## SECTION IX.

PAPER, PRINTING, AND ALLIED TRADES.


SECTION IX.-PAPER, PRINTING, AND ALLIED TRADES.

## GENERAL REPORT.

The following Section deals with the trades engaged in the manufacture of paper stationery, cardboard boxes, pens, pencils, artists' materials, ink, gum, and sealing wax, in printing and bookbinding, in printing and publishing of newspapers and other periodicals
typefounding, stereotyping, engraving, and die-sinking, and in trade photography
The " output" shown in the Tables is the gross output of each trade, i.e., where goods pass through the hands of several manufacturers at different stages, their quantity and value have been registered at each stage. The value of this gross output is, therefore, greater in the aggregate than the value of the goods, taken as a whole, when ready for export or consumption.

In the Tables the quantities and values of the principal products are generally shown in the classification adopted in the Export and Import Lists, but, in the case of some trades a different classification was adopted in order to suit the convenience of manufacturers and, in accordance with the limitations imposed by the Census of Production Act, 1906, values only were then required to be stated.

The figures entered against each class of product show the output of that product in the year of return, whether sold or not, after deducting any amount worked up in the same factory into goods of a kind separately classified. Thus, for example, the entry against paper shows only that portion of the paper, made in the year of return, which was either sold as paper or remained in stock at the end of the year as paper, and does not include paper made into paper bags or coated or printed in the same works. Some firms, however have made two Returns for two separate establishments (e.g., a paper mill and a stationery works) and have treated the goods transferred from one works to the other as sales and purchases. The consequent duplication, as well as that arising from goods being sold by one firm and worked up by another, is eliminated when the total cost of materials used is deducted from the value of the gross output in order to arrive at the net output (see below)

Where a firm makes goods for sale the value entered is the net selling value of the goods, including, of course, the value of any work done on the goods by other firms working on commission. Where a firm does work on commission or " for the trade" the value entered is the amount received for the work, exclusive of the value of the material worked upon. In so far as such work is done for firms also making Returns, the figures for gross output necessarily include twice over the payments for such work, and in order, therefore, to enable the Census Office to eliminate such duplication, the Schedules required a statement to be made showing the amount paid to other firms for work given out.

The result of deducting the total cost of materials and the amount paid to other firms for work given out from the value of the gross output for any industry or group of factories is to give a figure which may, for convenience, be called the " net output" of the industry or of the group. This figure expresses completely and without duplication the total amount by which the value of the products of the industry or of the group, taken as a whole, exceeded the value of the materials purchased from outside, i.e., it represents the value added to the materials in the course of manufacture, and when added to the cost of those materials it would cive the selling value of the products of the industry ready for export or for sale outside the industry. The net output constitutes for any industry the fund from which wages, salaries, rents, rates, tayes depreciation, sales expenses, and other similar charges, as well as profits, have to be defrayed.

The following statement shows, for the trades covered by the present Section of Report, the gross output, the cost of materials used, the amount paid for work
out to other firms, the net output as defined above, the number of persons employed, the net output per person employed, and the horse-power of engine. at factories. The figures relate to the United Kingdom as a whole. The horse-power shown does not include power rented from other establishment or the capacity of motors driven by purchased electricity. The output for private factories and workshops is calculated on a profit basis, while that for the printing and envelope factories of the General Post Office (Savings Bank Department) and for the Ordnance Survey Department is calculated on the cost of production. The figures for private factories and workshops in the printing and stationery trades are therefore, not strictly comparable as regards gross output and net output with those relating to the General Post Office (Saving Bank Department) and to the Ordnance Survey Department.

\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline Trade. \&  \& Materials Used. Cost. \& \[
\begin{gathered}
\text { Work } \\
\text { Given out. } \\
\text { Amount. } \\
\text { Amaid } \\
\text { to other } \\
\text { firms. } \\
\text { (3) }
\end{gathered}
\] \& \[
\left\lvert\, \begin{gathered}
\text { Net Output. } \\
\left.\begin{array}{c}
\text { Exxess of } \\
\text { Colume (1) } \\
\text { oover } \\
\text { Colums } \\
\text { (2) and (3). }
\end{array} \right\rvert\, \\
\text { (4) }
\end{gathered}\right.
\] \& \begin{tabular}{c|c} 
Persons \\
Employed \& \\
(except \& pe \\
Out- \& E \\
workers). \& (e \\
Total. \& w \\
(5) \&
\end{tabular} \&  \& \[
\begin{gathered}
\text { Horse- } \\
\text { Power } \\
\text { of Engines } \\
\text { at } \\
\text { Factories. } \\
\text { (7) } \\
\hline
\end{gathered}
\] \\
\hline Paper Trade \& \[
\stackrel{\mathfrak{f}}{13,621,000}
\] \& \[
9,079,000
\] \& \[
\underline{£}
\] \& \[
\stackrel{f}{4,542,000}
\] \& 40,955 \& \[
\begin{gathered}
£ \\
111
\end{gathered}
\] \& \[
\begin{gathered}
\text { H.P. } \\
172224
\end{gathered}
\] \\
\hline Printing and Bookbinding \& 24,709,000 \& 8,623,000 \& 742,000 \& 15,344,000 \& 174,116 \& 88 \& 38,611 \\
\hline Trades : Private Firms and Companies. \& \& \& \& \& \& 190 \& 16,365 \\
\hline Printing and Publishing of Newspapers and Other Periodicals. \& 13,548,000 \& 4,494,000 \& 187,000 \& 8,867,000 \& 46,886 \& 100 \& 16,365
680 \\
\hline Typefounding, Stereotyping, Engraving, and Die-sinking Trades. \& 970,000 \& 304,000 \& - \& 666,000 \& 6,519 \& 102 \& 680

860 <br>
\hline Manufactured Stationery Trades : Private Firmsand Companies. \& 4,414,000 \& 2,342,000 \& 95,000 \& 1,977,000 \& 26,227 \& 75 \& 3,620 <br>
\hline Cardboard Box Trade ... \& 2,129,000 \& 1,002,000 \& 13,000 \& 1,114,000 \& 21,368 \& 52 \& 2,288 <br>
\hline Pen, Pencil, and Artists' \& 734,000 \& 234,000 \& 10,000 \& 490,000 \& 6,368 \& - 77 \& 1,450 <br>
\hline Mnk, Gum, and Sealing Wax \& 888,000 \& 425,000 \& - \& 463,000 \& 1,655 ${ }^{\text {- }}$ \& - 280 \& 2,125 <br>

\hline | Trades. |
| :--- |
| Trade Photography ... ... | \& 209,000 \& 90,000 \& - \& 119,000 \& 1,011 \& 118 \& 210 <br>

\hline Total-Private Firms.. \& 61,222,000 \& 26,593,000 \& 1,047,000 \& 33,582,000 \& 325,005 \& - \& 237,573 <br>
\hline General Post Office (Savings \& 9,398 \& 4,727 \& 19 \& 4,652 \& 37 \& 126 \& <br>
\hline Ordnance Survey Department \& 76,670 \& 12,762 \& - \& 63,908 \& 433 \& 148 \& * <br>
\hline Total-Government Establishments. \& 86,068 \& 17,489 \& 19 \& 68,560 \& 470 \& - \& - <br>
\hline
\end{tabular}

