages. | Under 18. | All ages. | Under 18. | All ages. |
| 1924. |  |  |  |  |  |  |
| Operatives Administrative, etc. | $\begin{array}{r} 7,406 \\ 438 \end{array}$ | $\begin{array}{r} 39,698 \\ 5,821 \end{array}$ | 8,980 385 | 26,269 2,135 | 16,386 823 | 65,967 7,956 |
| Total | 7,844 | 45,519 | 9,365 | 28,404 | 17,209 | 73,923 |
| Wage earners | 9,722 | 57,157 | 5,621 | 18,347 | 15,343 | 75,504 |
| Salaried .. | 593 | 6,299 | 167 | 896 | 760 | . 7,195 |
| Total | 10,315 | 63,456 | 5,788 | 19,243 | 16,103 | 82,699 |

The numbers of operatives recorded month by month in 1924 ranged from 1,961 above the average, in December, to 2,165 below the average, in January (see Table III B, page 143). The numbers increased from month to month throughout the year, except for a pause in July and August. The average for the last three months of the year was more than 5 per cent. in excess of that for the first three months.

## Mechanical Power.

The detailed information relating to mechanical power in 1924 is summarised in Table IV on page 144. The following table sets out the particulars for 1924 and 1907 relating to the capacity and kinds of prime movers and the capacity of electric generators installed.

| Power equipment. | 1924. |  |  | 1907. |
| :---: | :---: | :---: | :---: | :---: |
|  | Ordinarily in use. | In reserve or idle. | Total. | Total. |
| Prime movers :- <br> Reciprocating steam engines | H.P. | H.P. | H.P. | H.P. |
|  | 3,886 | 946 | 4,832 | 16,399 |
| Steam turbines .. Gas engines | 200 11,764 | 1,511 | 200 13,275 |  |
| Petrol and light oil engines | 122 | 1,53 | -155 | 12,985 |
| Heavy oil engines .. | 604 | 50 | 654 | 12,885 |
| Water power . | 72 | 6 | 78 | 240 |
| Total | 16,648 | 2,546 | 19,194 | 29,624 |
| Electric generators :Driven by- |  |  |  |  |
|  |  |  |  |  |
| Reciprocating steam engines.. | 640 | 367 | 1,007 | 2,300 |
| Gas engines <br> Petrol and light oil engines <br> Heavy oil engines | 1,415 | 457 | 1,872 |  |
|  | 5 | 5 3 | 10 159 | \} 1,456 |
| Heavy oil engines .. | 122 6 | 37 | 159 6 |  |
| Total | 2,338 | 866 | 3,204 | 3,756 |

The capacity of electric motors recorded for 1924 was as shown below :-

| Electric motors. |  | 1924. |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Ordinarily in use. | In reserve or idle. | Total. |
| Driven by- |  | H.P. | H.P. | H.P. |
| Electricity generated in own works . Purchased electricity .. | $\cdots$ | 2,048 33,910 | 194 4.921 | $\begin{array}{r} 2,242 \\ 38831 \end{array}$ |

Corresponding information was not required for 1907. The total number of Board of Trade units of electricity purchased for power and lighting purposes in that year was returned as $3,290,000$.

## II.-Production-continued.



* $\dagger \ddagger$ § See notes on p. 141
II.-Production-continued.

