## THE TOOL AND IMPLEMENT TRADE

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 wholly or mainly in the manufacture of tools and implements. 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:-

| Particulars | Unit | 1930 | 1924 |
| :---: | :---: | :---: | :---: |
| Value of goods made and work done (Gross output) | £'000 | 6,061 | 8,421 |
| Cost of materials used ... ... | , | 2,461 | 3,499 |
| Paid for work given out to other firms ... | ", | 61 | 89 |
| Net output ... ... ... ... | , | 3,539 | 4,833 |
| Average number of persons employed | No. | 21,658 | 24,804 |
| Net output per person employed ... | $\ddagger$ | 163 | 195 |
| Power available: <br> Prime movers | H.P. | 15,767 | 20,113 |
| Electric motors driven by purchased electricity |  | 40,221 | 35,750 |
| Number of returns ... ... ... ... ... | No. | 240 | 314 |
| Number of establishments | " | 280 |  |

* Not available.

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 2,563 , the corresponding figure for 1924 being 1,767 . The value of the gross output of the small firms in 1924 was $£ 426,000$, and particulars of the principal items, including the output of $£ 8,000$ in Northern Ireland, are given below :-
$£^{\prime} 000$
Tools and implements :-
Files and rasps $\ldots$. ... ... ... ... ... 26
Saws and saw blades ... ... ... ...
Carpenters' and joiners' tools ... ... ... 29
Spades and shovels ... ... ... ... ... 27
Agricultural and horticultural implements ... ... 23
Engineers' tools (except gauges) ... ... ... 34
Other and unclassified tools and implements ... 143
Totai-Tools and implements ... ... ... 304
Other goods made ... ... ... ... ... 37
Repair work ... ... ... ... ... ... 46
Work done for the trade ... ... ... ... ... 47
Total ... ... ... $\overline{434}$

Of the aggregates recorded for 1924 in respect of repair work and work done for the trade, nearly 43 per cent. of the former and over 46 per cent. of the latter were recorded by the small firms.

In addition, 45 firms to which schedules were sent at the 1930 Census and 90 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.
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 (average numbers employed) | Number of returns | Gross output | $\begin{aligned} & \text { Net } \\ & \text { output } \end{aligned}$ | Average number of persons employed | Net output per person employed |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. | £'000 | £'000 | No. | £ |
| 11-24 ... | 66 | 293 | 184 | 1,146 | - 160 |
| 25-49 .. | 66 | 601 | 376 | 2,307 | 163 |
| 50-99 ... | 46 | 891 | 507 | 3,062 | 166 |
| 100-199... | 35 | 1,275 | 745 | 4,694 | 159 |
| 200-299... | 12 | 832 | 495 | 2,907 | 170 |
| 300-399 ... | 8 | 862 | 505 | 2,710 | 186 |
| 400 and over | 7 | 1,307 | 727 | 4,832 | 150 |
| Total | 240 | 6,061 | 3,539 | 21,658 | 163 |

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 :-

| Area | Number of returns | Gross output | Net output | Average number of persons employed | Net output per person employed |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $1 \ldots$$2 \ldots$$\quad \ldots\left\{\begin{array}{l}1930 \\ 1924 \\ 1930 \\ 1924\end{array}\right.$ | No. | £'000 | $£^{\prime} 000$ |  | $\begin{gathered} £ \\ 237 \end{gathered}$ |
|  | 15 | 242 | 159 |  |  |
|  | 27 | 254 | 172 | 673 845 | 204 |
|  | 13 | 199 | 130 | 695 | 187 |
|  | 25 | 385 | 218 | 1,182 | 184 |
| $3 \ldots . \quad . .\left\{\begin{array}{l}1930 \\ 1924\end{array}\right.$ | 130 | $\begin{aligned} & 3,656 \\ & 4,561 \end{aligned}$ | 2,132 | 13,230 | 161 |
|  |  |  | 2,590 | 13,455 | 192 |
| 4 and $6 \ldots\left\{\begin{array}{l}1930 \\ 1924\end{array}\right.$ | 1427 | 131468 | 90 | 544 | 165 |
|  |  |  | 284932 | $\begin{aligned} & 1,491 \\ & 5,808 \end{aligned}$ | 190 |
| $\{1930$ | 61 | 1,648 |  |  |  |
| ¢... $\cdots$. 1924 | 77 | 2,411 | 1,366 | 6,940 | 197 136 |
| 9 and 10... $\left\{\begin{array}{l}1930 \\ 1924\end{array}\right.$ | 7 10 | $\begin{aligned} & 185 \\ & 342 \end{aligned}$ | $\begin{array}{r} 96 \\ 203 \end{array}$ | $\begin{aligned} & 708 \\ & 891 \end{aligned}$ | 228 |
| Total $\left\{\begin{array}{l}1930 \\ 1924\end{array}\right.$ | $\begin{aligned} & 240 \\ & 314 \end{aligned}$ | $\begin{aligned} & 6,061 \\ & 8,421 \end{aligned}$ | $\begin{aligned} & 3,539 \\ & 4,833 \end{aligned}$ | $\begin{aligned} & 21,658 \\ & 24,804 \end{aligned}$ | $\begin{aligned} & 163 \\ & 195 \end{aligned}$ |
|  |  |  |  |  |  |