In the following Table the number of persons employed in factories and workshops
istributed by sex and age and according as they were wage-earners or salaried persons; is distributed by sex and age and according as they were wage-earners or salaried persons ; a column is also added showing the number of outworkers returned as borne on the books of the employing firms :-

| Trade. | Average Number of Persons Employed in Factories and Workshops. |  |  |  |  |  |  |  | $\begin{gathered} \text { Average } \\ \text { Number of } \\ \text { Outworkers. } \end{gathered}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Wage-earners. |  |  |  | Salaried Persons. |  |  |  |  |  |
|  | Males. |  | Females. |  | Males. |  | Females. |  | Males. | $\underset{\substack{\text { Fe- } \\ \text { males }}}{\text { cose }}$ |
|  | $\begin{aligned} & \text { Under } \\ & \text { Uny years } \\ & \text { of age. } \end{aligned}$ | $\begin{aligned} & \text { Over } \\ & 18 \text { years } \\ & \text { of age. } \end{aligned}$ | $\begin{aligned} & \text { Under } \\ & 18 \text { year. } \\ & \text { of af } \end{aligned}$ | $\begin{aligned} & 0 \mathrm{ver} \\ & 18 \text { year } \\ & \text { of age. } \end{aligned}$ | Under 18 yearr of age. | $\begin{aligned} & \text { Over } \\ & \text { oy years } \\ & \text { of age. } \end{aligned}$ | Under 18 year of age. | $\begin{aligned} & \text { Over } \\ & 18 \text { years } \\ & \text { of age. } \end{aligned}$ |  |  |
| Paper Trade | 3,331 | 22,222 | 2,876 | 10,213 | 211 | 1,857 | 48 | 197 | - |  |
| Printing and Book-binding Trades: Private Firms and Companies. | 21,863 | 82,270 | 18,809 | 34,510 | 1,600 | 12,162 | 576 | 2,326 |  |  |
| Printing and Publishing of Newspapers and Other Periodicals. | 4,857 | 26,469 | 892 | 1,992 | 1,216 | 10,323 | 157 | 880 | - | - |
| Typefounding, Stereotyping, Engraving, and Die-sinking Trades. | 997 | 3,707 | 338 | 572 | 63 | 748 | 24 | 70 | - | - |
| Manufactured Stationery Trades: Private Firms and Companies | 1,719 | 6,379 | 4,734 | 10,234 | 324 | 2,122 | 162 | 553 | 4 | 180 |
| Cardboard Box Trade ... ... | 936 | 2,879 | 4,988 | 11,(41 | 118 | 900 | 145 | 361 | 3 | 1,405 |
| Pen, Pencil, and Artists' | 348 | 1,306 | 897 | 3,474 | 31 | 245 | 11 | 56 | 2 | 21 |
| Ink, Gum, and Sealing Wax | 71 | 896 | 96 | 138 | 23 | 385 | 4 | 42 | - | - |
| Photography Trade ... | 88 | 372 | 49 | 263 | 9 | 170 | 6 | 54 | - |  |
| Total-Private Firms... | 34,210 | 146,500 | 33,679 | 72,437 | 3,595 | 28,912 | 1,133 | 4,539 | 9 | 1,606 |
| Geueral Post Office (Savings | 17 | 19 | - | - | - | 1 | - | - | - | - |
| Ordnance Survey Department... | 25 | 243 | 5 | 87 | 1 | 72 | - | - | - |  |
| Total-Government Establishments. | 42 | 262 | 5 | 87 | 1 | 73 | - | - | - | - |

In the whole group $88 \cdot 2$ per cent. of the persons employed were wage-earners and $11 \cdot 8$ per cent. were salaried persons (including principals)

Of the wage-earners 63.0 per cent. were males and 37.0 per cent. were females $18 \cdot 9$ per cent. of the males and 31.7 per cent. of the females were under 18 years of age. Of the salaried persons 85.2 per cent. were males and 14.8 per cent. were females ; 1.0 per cent. of the males and 20.0 per cent. of the females were under 18 years of age. The total of 1,615 outworkers does not necessarily represent as many individual persons, many outworkers being on the books of more than one firm. On the other hand, it is probable in certain cases that the persons actually working for a firm include members of outworkers' families in addition to the outworkers actually on the firm's books. For these reasons, and as most outworkers are not in constant employment, they have not been taken into account in calculating the net output per person employed, but in comparing the figures given above an allowance should be made for them.

The aggregate gross value of the products of this group of trades as returned to the Census of Production Office on the Schedules for the group, is $£ 61,308,000$, to which should be added $£ 377,000$, the value of similar products included in their statements of output by manufacturers that made their Returns on Schedules for trades outside the group, and $£ 1,890$ the cost of stationery made in the telegraph and telephone group, and
departments of the Post Office, thus raising the total to about $261,687,000$. This figure does not represent the actual value of the goods as sold or as warehoused at the end of the year. In the first place there is considerable duplication within the paper and printing trades in respect of $(a)$ goods made by some firms and sold to others for further manufacture, the value being returned by the former as the value of their output and being included by the latter in the value of the finished goods, and (b) work done by some firms for others and returned as output by both. The amount of such duplication is estimated to lie between $£ 859,000$ and $£ 1,359,000$. Secondly, there is a similar duplication (estimated not to exceed 10 million pounds sterling) between different trades in respect of goods made and returned in one trade and sold to firms (by whom their value is also returned) in other trades in this group for further manufacture. Thirdly, there is no information as to the selling value of goods made on commission for merchants, as merchants were not required to furnish Returns to the

Census Office ; only the amount received for the work by the firms doing it was returned to the Census Office. In the following statement the approximate value of each class of goods made or work done is shown free from duplication within the class (e.g., the value of machine-ruling done by an outside firm for a firm making account-books is not included but only the value of the account-books). In the case of goods made on commission for merchants, only the amount paid for the work is taken into account.

Paper Trade Products (except Paper Bags and
Articles of Paper) Articles of Paper)
Printing, Bookbinding, \&c. (including waste products)
Printing and Publishing of $\dddot{\text { Newspapers and }} \boldsymbol{\dddot { d }}$ Magazines (including waste products)
Typefounding, Stereotyping, \&c.
Manufactured Stationery, including Paper Bags Cardboard Boxes.
Pens, Pencils, and Artists' Materials
Ink, Gum, Sealing Wax, \&c.
Trade Photography
Government Departments
Other Products chiefly made outside this Group
Total
Value
$£$
$12,500,000$ to $13,000,000$
$24,830,000$
11,750,000
1,097,000
1,471,000
2,276,000
$75(1,000$
1,047,000
199,000
88,000
88,000
320,000
$60,328,000$ to $60,828,000$

Taking the main products of the paper and printing trades group as set forth in the first ten lines above, their value at works, free from duplication, (i.e., after deducting about $£ 10,000,000$ for the value of paper, type, and ink, sold to, and of stereotyping and engraving of blocks done for, other firms who have also made Returns in their respective trades), may be estimated at a sum lying between 50 and 51 million pounds sterling The value of the net imports (i.e., imports less re-exports) of similar goods in the year of return was about $£ 6,64 \check{5}, 000$ at port of landing, while the exports were valued at about £6,599,000 free on board.

The following statement shows the net output of factories and workshops separately in the several trades, so far as the Returns were made on the Schedules for the respective trades:-

|  | Factories. Net Output. £ | Workshops Net Output £ |
| :---: | :---: | :---: |
| Paper Trade | 4,542,000 | - |
| Printing and Bookbinding Trades-Private |  |  |
| Firms and Companies | 14,789,000 | 555,000 |
| Printing and Publishing of Newspapers and Other Periodicals ... | 8,831,000 | 36,000 |
| Typefounding, Stereotyping, Engraving, and Die-sinking Trades | 509,000 | 157,000 |
| Manufactured Stationery Trades-Private |  |  |
| Firms and Companies | 1,750,000 | 227,000 |
| Cardboard Box Trade | 937,000 | 177,000 |
| Pen, Pencil, and Artists' Materials Trades ... | 483,000 | 7,000 |
| Ink, Gum, and Sealing Wax Trades | 422,000 | 41,000 |
| Trade Photography ... ... .. | 55,000 | 64,000 |
|  | 32,318,000 | 1,264,000 |
| General Post Office (Savings Bank Department) Printing and Envelope Factories ... | 4,652 | - |
| Ordnance Survey Department ... .. | 63,908 | - |
|  | 68,560 | - |