| Goods sold or added to stock. | Unit. | England Wales and Northern Ireland. $\dagger$ | Scotland. | United Kingdom. |
| :---: | :---: | :---: | :---: | :---: |
|  | Quant | ity and | selling | value. |
| Manufactures of cast iron |  | $2 \cdot 5$ | - | $2 \cdot 5$ |
| Cast-iron sanitary cisterns (flushing tanks) | ${ }^{\prime}$ '000 | 78 | - | 78 |
| Cast-iron baths (porcelain-enamelled or other $\{$ | Th. tons | $0 \cdot 4$ |  | $0 \cdot 4$ |
| finish) .. .. .. .. .. .. \{ | $\mathrm{E}^{\prime} 000$ | 32 |  | 32 |
| Other sanitary cast iron goods, enamelled or not | th'000 | 0. ${ }_{4}^{1}$ | $\overline{0.1}$ | $0 \cdot 2$ |
| Cooking and washing boilers of cast iron . . $\{$ | $\begin{gathered} \text { Th. tons } \\ £^{\prime} 000 \end{gathered}$ | $0 \cdot 1$ 2 | $0 \cdot 1$ 2 | 0.2 |
| Cast-iron stoves, grates and ranges for domestic cooking and heating :- | Th. tons | $2 \cdot 4$ |  | $3 \cdot 1$ |
| For coal and other solid fuel |  | 74 | 23 | 97 |
| Quantity stated | Th. tons | $2 \cdot 5$ |  | $2 \cdot 5$ |
| For gas .. .. .. | £'000 | 129 | - | 129 |
| , .. ${ }^{\text {Quantity not stated }}$ | E'000 | 104 | - | 104 |
| Builders' ironmongery and Quantity stated | Th. tons | $0 \cdot 8$ |  | $0 \cdot 8$ |
| hardware (including \{ | £'000 | 35 |  | 35 |
| hinges), n.s.d. .. .. (Quantity not stated | ${ }^{\prime}{ }^{\prime} 000$ | 489 | 8 | 497 |
| Fencing material (other than Quantity stated | Th. tons | $0 \cdot 2$ | $\ddagger$ | $0 \cdot 2$ |
| fencing wire) of cast or <br> wrought iron .. .. Quantity not stated | $\begin{aligned} & £_{\neq 000}^{\prime} \\ & ڭ^{\prime} 000 \end{aligned}$ | 12 38 | § | 12 |
| Wire manufactures ... .. ... | ${ }^{\text {¢ }}$ '000 | 49 | - | 49 |
| Manufactures of iron and steel, not elsewhere specified . . |  | 341 | 20 | 361 |
|  | Th. tons | 1.4 35 |  | 1.4 35 |
|  | $\begin{aligned} & £_{£^{\prime}, 000} \end{aligned}$ | 147 |  | 35 151 |
| Manufactures of non-ferrous metals, not elsewhere | ${ }_{\text {¢ }}{ }^{\prime} 000$ | 384 | 11 | 395 |
| specified .. .. .. |  |  |  |  |
| Furniture . . ${ }^{\text {a }}$ | " | 50 93 |  | 50 105 |
| Other goods (not of me | " | 93 |  |  |
| Total value of goods made | £'000 | 23,023 | 767 | 23,790 |
| Repair and jobbing work and work done for the trade. |  | Amoun | $t$ received. |  |
| Jobbing work and repairs | $£^{\prime} 000$ | 712 | 55 | 767 |
| Galvanizing |  | 347 | 29 | 376 |
| Japanning, lacquering, enamelling, etc. |  | 109 | - | 109 |
| Polishing, plating and finishing |  | 14 | - | 14 |
| Tinning ... .. .. |  | 30 | 6 | 30 |
| Other work. . | " | 46 | 6 | 52 |
| Total value of work done | $£^{\prime} 000$ | 1,258 | 90 | 1,348 |
| Total value of goods made and work done (Gross output) | £'000 | 24,281 | 857 | 25,138 |

* In order to avoid the possible disclosure of information relating to individual firms, figures are given only for the United Kingdom as a whole.
rms, figures are given only for the United Kingdin as information relating to individual $\dagger$ In order to avoid the possible disclosure of information relating to individual
firms, the figures for Northern Ireland have been combined with those for England and Wales.
+ Less than 50 tons.
§ Less than $£ 500$.


## III.-Employment.

A.-Numbers employed in week ended 18th October, 1924.