[^0]Northern Ireland.-Owing to the risk of disclosure of information relating to individual firms, separate details relating to the Tool and Implement Trade in Northern Ireland in 1930 were not published, the particulars received being included with those for the Hardware, Hollow-ware, etc., Trade (see page 91).
At the 1924 Census the gross output value recorded by all firms in the Tool and Implement Trade in Northern Ireland was $£ 8,000$ and the average number of persons employed was 32.

## Production

Total make of steel. -The total quantity of steel made in 1930 by firms that made returns on schedules for the Tool and Implement Trade, whether used by the makers in the manufacture of tools, etc. or otherwise disposed of, was recorded as 5,389 tons, consisting chiefly of crucible steel. The corresponding total recorded at the 1924 Census was 19,550 tons, of which 8,140 tons consisted of crucible steel. The total production of steel in Great Britain is dealt with in the report on the Iron and Steel (Smelting and Rolling) Trade (page 36).
Principal products.-The following table shows the value and, where available, the quantity of tools and implements made in 1930 and 1924 :-

| Kind of goods | 1930 |  |  |  |  |  | 1924 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Returned on schedules for |  |  |  |  |  | Total |  |
|  | The Tool and Implement Trade |  |  | All trades |  |  |  |  |
|  | Quantity | Value | $\begin{gathered} \text { Ent- } \\ \text { ries } \end{gathered}$ | $\begin{aligned} & \text { Quan- } \\ & \text { tity } \end{aligned}$ | Value | $\left.\begin{array}{\|c\|} \text { Ent- } \\ \text { ries } \end{array} \right\rvert\,$ | $\begin{aligned} & \text { Quan- } \\ & \text { tity } \end{aligned}$ | Value |
|  | $\begin{aligned} & \text { Th. } \\ & \text { doz. } \end{aligned}$ | £'000 | No. | Th. doz. | £'000 | No. | Th. | $£^{\prime} 000$ |
| Files and rasps | 1,316 | 518 | 52 | 1,638 | 630 | 60 | 1,734 | 588 152 |
| Saws and saw-blades | $\underset{*}{2,278}$ | 565 67 | 34 7 | $\underset{*}{2,278}$ | 565 78 | $\begin{aligned} & 34 \\ & 10 \end{aligned}$ | $\underset{*}{1,471}$ | 599 319 |
| Axes, hatchets, adzes and matchets | 170 | 141 | 20 | 178 | 152 | 21 | 228 | 310 |
| Carpenters' and joiners' tools, not elsewhere specified | * 47 | 275 87 | 35 9 | ${ }_{*}^{477}$ | 277 110 | 37 13 | $\underset{*}{650}$ |  |
| Spades and shovels for all purposes | 539 | 507 | 32 | 547 | 515 | 37 | $\left\{\begin{array}{l}492 \\ *\end{array}\right.$ | 585 140 |
| Agricultural and horticultural implements (except spades and shovels) :- |  |  |  |  |  |  |  |  |
| Forks ... ... ...\{ | ${ }_{*}^{79}$ | 144 30 | 23 2 | $\begin{gathered} 79 \\ * \end{gathered}$ | 144 30 | 23 2 |  | 1,373 |
| Other kinds ... ... | ... | 733 | 41 | $\ldots$ | 866 | 67 |  |  |
| Machine knives and shear blades | $\ldots$ | 257 | 20 | ... | 261 | 24 | ... | 150 |
| Engineers' tools, not elsewhere specified (including stocks and dies, wrenches, spanners, etc., but excluding gauges) | $\ldots$ | 1,162 | 73 | $\ldots$ | 1,918 | 150 | $\ldots$ | 1,763 |