Fuel Consumed.-Firms with factories receiving the Schedules for this group of trades were asked to furnish a voluntary statement respecting the quantity of fuel consumed by them. The replies received are summarised below and shown in relation
to the aggregate net output of the firms furnishing information. It should be remembered that information respecting fuel consumption has not as a rule been furnished in respect of workshops, where the quantity used is naturally much less than in factories in proportion to output:-

| Trade. | Net Output of Firms furnishing particulars |  | Fuel Consumed by Firms furnishing particulars. |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Amount. | Percentage of Total Net Output. | Coal. | Coke. |
| Paper Trade ... ... ... ... ... ... | $\stackrel{\mathfrak{f}}{3,44,000}$ | $75 \cdot 9$ | Tons. <br> 1,501,859 | Tons. <br> 12,063 |
| Printing and Bookbinding Trades-Private Firms and Companies. |  | $67 \cdot 5$ |  |  |
| Printing and Publishing of Newspapers and Other Periodicals. | 7,075,000 | $79 \cdot 8$ | 34,899 | 4,982 |
| Typefounding, Stereotyping, Engraving and Diesinking Trades. | 365,000 | $54 \cdot 8$ | 2,687 | 238 |
| Manufactured Stationery Trades-Private Firms is and Companies. | 1,355,000 | 68.5 | 9,016 | 2,367 |
| Cardboard Box Trade ... ... ... | 778,000 | $69 \cdot 8$ | 5,377 | 1,126 |
| Pen, Pencil, and Artists' Materials Trades ... | 290,000 | $59 \cdot 2$ | 7,105 | 342 |
| Ink, Gum, and Sealing Wax Trades ... | 348,000 | $75 \cdot 2$ | 8,053 | 529 |
| Trade Photography ... ... ... | 55,000 | $46 \cdot 2$ | 245 | 114 |
| Total ... | 24,076,000 | $71 \cdot 7$ | 1,640,588 | 29,348 |
| General Post Office (Savings Bank Department) | 4,652 | 100 | - | - |
| Ordnance Survey Department ... ... ... | 63,908 | 100 | 105 | 161 |
| Total ... ... | 68,560 | 100 | 105 | 161 |

## DETAILED REPORTS

## Paper Trade.

Output.-The Tables on pages 624 to 626 are based on Returns received from factories mainly engaged in the manufacture, coating, and printing of paper (except paper hangings) or in the manufacture of pasteboard, cardboard, or millboard. The manufacture of paper bags by paper-making firms (and in a few cases by firms that were bag-makers only) is also included. The aggregate gross value of the output of those factories is returned as $£ 13,621,000$, a figure which, however, contains some duplication.

The following statement shows the particulars furnished respecting the output of paper-makers :-

| Paper for Writing and Drawing and for Envelopes | Quantity. <br> Cwts. $2,366,000$ | $\begin{gathered} \text { Value. } \\ \text { 吝 } \\ 3,059,000 \end{gathered}$ |
| :---: | :---: | :---: |
| Paper for Printing and for Posters, \&c. | 9,091,000 | 5,894,000 |
| Packing and Wrapping Paper, Biscuit Caps, \&c. | 3,764,000 | 2,032,000 |
| Printed and Coated Papers (not Hangings) | 767,000 | 975,000 |
| Other Sorts of Paper ... ... ... | 283,000 | 440,000 |
| Pasteboard, Cardboard, and Millboard | 1,071,000 | 626,000 |
| Paper Bags ... ... ... ... | 656,000 | 462,000 |
| Other Articles of Paper and Cardboard |  | 59,000 |
| Waste Products .. | - | 18,000 |
| Other Products | - | 37,000 |
| Amount Received for Waterproofing, Waxing, \&c., Paper | - | 19,000 |
| Total ... ... | ... | 13,621,000 |

The printed and coated papers, the pasteboard, cardboard, and millboard, and the paper bags were in part returned by firms that themselves made the paper or board, but in part they were returned by firms that purchased paper or board either imported or made by British manufacturers and returned by them to the Census Office as such; in this last case there is duplication with other headings in the foregoing statement. Examiner made Returns of printed and coated firms making Returns of other cags as of paper
follows :-

| Quants. | $£$ |
| :---: | :---: |
| Cwts. | 516,000 |
| 431,000 | 380,000 |
| 646,000 |  |


| Printed and Coated Papers (not Hangings) | 431,000 | 516,000 |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Pasteboard, Cardboard, and Millboard | $\ldots$ | 646,000 | 380,000 |  |
| Paper Bars... | ... | ... | ... | 257,000 |
| 150,000 |  |  |  |  |

$\qquad$
These quantities may be taken as representing the minimum output of those classes of manufactures which is additional to that of the other classes of paper shown in the first statement. The "other articles of paper and pasteboard" to the value of about $£ 38,000$ were made by paper-making firms and represent about 45,000 cwts. of paper and board. The waterproofing, waxing, and other work (for which £19,000 wa received) was done for merchants, and is an addition to the value of the paper shown as such in the Tables.

Taking the paper-making trade as a whole, the value of the output of paper cardboard and of bags and other articles of paper made in paper-mills, may be estimated, free from duplication, at a sum lying between $£ 12,600,000$ and $£ 13,600,000$, the exact sum depending upon the extent to which the paper and board for making $1,185,000$ cwts. of printed and coated papers, pasteboard, cardboard, and millboard, paper bags, and articles of paper were imported or were purchased from British paper-makers. The total quantity of paper and board made in the United Kingdom in the censal year may be estimated at about $17,000,000 \mathrm{cwts}$., and its value at somewhat over 12 million pounds sterling. The value of the total output of paper bags (returned as such), together with the value of articles of paper or cardboard, is dealt with in the Report on the manufactured stationery trade (see page 613).

Comparisons between the production in the paper trade and exports and imports, 1907, are rendered difficult by the fact that the classification of exports in 1907 differs from the classification adopted for the Census of Production, which was based on the
classification of exports for 1908, while the classification of imports differs from both. In these circumstances the exports for both 1907 and 1908 are given in order to facilitate comparison :-

| - | Production. | Exports, 1907. | Exports, 1908. |
| :---: | :---: | :---: | :---: |
| Paper for Writing and Drawing | Cwts. | Cwts. |  |
| Paper for Printing ... | 9,091,000 $\}$ | 1,302,000 | 219,000 $1,061,000$ |
| Envelopes ... ... ... ... ... ... ... | , |  | 20,000 |
| Packing and Wrapping Paper ... | 3,764,000 |  | 122,000 |
| Printed and Coated Papers (not Hangings) ... ... | 767,000 | 243,000 | 14,000 |
| Other Sorts of Paper and Paper Articles (excluding Bags). | 328,000) |  | 81,000 |
| Pasteboard, Cardboard, \&c. ... | 1,071,000 \} |  |  |
| Pasteboard, Manufactures of ... ... | , | 79,000 $\dagger$ |  |

## * Information not available.

It will be seen that in 1907 about 11.4 per cent. of the paper made in the United Kingdom for writing, drawing, printing, and for envelopes was exported

The net imports (i.e., imports less re-exports) for 1907 were :-

> Unprinted Paper on Reels ... Unprinted Paper not on Reels Printed or Coated (not Hangings) Strawboard Millboard and $\dddot{W}$ ood $\dddot{P} u l p$ Board $\quad . .$.

$$
\begin{array}{lcr} 
& \begin{array}{c}
\text { Quantity. }
\end{array} & \text { Value. } \\
& \text { Cwts. } & \text { \& } \\
. . & 1,689,000 & 1,014,000 \\
. . & 3,568,000 & 2,796,000 \\
. . & 163,000 & 431,000 \\
. . & 2,179,000 & 614,000 \\
. . & 1,080,000 & 507,000
\end{array}
$$

Imports of packing and wrapping paper were not separately distinguished in 1907, but in 1908 the net imports of unprinted paper not on reels amounted to $4,126,000 \mathrm{cwts}$., of which $2,368,000$ cwts. were paper for packing and wrapping.