| Kind of staff. | Males. |  | Females: |  | Males and females. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Under 18. | All ages. | Under 18. | All ages. | Under 18. | All ages. |
| England and Wales :Operatives Administrative, etc.*. | $\begin{array}{r} 7,126 \\ 409 \end{array}$ | $\begin{array}{r} 38,596 \\ 5,538 \end{array}$ | $\begin{array}{r} 8,975 \\ 366 \end{array}$ | $\begin{gathered} 26,284 \\ 2,048 \end{gathered}$ | $\begin{array}{r} 16,101 \\ 775 \end{array}$ | $\begin{array}{r} 64,880 \\ 7,586 \end{array}$ |
| Total | 7,535 | 44,134 | 9,341 | 28,332 | 16,876 | 72,466 |
| Scotland :- <br> Operatives <br> Administrative, etc.*. | 401 24 | 1,782 255 | $\begin{array}{r} 205 \\ 18 \end{array}$ | $\begin{array}{r}566 \\ 82 \\ \hline\end{array}$ | $\begin{array}{r} 606 \\ 42 \end{array}$ | $\begin{array}{r} 2,348 \\ 337 \end{array}$ |
| Total | 425 | 2,037 | 223 | 648 | 648 | 2,685 |
| Great Britain :Operatives Administrative, etc.*. | 7,527 433 | $\begin{array}{r} 40,378 \\ 5,793 \end{array}$ | $\begin{array}{r} 9,180 \\ 384 \end{array}$ | $\begin{array}{r} 26,850 \\ 2,130 \end{array}$ | $\begin{array}{r} 16,707 \\ 817 \end{array}$ | $\begin{array}{r} 67,228 \\ 7,923 \end{array}$ |
| Total | 7,960 | 46,171 | 9,564 | 28,980 | 17,524 | 75,151 |
| Northern Ireland :Operatives Administrative, etc.*. | 30 5 | $\begin{array}{r} 129 \\ 28 \end{array}$ | $1$ | 7 | 31 6 | 136 33 |
| Total | 35 | 157 | 2 | 12 | 37 | 169 |
| $\begin{array}{r} \text { United Kingdom:- } \\ \text { Total } . \\ \hline \end{array}$ | 7,995 | 46,328 | 9,566 | 28,992 | 17,561 | 75,320 |

B.-Operatives employed in one week in each month of 1924.

England and Wales. (Annual average: Males, 37,879 ; Females, 25,692; Total,

| Week ended |  | Mates. | Females. | Total. | Week ended | Males. | Females. | Total. |  |
| :--- | :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Jan. 12th | $\ldots$ | 36,866 | 24,711 | 61,577 | July 19th | . | 38,019 | 25,642 | 63,661 |
| Feb. 16th | $\ldots$ | 36,955 | 24,860 | 61,815 | Aug. 16th | . | 37,837 | 25,601 | 63,438 |
| March 15th | $\ldots$ | 37,221 | 25,227 | 62,448 | Sept. 13th | . | 38,072 | 25,921 | 63,993 |
| April 12th | $\ldots$ | 37,384 | 25,580 | 62,964 | Oct. 18th | . | 38,596 | 26,284 | 64,880 |
| May 17th | $\ldots$ | 37,756 | 25,727 | 63,483 | Nov. 15th | . | 38,856 | 26,444 | 65,300 |
| June 21st | . | 37,980 | 25,870 | 63,850 | Dec. 13th | .. | 38,999 | 26,445 | 65,444 |

Scotland. (Annual average : Males, 1,687; Females, 570 ; Total, 2,257.)

| Jan. 12th | . | 1,547 | 536 | 2,083 | July 19th | .. | 1,707 | 585 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Feb. 16th | $\ldots$ | 1,608 | 564 | 2,292 |  |  |  |  |
| March 15th | $\ldots$ | 1,636 | 579 | 2,215 | Aug. 16th | Sept. 13th | .. | 1,696 |
| 555 | 2,251 |  |  |  |  |  |  |  |
| April 12th | . | 1,628 | 580 | 2,208 | Oct. 18th | . | 568 | 2,290 |
| May 17th | . | 1,663 | 577 | 2,482 | 566 | 2,348 |  |  |
| June 21st | . | 1,690 | 599 | 2,289 | Nov. 15th | .. | 1,782 | 566 |

Great Britain. (Annual average : Males, 39,566 ; Females, 26,262 ; Total, 65,828.)

 | Feb. 16th | $\cdots$ | 38,563 | 25,424 | 63,987 | Aug. 16th | $\cdots$ | 39,533 | 26,156 | 65,689 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| March 15th | $\cdot$ | 38,857 | 25,806 | 64,663 | Sept. 13th | $\cdots$ | 39,794 | 26,489 | 66,283 |

 \begin{tabular}{ll|l|l|l|llllll}
April 12th \&. \& 39,012 \& 26,160 \& 65,172 \& Oct. 18th \&.. \& 40,378 \& 26,450 \& 67,228 <br>
May 17th \&.. \& 39,419 \& 26,304 \& 65,723 \& Nov. 15th \&.. \& 40,638 \& 27,010 \& 67,648