* Quantity not stated.
$\dagger$ So far as recorded separately.
Prices.-The average selling values of certain classes of tools and implements 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 the considerable changes that may have occurred since the earlier year in the quality or type of goods included under the specified descriptions

| Kind of goods |  | Average value |  | 1930 as a percentage of 1924 |
| :---: | :---: | :---: | :---: | :---: |
|  |  | 1930 | 1924 |  |
|  |  | Shillings per doz. | Shillings per doz. | Per cent. |
| Files and rasps $\ldots$... ${ }^{\text {Saws and saw-blades }}$ | $\ldots$ | 7.73 4.96 | $6 \cdot 77$ 8.14 | $114 \cdot 2$ |
| Axes, hatchets, adzes and matchets | $\ldots$ | $4 \cdot 96$ 17.03 | 27.15 | $60 \cdot 9$ 62.7 |
| Carpenters' and joiners' tools ... |  | $11 \cdot 62$ | $10 \cdot 11$ | $114 \cdot 9$ |
| Spades and shovels for all purposes | $\ldots$ | $18 \cdot 85$ | $23 \cdot 77$ | $79 \cdot 3$ |

Volume of production in 1930 and 1924.-It is not possible to compare with any precision the total volume of production of tools anit implements in 1930 and 1924, since a large proportion of the
output was recorded in both years in terms of value only. In these cases no price factors can be applied but a re-valuation on the basis of such information as is available regarding manufacturing costs in the two years suggests that, at 1930 prices, the total value of the group of miscellaneous tools and implements, of which the recorded value in 1924 was $£ 4,383,000$, would be in the neighbourhood of $£ 4,000,000$. Using this rough estimate, the following table indicates that the aggregate volume of production of tools and implements in 1930 was some 4 per cent. greater than in 1924 :-

| Kind of goods | Total production |  |  | $1930$ <br> as a percentage of 1924 |
| :---: | :---: | :---: | :---: | :---: |
|  | 1930 | 1924 |  |  |
|  | As returned | As returned | At 1930 average values |  |
|  |  |  |  |  |
| $\begin{array}{llll}\text { Files and rasps } & \text {... } \\ \text { Saws and saw-blades } & \ldots & . . . \\ \end{array}$ | 630 643 | 740 918 | 845 | $75$ |
| Saws and saw-blades Axes, hatchets, adzes and matchets | 643 152 | 918 310 | 559 194 | 115 78 |
| Carpenters' and joiners' tools, not | 152 |  | 194 | 78 |
| elsewhere specified ... ... | 387 | 430 | 494 | 78 |
| Spades and shovels for all purposes | 515 | 725 | 575 | 90 |
| Other, including unclassified, tools and implements ... | 4,604 | 4,383 | 4,000 | 115 |
| Total ... ... ... | 6,931 | 7,506 | 6,667 | 104 |

Production, exports and imports.-The following table shows, in relation to production, the quantities of certain classes of tools and implements exported from the United Kingdom in 1930 and 1924, together with the quantities imported and retained. Where no records of quantity are available, the values of production, exports and retained imports are shown. As regards the 1930 figures of production, the deficiencies referred to on page 155 of this report should be borne in mind ; the 1924 figures include both the recorded output of firms in Northern Ireland and that of small firms. For the purpose of quantitive comparison, rough estimates are included in the production figures for both years in respect of that part of the output which was returned by value only.


| Kind of work done |  |  |  |  |  | 1930 | 1924 |
| :--- | :--- | :--- | :--- | :--- | :--- | :---: | :---: |

[^1]Other products.-In addition to the output shown in the table of principal products on pages $157-8$, the following goods were produced in 1930 and 1924 by firms that made their returns on schedules for the Tool and Implement Trade. These goods are dealt with in the reports on those trades in which the principal output was recorded.