The total net imports of paper and board in 1907 amounted to $8,679,000$ cwts., valued at $£ 5,362,000$. This includes, however, $2,179,000$ ewts. of strawboard valued at $£ 614,000$, and it is understood that this class of board is manufactured only in small quantities in the United Kingdom.

In order to obtain an estimate of the products of the trade under its technical classification manufacturers were asked to furnish a voluntary statement on the lines of the classification adopted by the Paper Makers' Association of Great Britain and Ireland (Incorporated) for the purpose of statistics previously published by them. The information, which relates to $10,324,000$ cwts. or about 60 per cent. of the total quantity of paper and board manufactured in the United Kingdom, is as follows :-
A. Hand-made Paper
B. Machine-made, tub-sized, and air-dried papers of all kinds, excepting those classified separately

| Quantities. | Selling Value <br> at Works. |
| :---: | :---: |
| Tons. | $\vdots$ |
| 1,800 | 240,000 |
|  |  |
| 19,700 | 794,000 |
| 1,100 | 76,000 |

C. Enginses, Cigarette, Copying $\dddot{\text { Dartridges, Fine }}$ Writings and Printings and Lithos, white or tinted, both Printings and Lithos, white or tinted, both
machine-finished, water finish, super calendered, and plate glazed, including fine papers made for coating and enamelling, and Imitation parchments
. Blottings and Plate Papers
F. News, White Middles, Wall-papers
G. Browns, Wrappers, Grocery, and Packing
H. Pulp Boards, white or tinted, Folding Box Boards, Mill Boards, Leather Boards, Glazed Boards, \&c., Straw Boards ..
I. M.G. Envelopes, Printing, Litho, and Cover

| Quantity. | Selling Value <br> at Works. |
| :---: | :---: |
| Tons. | $£$ |
| 8,100 | 125,000 |

Net Output.-The net output of the factories covered by the Tables on pages 624 to 626 (whose gross output was valued at $£ 13,621,000$ ) was $£ 4,542,000$, that sum representing the total amount by which the value of the output of those factories an workshops exceeded the cost of the materials used. The actual cost of materials used by those factories and workshops, taken as a whole, cannot be precisely stated, but it may be estimated at a sum lying between 8 and 9 million pounds sterling.

The net output per head of persons employed in the censal year was nearly $£ 111$
Persons Employed.-The average number of persons employed on the last W ednesdays in January, April, July, and October in the factories covered by the Tables on pages 624 o 626 is returned as 40,955 , viz., 38,642 wage-earners and 2,313 salaried persons, the total number being distributed by age and sex as follows :-

Males :-
Under $18 \ldots$
Over $18 \ldots$
3,542
24,079
Females:-
Under 18
2,924

$$
\begin{array}{lllr|l}
\text { Under } 18 & \ldots & \ldots & 3,542 & \text { Under } 18 \\
\text { Over } 18 & \ldots & \ldots & 24,079 & \text { Over } 18
\end{array}
$$

The variation in employment during the censal year is shown in the following statement :-

|  |  |  |  |  | Emploged | last Wedn |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | January. | April. | July. | October. |
| Wage-earners .. Salaried Persons |  |  | $\ldots$ | $\begin{array}{r} 38,647 \\ 2,313 \end{array}$ | $\begin{array}{r} 38,710 \\ 2,316 \end{array}$ | $\begin{array}{r} 38,345 \\ 2,304 \end{array}$ | $\begin{array}{r} 38,865 \\ 2,318 \end{array}$ |
| Total ... | ... | ... | ... | 40,960 | 41,026 | 40,649 | 41,183 |

Power.-The particulars furnished with regard to power are summarised below, electricity purchased not being included:-


[^0]As shown above, whereas the total number of persons employed in factories in the paper-making trade was 40,955 , firms employing 10.5 persons rented their power Precise details as to the amount and kind of such power are not available, since landlord frequently included in their special Returns power supplied to several firms engaged in different industries (see pages 15 to 18)

Firms using dynamos driven by their own engines were required to state their capacity, and the information furnished is summarised below :-

| Capacity of Dynamos driven by :- |  |  |  | Kilowatts. |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Steam Engines : | Reciprocating | $\ldots$ | $\ldots$ | $\ldots$ | 11,172 |  |
|  | Steam Turbines | $\ldots$ | $\ldots$ | $\ldots$ | 2,609 |  |
| Other Power $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | 1,501 |
| Total | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | 15,282 |

The capacity of those dynamos should not, of course, be added to that of the engines owned. What the information shows is that (taking 746 kilowatts as equivalent to 1,000 horse-power, and allowing about 10 per cent. for loss of energy in conversion) about 13 per cent. of the engine-power belonging to paper-making factories was required for driving dynamos for the production of electric power and light

Manufacturers were also required to state the quantity of electricity generated by their own dynamos, but owing to the insufficiency of their records a number of them were unable to do so. The following statement summarises the information furnished :-


About 1,472,000 Board of Trade units of electricity were purchased by manufacturers for power and lighting purposes. This figure includes estimates made in the Census Office in respect of the quantities of electricity purchased by a number of small firms who were able to state only the amounts paid by them, but the total quantity so estimated forms a very small proportion of the whole.

Plant.-In order to obtain a measure of the equipment of the trade paper-makers were asked to furnish a voluntary statement respecting the numbers of their machines and vats and their maximum annual capacity. Firms with an output of $12,593,000 \mathrm{cwts}$ of paper and board, or nearly three quarters of the estimated total output, stated that they owned 407 paper-making machines and 96 vats in the censal year. Further, firms with an actual output of $12,150,000 \mathrm{cwts}$. of paper and board stated that their maximum annual capacity was $13,297,000 \mathrm{cwts}$

## Printing and Bookbinding Trades

(a) Private Firms and Companies.

Output.-The Tables on pages 627 to 629 are based on Returns received from factories and workshops engaged in printing, bookbinding, and allied trades. The Returns furnished by newspaper proprietors who do their own printing are not included Returns furnished by newspaper proprietors who do their own printing are not included in those Tables but are dealt with separately (see pages 608 to 610 ). The aggregate gross value of the output of the firms that made their Returns on the Schedules for the printing and bookbinding trades is returned as $£ 24,709,000$, to which should be added : $2,071,000$, the value of similar goods manufactured and work done, included in their The resulting total of $£ 26,780,000$ contains, however, a certain amount of duplication.

The value of printing, map-making, \&c., done by Government Departments, amounting to about $£ 84,000$ (see page 607) is not included in this total.

The following statement shows the particulars furnished respecting the chief classes of output :-