 

May 17th \&.. \& 39,419 \& 26,304 \& 65,723 \& Nov. 15th \&.. \& 40,638 \& 27,010 \& 67,648 <br>
June 21st \&.. \& 39,670 \& 26,469 \& 66,139 \& Dec. 13th \&. \& 40,782 \& 27,007 \& 67,789 <br>
\hline
\end{tabular}

Northern Ireland. (Annual average : Males, 132; Females, 7; Total, 139.)

| Jan. 12th | . | 135 | 7 | 142 | July 19th | .. | 126 | 6 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Feb. 16th | . | 142 | 7 | 149 | Aug. 16th | . | 131 | 6 |
| March 15th | .. | 134 | 7 | 141 | Sept. 13th | . | 122 | 7 |
| April 12th | . | 134 | 7 | 141 | Oct. 18th | . | 129 | 7 |
| May 17th | . | 136 | 7 | 143 | Nov. 15th | .. | 131 | 7 |
| June 21st | .. | 138 | 7 | 145 | Dec. 13th | .. | 132 | 738 |

## IV.-Mechanical Power.

Particulars of prime movers, electric generators and ELECTRIC MOTORS.

| Power equipment. | England ${ }_{\text {Wales. }}$ andW |  | Scotland. |  | Great Britain. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Ordinarily in | $\begin{gathered} \text { In } \\ \text { reserve } \\ \text { or } \\ \text { idle. } \end{gathered}$ | Ordin arily in use. | $\begin{gathered} \text { In } \\ \text { reserve } \\ \text { or } \\ \text { idle. } \end{gathered}$ | Ordinarily in | $\begin{gathered} \text { In } \\ \text { reserve } \\ \text { or } \\ \text { idle. } \end{gathered}$ |
| Prime movers :- | H.P. | H.P. | H.P. | H.P. | H.P. | H.P. |
| Reciprocating steam engines | 3,779 | 946 | 107 | - | 3,886 | 946 |
| Steam turbines .. .. | 200 |  | - | - | . 200 |  |
| Gas engines | 11,363 | 1,481 | 368 | 30 | 11,731 | 1,511 |
| Petrol and light oil engines | 122 | 33 | - | - | 122 | 33 |
| Heavy oil engines | 604 | 50 | - | - | 604 | 50 |
| Water power.. | 72 | 6 | - | - | 72 | 6 |
| Total | 16,140 | 2,516 | 475 | 30 | 16,615 | 2,546 |
| Total of prime movers installed .. .. | 18,656 |  | 505 |  | 19,161 |  |
| CTRIC GENER | Kw. | Kw. | Kw. | Kw. | Kw. | Kw. |
| Driven by :- Reciprocating steam engines | 640 | 367 | - | - | 640 | 367 |
| Steam turbines | 150 | - | - | - | 150 | - |
| Gas engines | 1,415 | 457 | - | - | 1,415 | 457 |
| Petrol and light oil engines |  | 5 | - | - | 5 | 5 |
| Heavy oil engines .. . . | 122 | 37 | - | - | 122 | 37 |
| Water power | 6 | - | - | - | 6 | - |
| Total | 2,338 | 866 | - | - | 2,338 | 866 |
| Total of electric generators installed | 3,204 |  | - |  | 3,204 |  |
| Electric motors :- <br> Driven by:- <br> Electricity generated in own works <br> Purchased electricity | H.P. | H.P. | H.P. | H.P. | H.P. | H.P. |
|  |  |  |  |  |  |  |
|  | 2,048 | 194 |  | - | 2,048 | 194 |
|  | 32,417 | 4,860 | 1,469 | 61 | 33,886 | 4,921 |

The power equipment recorded for Northern Ireland was as follows :-

Gas engines: $33 \mathrm{~h} . \mathrm{p}$., all ordinarily in use.
Electric motors driven by purchased electricity : 24 h.p., all ordinarily in use.