| Kind of goods |  |  | 1930 | 1924 |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | Value | Value |
|  |  |  | £'000 | £'000 |
| Steel ingots, blooms, billets, bars, etc .... Steel forgings and castings in the rough | $\ldots$ | $\ldots$ | 302 | 690 |
| Machinery and accessories in ... $\ldots$ |  | $\ldots$ | 27 49 | 350 271 |
| Cutlery ... ... ... |  | $\ldots$ | 100 | 27 |
| Other metal manufactures |  | $\ldots$ | 175 | 366 |
| Handles for tools and implements |  | $\cdots$ | 38 | 142 |
| Other goods made ... ... |  | ... | 113 | 11 |
| Total | ... | $\ldots$ | 804 | 1,859 |

## Employment and Wages

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

| Persons employed | Males |  | Females |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Under } \\ 18 \end{gathered}$ | $\begin{aligned} & \text { All } \\ & \text { ages } \end{aligned}$ | $\begin{gathered} \text { Under } \\ 18 \end{gathered}$ | $\begin{aligned} & \text { All } \\ & \text { ages } \end{aligned}$ | $\begin{aligned} & \text { Under } \\ & 18 \end{aligned}$ | $\begin{gathered} \text { All } \\ \text { ages } \end{gathered}$ |
| $\begin{gathered} 1930 \\ \text { Operatives (average for the year) } \end{gathered}$ | 2,755 | 15,661 | 847 | 3,322 | 3,602 |  |
| Administrative, technical and |  |  | 84 |  | 3,602 |  |
|  | 160 | 1,761 | 170 | 914 | 330 | 2,675 |
| Total | 2,915 | 17,422 | 1,017 | 4,236 | 3,932 | 21,658 |
| 1924 Operatives (average for the year) | 3,301 | 18,855 | 830 |  |  |  |
| Administrative, technical and |  |  |  | 2,916 | 4,131 | 21,771 |
| October) -.... ... .. | 170 | 2,181 | 115 | 852 | 285 | 3,033 |
| Total | 3,471 | 21,036 | 945 | 3,768 | 4,416 | 24,804 |

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 :-

| $\begin{aligned} & \text { Power } \\ & \text { equipment } \end{aligned}$ | 1930 |  |  | 1924 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Ordinarily } \\ \text { in use } \end{gathered}$ | $\begin{gathered} \text { In } \\ \begin{array}{c} \text { reserve } \\ \text { or idle } \end{array} \end{gathered}$ | Total | Ordinarily in use | $\begin{gathered} \text { In } \\ \text { reserve } \\ \text { or idle } \end{gathered}$ | Total |
| Prine movers | н.Р. | н.Р. | н.Р. | н.Р. | н.P. | H.P. |
| Reciprocating steam  <br> engines $\ldots$ $\ldots$ | 6,416 | $\begin{aligned} & 199 \\ & 650 \end{aligned}$ | $\begin{array}{r} 6,615 \\ 650 \end{array}$ | $\begin{array}{r} 6,184 \\ 575 \end{array}$ | $\begin{array}{r} 1,900 \\ 160 \end{array}$ | $\begin{array}{r} 8,084 \\ 735 \end{array}$ |
| Steam turbines ... <br> Internal combustion engines :- | 6,410 | 772 | 7,182 | 9,535 | 1,208 | 10,743 |
| Gas ... ... |  |  |  |  |  |  |
| Petrol, kerosene, or other light oils .. Heavy oils .. | $\begin{array}{r} 20 \\ 792 \\ 331 \end{array}$ | 14235 | 20934366 | $\begin{array}{r} 21 \\ 191 \\ 328 \end{array}$ |  | 21191339 |
| Water engines ... |  |  |  |  | 11 |  |
| Total ... | 13,969 | 1,798 | 15,767 | 16,834 | 3,279 | 20,113 |
|  | Kw. | Kw. | Kw. | Kw. | Kw. | Kw. |
| Eleotric generators Driven by |  |  |  |  |  |  |
| Reciprocating steam engines | 1,018 | $\begin{aligned} & 150 \\ & 400 \end{aligned}$ | $\begin{array}{r} 1,168 \\ 400 \end{array}$ | $\begin{aligned} & 921 \\ & \end{aligned}$ | $\begin{array}{r} 450 \\ 80 \end{array}$ | $\begin{array}{r} 1,411 \\ 400 \end{array}$ |
| Steam turbines ... |  |  |  |  |  |  |
| Internal combustion engines :- |  |  |  |  |  |  |
|  | $\begin{array}{r} 263 \\ 96 \\ 37 \end{array}$ | ${ }^{71}$ | $\begin{array}{r} 334 \\ 96 \\ 37 \end{array}$ | $\begin{array}{r} 227 \\ 50 \\ 37 \end{array}$ | $-^{92}$ | 3195037 |
| Water engines $\ldots$ |  |  |  |  |  |  |
| Total ... | 1,414 | 621 | 2,035 | 1,595 | 622 | 2,217 |
| Electric motors Driven by Electricity generated in same works ... Purchased electricity | н.Р. | Н.Р. | Н.Р. | H.P. | H.P. | H.P. |
|  | $\begin{array}{r} 2,331 \\ 36,931 \end{array}$ | $\begin{array}{r} 138 \\ 3,290 \end{array}$ | $\begin{array}{r} 2,469 \\ 40,221 \end{array}$ | $\begin{array}{r} 2,535 \\ 30,742 \end{array}$ | $\begin{array}{r} 655 \\ 5,008 \end{array}$ | $\begin{array}{r} 3,190 \\ 35,750 \end{array}$ |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Total ... ... | 39,262 | 3,428 | 42,690 | 33,277 | 5,663 | 38,940 |