|  | Returned on schedules for the Printing and Bookbinding Trades. | Returned on Schedules for other Trades. | Total. |
| :---: | :---: | :---: | :---: |
| Book Production (Printing, Binding, \&c.) :Printed Books Account and Blank Books... | $\begin{gathered} \stackrel{f}{1,360,00} \\ 1,487,000 \end{gathered}$ | $\begin{gathered} \text { f18,000 } \\ 4,000 \end{gathered}$ | $\begin{aligned} & \stackrel{£}{1,678.000} \\ & 1,491,000 \end{aligned}$ |
| Printing of Newspapers:Daily Other than Daily (including Trade Journals) ... | $\begin{array}{r} 180,000 \\ 1,005,000 \end{array}$ | $\overline{1,000}$ | $\begin{array}{r} 180,000 \\ 1,006,000 \end{array}$ |
| Total-Printing of Newspapers ... ... | 1,185,000 | 1,000 | 1,186,000 |
| Printing of Magazines and other Periodicals (published at least quarterly). | 1,216,000 |  | $1,259,000$ <br> 13,198,000 |
| Job and General Printing $\ldots$ $\ldots$ $\ldots$ $\ldots$  <br> Music Printing $\ldots$ $\ldots$ $\ldots$ $\ldots$  | 11,563,000 | 1,63, 1,000 | 13,121,000 |
| Lithographic and Photo-lithographic Printing (other than Music). | 2,939,000 | 25,000 | 2,964,000 |
| Photographic and Process Engraving and Printing ... Copper and Steel Plate Printing (other than Music) ... | $\begin{aligned} & 565,000 \\ & 343,000 \end{aligned}$ | $\begin{array}{r} 7,000 \\ 4,000 \end{array}$ | $\begin{gathered} 572,000 \\ 347,000 \end{gathered}$ |
| Bookbinding :- <br> Printed Books <br> Account and Blank Books.. | $\begin{array}{r} 1,359,000 \\ 744,000 \end{array}$ |  | $\begin{array}{r} 1,359,000 \\ 744,000 \end{array}$ |
| Bookbinding, not separately distinguished | 123,000 | 14,000 |  |
| Total-Bookbinding | 2,226,000 | 14,000 | 2,240,000 |
| Maps, Plans, Drawings, \&c. ... | 42,000 | 8,000 | 50,000 |
| Machine-Ruling ... ${ }_{\text {Gold }}$ Blocking, Stamping, \&c. ... | 314,000 61,000 | 10,000 | 71,000 |
| Gold Blocking, Stamping, \&c. ... ... ... ${ }_{\text {Waste Products }}$ | 80,000 |  | 80,000 |
| Total ... | 23,501,000 | 2,071,000 | 25,572,000 |

The firms that made their Returns on the Schedules for the printing and bookbinding trades also included in their statements of output the following classes of work and goods which form the main output of other trades and are dealt with in the Reports on those trades :-


Under the heading "book production" is shown the output of those firms for whom it was convenient to return their output of printed books and account and blank books in its finished form, whether they performed all the operations of printing, binding ruling, \&c., themselves or gave out one or more of those operations to other firms who
made their Returns of the amounts received by them against the headings appropriate to their trades as printers, bookbinders, \&c. A certain amount of duplication has arisen from this source. Firms that simply printed books in sheets were instructed to enter their Returns of output against the heading "job and general printing," which contains the great bulk of ordinary commercial printing. A small amount of lithographic printing is also unavoidably included under this heading, and in the case of many small firms the whole of their printing work has been so returned although parts of it should have been more properly assigned to newspaper printing, \&c. There is, moreover, some duplication within this heading owing to firms of printers occasionally sub-letting some of their printing to other firms, in which case the value is returned by both firms. The amounts entered as received for the printing of newspapers, magazines, and other periodicals do not represent the total income of such newspapers, \&c., but only the amounts received "photographic and process engraving and preprietors byount entered against the heading "photographic and process engraving and printing" includes both the sum received for making the blocks and also the charge made for printing from the blocks. The for the trade" "re mainly dupliceted in "one of stationery, cardboard boxes, for whom the work was done

It is not possible to eliminate the duplicated items completely from the headings in the foregoing statement in which they occur, but, as practically the whole of the work given out was executed by firms making Returns on the same Schedule, it appears that, taking as a whole the factories and workshops covered by the Tables on pages 627 and 629 the value of their output can be ascertained with some degree of precision by deducting from the total gross value as shown above ( $£ 24,709,000$ ) the amount stated to have been paid by the several firms for work which they gave out to other firms ( $£ 742,000$ ). The resultant total is $£ 23,967,000$. The value, taken as a whole, of the various classes of printing and binding (except, the printing of newspapers and magazines which have their own printing works), as returned on all Schedules, may be estimated at about $£ 24,830,000$, including the value of waste products. Other work done and goods made, to the value of $£ 1,208,000$, are dealt with in the Reports on the rades to which they belong.

The bulk of the output shown above is that of firms who supplied the paper which they printed, and, consequently, returned the selling value of the printed books or other documents produced by them, including at-the same time the cost of the paper in their cost of materials used. Other firms, however, were supplied with paper by their customers, and such firms returned as the value of their output the amount received by them for printing, \&c., exclusive of the value of the paper, which was also excluded from the statements of the cost of materials used. A few firms that kept their books by a departmental method and were not able to allocate the cost of paper (and in some cases not of any materials) to the various classes of product made by them, were allowed to make their Returns on the basis of the estimated value of the work done by them exclusive of the value of such paper or other materials. The amounts included in Tables I and II on pages 627 and 628 are, consequently, less than the aggregate output and the aggregate cost of materials by the cost of the paper not taken into account, but no estimate is possible as to the actual amount involved

In order to obtain a measure of certain branches of the printing trade, the firms with factories receiving the Schedule for the printing and bookbinding trade were asked to furnish a voluntary statement as to the quantity of paper used by them for certain purposes. Firms whose output of newspaper printing was valued at $£ 472,000$, or 40 per cent. of the total, stated that they used about 10,000 tons of paper. It was also stated that 24,000 tons of paper were used for magazines and 10,000 tons for printed books, but as the printing of books, \&c., on sheets is included under "job and general printing". it cannot be stated what proportion of the total output is represented by those quantities.

Net Output.-The net output of the factories and workshops covered by the Tables on pages 627 to 629 (whose gross output was valued at $£ 24,709,000$ ) was $£ 15,344,000$, and workshepsenting the total amount by which the value of the output of those factories and workshops exceeded the cost of the materials used and the amount paid to other cost of materials used by those factories materials for the principal firms. The actual $£ 8,623,000$. The amount paid to other form £742,000.

The net output per head of persons employed in the censal year was a little over $\ddagger 88$.

Persons Employed.-The average number of persons employed on the last Wednesdays in January, April, July, and October in the factories, together with the number ordinarily employed in the workshops, covered by the Tables on pages 627 to 629 is returned as 174,116 , viz., 157,452 wage-earners and 16,664 salaried persons, the total number being distributed by age and sex as follows :-

Males :-
Under 18
23,463
Under 18 ..
Over 18 ..
19,385
Over 18 ... ... 94,432 ... ... 36,836
The variation in employment in factories during the censal year is shown in the following statement :-


There were also 6,911 wage-earners and 1,234 salaried persons ordinarily employed in workshops.

Power.-The particulars furnished with regard to power are summarised below, electricity purchased not being included :-

| - |  |  | Gross Value of Output. | Average Number of Persons Employed. | Total Capacity of Engines. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Factories with their own Engines <br> Factories renting their Power ... <br> Workshops (not using Power) ... |  | $\begin{aligned} & \ldots \\ & \ldots \\ & \ldots \end{aligned}$ | $\begin{gathered} £ \\ 23,808,000 \\ 103,000 \\ 798,00 \end{gathered}$ | $\begin{array}{r} 165,136 \\ 835 \\ 8,145 \end{array}$ | Horse-Power. 38,611 $\qquad$ |
| Total |  |  | 24,709,000 | 174,116 | 38,611 |

> Classed according to kinds of power, the particulars are :-
> Steam Engines :-
> Horse-Power.
> $\begin{aligned} & \text { Reciprocating } \\ & \text { Steam Turbines }\end{aligned}$
> $\begin{array}{r}\text {. } 15,239 \\ 18\end{array}$
> Total-Steam Engines
> .. 15,257
> Internal Combustion Engines (gas, oil, \&c.).. 23,127 Water Power
> Total...
> 38,611

As shown above, whereas the total number of persons employed in factories in the printing and bookbinding trades was 165,971 , firms employing 835 persons rented their power. Precise details as to the amount and kind of such power are not available, their power. Precise details as the in their special Returns power supplied to several firms engaged in different industries (see pages 15 to 18).
Firms using dynamos driven by their own engines were required to state their capacity, and the information furnished is summarised below :-

| Capacity of Dynamos driven by $:-$ |  |  |  | Kilowatts. |  |  |  |
| ---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Steam Engines : Reciprocating | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | 5,305 |  |  |
|  | Steam Turbines | $\ldots$ | $\ldots$ | $\ldots$ | 12 |  |  |
| Other Power | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | 2,610 |
| Total | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | 7,927 |

The capacity of those dynamos should not, of course, be added to that of the engines owned. What the information shows is that (taking 746 kilowatts as equivalent to 1,000 horse-power, and allowing about 10 per cent. for loss of energy in conversion) about 30 per cent. of the enginte-power belonging to printing and bookbinding factories was required for driving dynamos for the production of electric power and light.

Manufacturers were also required to state the quantity of electricity generated by their own dynamos, but owing to the insufficiency of their records a few of them were unable to do so. The following statement summarises the information furnished:-

| Dynamos driven by |  | Total Capacity of ${ }_{\text {Dy }}$ | Electricity Generated, so far as particulars were returned. |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | ${ }_{\text {chen }}^{\substack{\text { Capacaity of } \\ \text { Dymamos. }}}$ | ${ }_{\text {Hex }}^{\text {Heetrioity }}$ Generated. |
| Steam Engines : <br> Other Power | Reciprocating Steam Turbines |  | $\begin{gathered} \text { Kilowatts. } \\ 5,305 . \\ 2,610 \\ 2,610 \end{gathered}$ | Kilowatts. 5,002 12 2,195 | Board of Trade <br> Units. <br> 4,713,000 <br> 1,672,000 |
| Total |  | 7,927 | 7,209 | 6,398,000 |

About $10,936,000$ Board of Trade units of electricity were purchased by manufacturers for power and lighting purposes. This figure includes estimates made in the Census Office in respect of the quantities of electricity purchased by a number of small firms who were able to state only the amounts paid by them, but the total quantity so estimated forms a very small proportion of the whole.
Machinery.- In order to obtain a measure of the equipment of the printing industry, firms with factories receiving the Schedule for the printing and bookbinding trades were requested to make a voluntary statement respecting the number and kinds of important machines used by them. The total value of the output of printed books newspapers, magazines, job and general printing, music printing, and lithographic and photo-lithographic printing, as returned to the Census Office on the Schedules for the printing and bookbinding trades was $£ 18,383,000$. Firms with an output in those classes valued at $£ 5,985,000$, or $32 \cdot 6$ per cent. of the total, did not furnish any information, but firms with an output valued at $£ 12,398,000$, or $67 \cdot 4$ per cent. of the total, furnaished particulars which are summarised in the following statement :-

$$
\begin{aligned}
& \text { Machines :- } \\
& \text { Linotype and Type-setting } \\
& \begin{array}{l}
\text { Letterpress :- } \\
\text { Platen }
\end{array}
\end{aligned}
$$

$$
\begin{aligned}
& { }^{\text {Cylinder }} \text { I Under Quad Crown } \quad \ldots . \quad \ldots \quad \ldots . \\
& \text { Rotary } \\
& \begin{array}{l}
\text { Flat-bed }\left\{\begin{array}{llllr}
\text { Quad Crown and over } & \ldots & \ldots & \ldots & 632 \\
\text { Under Quad Crown } & \ldots & \ldots & \ldots & 1,871 \\
\text { Ruad Crown and over } & \ldots & \ldots & \ldots & 64 \\
\text { Rotary } & \text { Under Quad Crown } & \ldots & \ldots & \ldots \\
118
\end{array}\right.
\end{array}
\end{aligned}
$$

Machines owned by firms of newspaper publishers that do their own printing are not included in the foregoing figures, but are dealt with on page 610.

## (b) Government Departments.

Output.-The Tables on pages 630 and 631 give separately particulars respecting (1) printing done by the General Post Office, Savings Bank Department, and (2) mapmaking and other work done by the Ordnance Survey Department.
following statement :lowing statement:

1. General Post Office, Savings Bank Department :Value Job and General Printing

Other Products | £ |
| :---: |
| 7,221 |

Total-General Post Office..
2. Ordnance Survey Department Maps, \&c., made for sal 13,200

$$
\text { Total-Ordnance Survey Department ... } \quad \underline{76,670}
$$

The total value of the output of these Departments amounts to $£ 83,913$.
The value of the maps, \&c., made for sale by the Ordnance Sarvey Department is the selling value of such maps, but in the case of the printing done by the General Post Office and the work done by the Ordnance Survey Department for other Government Departments the value stated for the production is a sum representing the actual cost, i.e. it is made up of wages, materials used, and a proportion of the establishment charges. It dif er the output returned by private firms, which naturally on a profit basis.

In the Ordnance Survey Department, 91 tons of paper were used for maps ; in the printing department of the Savings Bank 170 tons of paper were used.

Net Output.-The total cost of the materials used in these two Departments was $£ 16,058$ and $£ 19$ was paid to other firms for work given out. The difference- $£ 67,836-$ between the total of these sums and the value of the output represents the total amount of wages and establishment charges and, in the case of maps, \&c., made for sale by the Ordnance Survey Department, the profit on such maps, \&c.

The net output per head of persons employed in the year of return was £146.
Persons Employed.-The average number of persons employed in the printing and map-making works of these two Departments on the last Wednesdays in April, July, and Otober 1907, and January, 1908, is returned as 464 , viz., 390 wage-earners and 74 salaried persons. the total number being distributed by age and sex as follows :-

Males :-
Under 18
Over 18
The variation in employment in factories during the censal year is shown in the following statement:-

|  | Persons Emploged on the last Wednesday in |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | January. | April. | July. | October. |
| Wage-earners Salaried Persons | $382$ | ${ }_{74}^{389}$ | $\begin{gathered} 396 \\ 73 \end{gathered}$ | $\begin{aligned} & 394 \\ & 72 \end{aligned}$ |
| Total | 457 | 463 | 469 | 466 |

Power.-No steam, internal combustion, or other engines were used, but 66,325 Board of Trade units of electricity were purchased and used in the Ordnance Survey Department for power and lighting purposes and 20,000 units in the printing department of His Majesty's Post Office (Savings Bank Department).

Machines.-The following machines were in use in the Ordnance Survey Department in 1907-1908:-

Letterpress :-
Platen Machines
Cylinder
Cylinder Machines: Under Quad Crown ... ... .... $\quad 2$,
Lithographic :-

$$
\text { Flat-bed Machines }\left\{\begin{array}{llllr}
\text { i. Quad Crown and over } & \ldots & \ldots & 4 \\
\text { ii. Under Quad Crown } & \ldots & \ldots & 10
\end{array}\right.
$$

Flat-bed Machines: Quad Crown and over ... ... 2
In the Savings Bank Department three Platen Machines and twc Cylinder Machines (one quad crown and over and one under quad crown) were in use.

## Printing and Publishing of Newspapers and other Periodicals.

Output.-The Tables on pages 632 to 634 are based on Returns received from the proprietors of newspapers and other periodicals who have factories or workshops where their own printing is done. Firms and companies that did not do their own printing, but gave it out to other firms are not included in these Tables, but the value of the printing done for them is included in the Tables on pages 627 to 629 and is dealt with in the preceding Report on the printing and bookbinding trades (see pages 602 to 606). Representations were made to the Census Office that proprietors of newspapers and other periodicals would not as a rule be able to furnish separate Returns of their business as printers on the same lines as other printers, that part of their business being unavoidably involved with their business as publishers of newspapers, \&c. They were accordingly instructed to state as the value of their output the total receipts of their newspapers and periodicals from sales, subscriptions, and advertisements. In respect of other branches of binders, the amount charged to customers for printing case of other printers and book-

The following statement gives the priars furnished work done for them. uch establishments, and is substantially free from duplication :


The total value of the output included in the foregoing statement amounts to $£ 13,548,000$. There may, however, be some duplication between the sums entered under the headings "stereotyping and electrotyping " and " other work done " and the amounts entered under "newspapers." There is no information as to its extent, but the amoun so duplicated can only be small. Further, in this case the amount ( $£ 187,000$ ) paid by the firms making Returns for work given out to other firms does not represent work such as printing) returned by the latter firms in the Returns summarised in the Tables on pages 632 to 634 and in this part of the Keport, but work such as the engraving of process blocks, \&c., the value of which is returned on Schedules for other
trades.