## Consumption of fuel

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

| Kind of fuel used |  | For power <br> (driving <br> engines) | For other <br> purposes <br> (so far as <br> recorded) | For power and <br> other purposes, <br> not separately <br> distinguished |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

* These figures were recorded by firms representing $95 \cdot 7$ 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) | £'000 | 5,876 | 185 | 6,061 |
| Cost of materials used ... ... ... | " | 2,373 | 88 | 2,461 |
| Paid for work given out to other firms ... | , | 60 | 1 | 61 |
| Net output... ... ... ... ... |  | 3,443 | 96 | 3,539 |
| Average number of persons employed ... | No. | 20,950 | 708 | 21,658 |
| Net output per person employed ... | £ | 164 | 136 | 163 |
| Power available :- <br> Prime movers | H.P. | 14,659 | 1,108 | 15,767 |
| Electric motors driven by purchased electricity | , | 39.929 | 292 | 40,221 |

## II. Production

A.-Total make of Steel Ingots as returned on schedules for the Tool and Implement Trade
England and Wales
No production of steel ingots was recorded for Scotland.
B.-OUTPUT SOLD OR ADDED TO STOCK AND WORK DONE

| Kind of goods made and work done | Unit | England and Wales | Scotland | Great <br> Britain |
| :---: | :---: | :---: | :---: | :---: |
| Tools and implements :- |  |  |  |  |
| Files and rasps ... ... ... \{ | Th. doz. <br> £'000 | * | * | 1,316 518 |
|  | Th. doz. | 2,278 | - | 2,278 |
| Saws and saw- $\{$ Quantity stated $\{$ | £'000 | 565 | - | 565 |
| blades $\quad . .\{$ Quantity not stated | £'000 | * | * | 67 |
| Axes, hatchets, adzes and matchets $\{$ | Th. doz. | 170 141 | - | 170 |
| Carpenters' and , | $\stackrel{\text { ¢ }}{\text { Th. } 000}$ doz. | 1414 | - | 141 |
| $\left.\begin{array}{cc}\text { Carpenters' } & \text { and } \\ \text { joiners' } & \text { tools, }\end{array}\right\}$ Quantity stated $\{$ | Th. doz. <br> $£^{\prime} 000$ | 474 275 | - | 474 275 |
| $\left.\begin{array}{l} \text { not elsewhere } \\ \text { specified } \end{array}\right\} \text { Quantity not stated }$ | £'000 | * | * | 87 |
|  | Th. doz. | 316 | 223 | 539 |
| Spades and shovels for all purposes $\{$ | £'000 | 431 | 76 | 507 |
| Agricultural and horticultural implements (except spades and shovels):- |  |  |  |  |
| Forks <br> ... $\{$ Quantity stated $\{$ | Th. doz. <br> £'000 | 79 144 | 二 | 79 144 |
| Quantity not stated |  | 30 | - | 30 |
| Other kinds ... ... ... ... | £'000 | * | * | 733 |


| Kind of goods made and work done | Unit | England and Wales | Scotland | Great <br> Britain |
| :---: | :---: | :---: | :---: | :---: |
| Machine knives and shear blades | $£^{\prime} 000$ | 257 | - | 257 |
| Engineers' tools, not elsewhere specified (including stocks and dies, wrenches, spanners, etc., but excluding gauges)... |  | * | * | 1,162 |
| Gauges ... ... ... ... \{ | Thous. $£^{\prime} 000$ | 3.2 | - | $3 \cdot 2$ |
| Permanent magnets and stamps, brands, dies, etc. (of metal) $\dagger$ | £'000 | 207 | - | 207 |
| Builders', decorators', glaziers' and similar tools, not elsewhere specified $\dagger$ | , | 130 | - | 130 |
| Mining tools $\dagger$... ... ... ... | " | 84 | - | 84 |
| Heavy edge tools (picks, mattocks, etc.) $\dagger$ | " | 59 | - | 59 |
| Sheep shears and horse clippers $\dagger$... | " | 48 | - | 48 |
| Other and unclassified tools and implements (including press tools) ... | " | 135 | - | 135 |
| Total-Tools and implements ... | $£^{\prime} 000$ | 5,016 | 138 | 5,154 |
| Steel ingots, blooms, $\{$ Quantity stated $\{$ | Tons | 6,019 | - | 6,019 |
| billets, bars, etc. $\left\{\begin{array}{l}\text { Quantity not stated }\end{array}\right.$ | $\begin{aligned} & \text { £'000 } \\ & \text { £'000 } \end{aligned}$ | 264 38 | - | 264 38 |
|  | Tons | 1,203 | - | 1,203 |
|  | $£^{\prime} 000$ | 27 | - | 27 |
| Machinery and accessories ... ... | $£^{\prime} 000$ | 49 | - | 49 |
| Cutlery ... ... ... | ,, | 100 | - | 100 |
| Other metal manufactures ... | " | 136 | 39 | 175 |
| Handles for tools and implements | ," | 38 | - | 38 |
| Other goods made . | " | 113 | - | 113 |
| Total value of goods made | £'000 | 5,781 | 177 | 5,958 |
|  |  | Amount received | Amount received | Amount received |
| Repair work ... ... ... ... | $£^{\prime} 000$ | * | * | 48 |
| Work done for the trade:On files and rasps |  | * | * | 20 |
| Other work . | ", | 35 | - | 35 |
| Total amount received for work DONE | £'000 | 95 | 8 | 103 |
| Total value of goods made and work done (Gross output) ... | $£^{\prime} 000$ | 5,876 | 185 | 6,061 |

* Owing to the possible disclosure of information relating to individual firms, separate figures cannot be given for England and Wales and for Scotland.
$\dagger$ So far as separately recorded.


## III. Employment

A.-Numbers Employed in week ended 18TH October, 1930

| Persons employed |  | Males |  | Females |  | Males and females |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{array}{\|c} \text { Under } \\ 18 \end{array}$ | $\begin{aligned} & \text { All } \\ & \text { ages } \end{aligned}$ | $\begin{gathered} \text { Under } \\ 18 \end{gathered}$ | $\begin{aligned} & \text { All } \\ & \text { ages } \end{aligned}$ | $\begin{gathered} \text { Under } \\ 18 \end{gathered}$ | $\begin{aligned} & \text { All } \\ & \text { ages } \end{aligned}$ |
| England and Wales :Operatives ... Administrative, etc.* | $\ldots$ | $\begin{array}{r} 2,655 \\ 153 \end{array}$ | $\begin{array}{r} 15,037 \\ 1,679 \end{array}$ | $\begin{aligned} & 831 \\ & 168 \end{aligned}$ | $\begin{array}{r} 3,253 \\ 882 \end{array}$ | $\begin{array}{r} 3,486 \\ 321 \end{array}$ | $\begin{array}{r} 18,290 \\ 2,561 \end{array}$ |
| Total .. | $\ldots$ | 2,808 | 16,716 | 999 | 4,135 | 3,807 | 20,851 |
| Scotland:- <br> Operatives <br> Administrative, etc.* | $\cdots$ | 73 7 | $\begin{array}{r} 469 \\ 82 \end{array}$ | 8 2 | 37 32 | 81 9 | 506 114 |
| Total .. | ... | 80 | 551 | 10 | 69 | 90 | 620 |
| Great Britain :- <br> Operatives <br> Administrative, etc.* | $\ldots$ | $\begin{array}{r} 2,728 \\ 160 \end{array}$ | $\begin{array}{\|r} 15,506 \\ 1,761 \end{array}$ | $\begin{aligned} & 839 \\ & 170 \end{aligned}$ | $\begin{array}{r} 3,290 \\ 914 \end{array}$ | $\begin{array}{r} 3,567 \\ 330 \end{array}$ | $\begin{array}{\|r} 18,796 \\ 2,675 \end{array}$ |
| Total | ... | -2,888 | 17,267 | 1,009 | 4,204 | 3,897 | 21,471 |