In order to obtain another measure of this branch of the printing trade, the firms receiving the Schedule for newspaper printing and publishing were asked to state the quantity of paper used by them in the printing of newspapers. Firms whose output of newspapers was valued at $£ 3,387,000$, or $31 \cdot 2$ per cent. of the value of the total output of newspapers, did not furnish any information, but firms whose production of newspapers was valued at $£ 7,460,000$, or $68 \cdot 8$ per cent. of the whole, stated that they used 189,000 tons of paper for producing newspapers and newspaper posters, 7,000 tons for producing magazines, and 480 tons for producing books.

Net Output. -The net output of the factories and workshops covered by the Tables on pages 632 to 634 (whose gross output was valued at $£ 13,548,000$ ) was $£ 8,867,000$, that sum representing the total amount by which the value of the output of such factories exceeded the cost of the materials used and the amount paid to other firms for work done by them for the principal firms. The actual cost of materials used was about $£ 4,494,000$. The amount paid to other firms for work given out to them was $£ 187,000$.

The net output per head of persons employed in the censal year was nearly $£ 190$ The net output per head is large, but it should be noted that payments to news agencies and literary contributors and the expenses of distribution have to be defrayed from the net output as well as wages, salaries, rent, rates, insurance, and other establishment charges and profits.

Persons Employed.- The average number of persons employed on the last Wednesday in January, April, July, and October in the factories, together with the number ordinarily employed in the workshops, covered by the Tables on pages 632 to 634 is returned as 6,786 , viz., 34,210 wage-earners and 12,576 salaried persons, the total number being distributed by age and sex as follows :-

Males :-
$\begin{array}{ll}\text { es :- } \\ \text { Under } 18 & \ldots \\ \text { Over } 18 & \ldots\end{array}$
6,073
Females :-
Under 18
1,049
The number of salaried persons includes clerks, travellers, and canvassers, and the editorial and management staffs, but not contributors who devote only a part of their time to the service of the paper.

The variation in employment in factories during the censal year is shown in the following statement :--

|  |  |  |  | Persons Employed on the last Wednesday in |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | January. | April. | July. | October. |
| Wage-earners ... Salaried Persons |  | $\ldots$ | $\ldots$ | $\begin{aligned} & 33,899 \\ & 12,498 \end{aligned}$ | $\begin{aligned} & 33,966 \\ & 12,487 \end{aligned}$ | $\begin{aligned} & 33,873 \\ & 12,491 \end{aligned}$ | $\begin{aligned} & 34,187 \\ & 12,518 \end{aligned}$ |
| Total ... | ... |  | ... | 46,397 | 46,453 | 46,364 | 46,705 |

There were also 229 wage-earners and 77 salaried persons ordinarily employed in workshops.

Power.-The particulars furnished with regard to power are summarised below, electricity purchased not being included:-

| - |  |  | Gross Value of Output. | Average Number of Persons Employed. | Total Capacity of Engines. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Factories with their own Engines Factories renting their Power ... Workshops (not using Power) ... |  | $\ldots$ | $\underset{13,487,000}{£}$ | 46,466 | Horse-Power. 16,365 |
|  | ... | $\ldots$ | 2,000 | 14 306 | - |
|  |  | ... | 59,000 |  |  |
| Total ... | ... | ... | 13,548,000 | 46,786 | 16,365 |

Classed according to kinds of power, the particulars are :Steam Engines :-

Reciprocating
Steam Turbines ...

Internal Combustion Engines (gas, oil, \&c.)

Total
16,365
Precise details as to the amount and kind of power rented are not available.
Firms using dynamos driven by their own engines were required to state their capacity, and the information furnished is summarised below :-

| Capacity of Dynamos driven by :- |  |  |  |  | Kilowatts. |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | ---: |
| Steam Engines, Reciprocating | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | 829 |  |  |
| Sther Power | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | 1,498 |
|  |  | Total | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | 2,327 |

2467\%

The capacity of those dynamos should not, of course, be added to that of the engines owned. What the information shows is that (taking 746 kilowatts as equivalent to 1,000 horse-power, and allowing about 10 per cent. for loss of energy in conversion) about 21 per cent. of the engine-power belonging to newspaper printing factories was required for driving dynamos for the production of electric power and light.

Manufacturers were also required to state the quantity of electricity generated by their own dynamos, but owing to the insufficiency of their records a number of them were unable to do so. The following statement summarises the information furnished :-

| Dynamos driven by |  |  | Total Capacity ofDynamus. | Electricity Generated, so far as particulars were returned. |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Capacity of Dynamos. | Electricity Generated. |
| Steam Engines, Reciprocating Other Power |  |  | $\begin{gathered} \text { Kilowatts. } \\ 829 \\ 1,498 \end{gathered}$ | Kilowatts. 818 872 | Board of Trade Units. $1,672,000$ 671,000 |
| Total | ... | $\ldots$ | 2,327 | 1,690 | 2,343,000 |

The number of Board of Trade units of electricity purchased by manufacturers for power and lighting purposes was about $16,540,000$ units. This figure includes estimates made in the Census Office in respect of the quantities of electricity purchased by a number of small firms who were able to state only the amounts paid by them, but the total quantity so estimated forms a very small proportion of the whole.

Machines.-In order to obtain a measure of the equipment of the trade, all firms that received the Schedule for establishments engaged in the printing and publication of newspapers were requested to make a voluntary statement as to the number and kind of important machines used by them. Firms with an output of newspapers valued at $£ 2,383,000$ (or 22 per cent. of the total value of newspapers) and an output of other products valued at $£ 492,000$ (or 18.2 per cent. of the total value of other products) did not furnish any information. Firms whose output of newspapers was valued at $£ 8,464,000$ (or 78 per cent. of the total value of newspapers) and whose output of other products was valued at $£ 2,209,000$ (or $81 \cdot 8$ per cent. of the total value of other products) stated the number of their machines as under :-

| Linotype and Type-setting Machines | ... | $\ldots$ | .. | Number. |
| :---: | :---: | :---: | :---: | :---: |
| Letterpress Machines- |  |  |  |  |
| Platen ... .. | ... | ... | ... | 1,339 |
| $\text { Cylinder }\left\{\begin{array}{l} \text { Quad Crown and over } \\ \text { Under Quad Crown } \end{array}\right.$ | $\ldots$ | $\ldots$ | $\ldots$ | $1,004$ |
| Rotary ... | ... | ... | ... | 495 |
| Lithographic Machines- |  |  |  |  |
| Flat-bed $\left\{\begin{array}{l}\text { Quad Crown and over } \\ \text { Under Quad Crown }\end{array}\right.$ | ... | $\ldots$ | $\ldots$ | $\begin{aligned} & 50 \\ & 70 \end{aligned}$ |
| Rotary $\left\{\begin{array}{l}\text { Quad Crown and over } \\ \text { Under Quad Crown }\end{array}\right.$ | $\ldots$ | $\ldots$ | ... | 17 |

Typefounding, Stereotyping, Engraving, and Die-sinking Trades.
Output.-The Tables on pages 635 to 637 are based on Returns received from factories and workshops engaged in typefounding, stereotyping, electrotyping, engraving of blocks, plates, \&c., die-sinking and relief-stamping. The aggregate gross value of the output of the firms that made their Returns on the Schedules for the typefounding, stereotyping, engraving, and die-sinking trades is returned as $£ 970,000$, to which should be adde by firms that made of similar goods and work included in their statements of outpot by firms that made their Returns on Schedules for other trades. The resulting toutal of
$£ 1,221,000$ is free from duplication.