* 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 | 18,756 | 649 | 19,405 | July $19 \ldots$ | 18,557 | 629 | 19,186 |
| Feb. 15 | 18,504 | 647 | 19,151 | Aug. $16 .$. | 18,097 | 616 | 18,713 |
| Mar. 15 | 18,654 | 659 | 19,313 | Sept, 13... | 17,920 | 521 | 18,441 |
| Apl. 12 | 18,815 | 657 | 19,472 | Oct. $18 \ldots$ | 18,290 | 506 | 18,796 |
| May 17 | 18,560 | 641 | 19,201 | Nov. $15 .$. | 18,197 | 494 | 18,691 |
| June 21 | 18,238 | 636 | 18,874 | Dec. $13 .$. | 18,076 | 478 | 18,554 |
| Average for the 12 months |  |  |  | $\ldots$ | 18,389 | 594 | 18,983 |

## 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 | 5,561 | 199 | 855 | - | 6,416 | 199 |
| Steam turbines ... <br> Internal combustion engines :- | - | 650 | - | - | - | 650 |
| Gas ... ... | 6,282 | 647 | 128 | 125 | 6,410 | 772 |
| Petrol, kerosene or other light oils ... | 20 | - | - | - | 20 | - |
| Heavy oils ... | 792 | 142 | - | - | 792 | 142 |
| Water engines ... | 331 | 35 | - | - | 331 | 35 |
| Total | 12,986 | 1,673 | 983 | 125 | 13,969 | 1,798 |
| Total of prime MOVERS INSTALLED | 14,659 |  | 1,108 |  | 15,767 |  |
| Eleotric generators | Kw. | Kw. | Kw. | Kw. | Kw. | Kw. |
| Driven by |  |  |  |  |  |  |
| Reciprocating steam engines ... | 325 | $\overline{400}$ | 693 | 150 | 1,018 | $\begin{aligned} & 150 \\ & 400 \end{aligned}$ |
| Steam turbines ... |  |  |  | 碞 |  |  |
| Internal combustion engines :- |  |  |  |  |  |  |
| Gas | 258 6 |  | 5 | 65 | 263 | 71 |
| Heavy oils ... | 9637 |  | - | - | 96 | - |
| Water engines ... |  |  | - | - | 37 | - |
| Total | 716 | 406 | 698 | 215 | 1,414 | 621 |
| Total of electric Generators INStalled ... ... | 1,122 |  | 913 |  | 2,035 |  |
|  |  |  |  |  |  |  |  |  |
| Electric motors Driven by | H.P. | H.P. | H.P. | H.P. | H.P. | H.P. |
|  | Driven by |  |  |  |  |  |
| Electricity generated in same works | 1,736 | 68 | 595 | 70 | 2,331 | 138 |
|  |  |  |  |  |  |  |
| Purchased tricity ... | 36,649 | 3,280 | 282 | 10 | 36,931 | 3,290 |
| Total ... ... | 38,385 | 3,348 | 877 | 80 | 39,262 | 3,428 |
| Total of eleotric MOTORS INSTALLED | 41,733 |  | 957 |  | 42,690 |  |

## V. Consumption of fuel



* In addition, 560 tons of coal and 192 tons of coke (all in England and Wales) were recorded as used for power and for other purposes, not separately distinguished.


[^0]:    * For particulars see page xviii.

[^1]:    * Including $£ 2,000$ returned on schedules for other trades.