The following statement shows the value of the output of the principal branches of the trade :-

|  | Returned on Schedules for the Typefounding, \&c., Trades. | Returned on Schedules for other Trades | Total. |
| :---: | :---: | :---: | :---: |
|  | $\stackrel{£}{£}$ | $\begin{aligned} & £_{4,000} \end{aligned}$ | $\underset{289,000}{£}$ |
| Printing Type Printers' Sundries (Leads, ${ }^{\text {a }}$ Quads, Rules, \&c.) $\ldots$... | $\begin{array}{r} 285,000 \\ 72,000 \end{array}$ | $\begin{array}{r} 4,000 \\ 29,000 \end{array}$ | $101,000$ |
| Stereotyping and Electrotyping ... ... | 89,000 | 145,000 | 234,000 |
| Engraving of Blocks, Plates, \&c. :- |  |  |  |
| Steel and Copper Plates (Intaglio Work) Wood Blocks (Relief Work) | 33,000 <br> 3 | 1,000 | 34,000 |
| Process Blocks (Relief Work) ... | 202,000 | - | 202,000 |
| Total-Engraving of Blocks, Plates, \&c. ... | 273,000 | 25,000 | 298,000 |
| Die-sinking ... ... | 39,000 | 37,000 | 76,000 |
| Relief-stamping ... $\ldots \ldots$..... $\ldots$ | 32,000 | - | 32,000 15,000 |
| Die-sinking and Relief-stamping, not separately distinguished. | 15,000 | - | 15,000 |
| Metal Stamps, Marks, and Stencils | 22,000 |  | 22,000 3000 |
| Rubber Stamps and Accessories ... ... | 19,000 | 11,000 | 30,000 |
| T'otal ... | 846,000 | 251,000 | 1,097,000 |

The quantity of type made was about 2,300 tons. The exports and imports of printing type were not shown separately in the Annual Statement of Trade before 1908, when 533 tons were exported and 40 tons were imported and retained in the United Kingdom. "Printers' materials, unenumerated," valued at £50,000, free on board, were exported in 1907, but this heading, while exclud than does that of " printers' sundries " above.

It should be noted that work done by printing firms for their own use, such as the preparation of linotype metal, the engraving of process blocks, \& c., is not included in the foregoing statement, the value of such work being covered by the value of the books, periodicals, \&c., printed (see pages 603 and 608).
. Firms that received the Schedules for the typefounding, stereotyping, engraving, and die-sinking trades also included in their statements of output the value of the following die-sinking trades also included in their statements of work which are chiefly executed by other trades and are dealt with in the classes of work which are
Reports on those trades:-

Engraving on Gold and Silver Goods, Copper, Zinc, \&c. ; Heraldic and other Work ... ... ... ... ...

Engraving Rollers for Calico Printers, Wall Paper Manufac-
turers, \&c. ... ... ... ... ... ... ... turers, \&c. ..
Other Products and Work Done ...
Total
124,000
Engraving, \&c., when done in men's workshops, is not included in the above totals, as such workshops were, as a rule, not included in the official list of workshops.

Net Output.-The net output of the factories and workshops, covered by the Tables pages 635 to 637 (whose gross output was valued at $£ 970,000$ ) was $£ 666,000$, that sum representing the total amount by which the value of the output of those factories and workshops exceeded the cost of the materials used. The actual cost of materials used by those factories and workshops, taken as a whole, was £304,000.

The net output per head of persons employed in the censal year was a little over $£ 102$.
Persons Employed.-The average number of persons employed on the last Wednesdays in January, April, July, and October in the factories, together with the number ordinarily employed in the workshops, covered by the Tables on pages 635 to 637,
is returned as 6,519 , viz., 5,614 wage-earners and 905 salaried persons, the total number being distributed by age and sex as follows :-

| Males :- |  |  |  | Females :- |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Under 18 | $\ldots$ | $\ldots$ | 1,060 | Under 18 | $\ldots$ | $\ldots$ | 362 |
| Over 18 | $\ldots$ | $\ldots$ | 4,455 | Over 18 | $\ldots$ | $\ldots$ | 642 |

The variation in employment in factories during the censal year is shown in the following statement :-

|  |  |  |  | Persons Employed on the last Wednesday in |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | January. | April. | July. | October. |
| Wage-earners ... Salaried Persons |  | $\ldots$ | $\ldots$ | $\begin{aligned} & 4,073 \\ & 506 \end{aligned}$ | $4,127$ | $\begin{array}{r} 4,057 \\ 514 \end{array}$ | $4,121$ |
| Total | ... |  | ... | 4,579 | 4,642 | 4,571 | 4,635 |

There were also 1,519 wage-earners and 393 salaried persons ordinarily employed workshops.
Pover.-The particulars furnished with regard to power are summarised below, electricity purchased not being included :-


Classed according to kinds of power, the particulars are :-

$$
\begin{aligned}
& \text { Steam Engines, Reciprocating } \\
& \text { Horse-Power. } \\
& \text { Internal Combustion Engines (gas, oil, \&c.) .. } \\
& \text { Total }
\end{aligned}
$$

Precise details as to the amount and kind of power rented are not available
Firms making Returns also owned dynamos driven by other power than steam engines, their capacity being 33 kilowatts.

The capacity of those dynamos should not, of course, be added to that of the engines owned. What the information shows is that (taking 746 kilowatts as equivalent to 1,000 7 per cent, and allowing about 10 per cent. for loss of energy in conversion) abou required for driving dynamos for the production of electric power and light.

Manufacturers were also required to state the quantity of electricity generated by their own dynamos, but owing to the insufficiency of their records a number of them were unable to do so. Firms, however, with dynamos of 10 kilowatts capacity stated that the amount of electricity generated was 14,000 Board of Trade units.

About 699,000 Board of Trade units of electricity were purchased by manufacturers for power and lighting purposes. This figure includes estimates made in the Census Office in respect of the quantities of electricity purchased by a number of small firms who were able to state only the amounts paid by them.

## Manufactured Stationery Trades.

(a) Private Firms and Companies.

Output.-The Tables on pages 638 to 640 are based upon Returns received from factories and workshops engaged in the manufacture of stationery and other articles of paper and cardboard. The aggregate gross value of the output of the firms that made paper and cardboard. She aggregate gross value of the output of the firms that made
$£ 4,414,000$, to which should be added $£ 1,342,000$, the value of similar goods included in their statements of output by firms that made their Returns on Schedules for other trades. The resulting total of $£ 5,756,000$ contains, however, some duplication. There should also be added $£ 2,155$ the cost of articles of stationery made by the Post Office Savings Bank (see page 615) and £1,890 for stationery made by the telegraph and telephone departments of the Post Office (see page 868).
Manufacturing stationers were not required to give separate particulars of the various classes of goods made by them, representations having been received to the effect that these particulars would not ordinarily be available, since such firms generally combined a manufacturing with a merchant business and the two classes of transactions were requently not kept separate in their books. Such firms, accordingly, were allowed to estimate the value of the goods manufactured by them, which they stated in one sum as " manufactured stationery of paper or cardboard, including notepaper, envelopes, account books, blank books, cards, cardboard boxes, paper bags, cc. Some firms, however, that either kept accounts of the various branches of their output or specialised in the manacture of certain classes of goods, returned separate particulars of the values of the goods made by them, and the total for each of such classes is given in Table 1 . on page 438 , and in the statement below, but it " roods are included under the general heading of " manufactured stationery.

The following statement shows the details furnished respecting the output of the chief products of the trade :-

|  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

The principal output of cardboard boxes is dealt with on page 616 , that of printing gold blocking, and stamping on page 603, and that of "other products" and "other work" in the Reports on the trades to which they belong. The weight of paper bags, valued at $£ 466,000$ and returned as such, was 663,000 cwts.

The amount received for work done for the trade on stationery ( $£ 16,000$ ) is pro bably all included in the value of the finished goods made, and part of the sums received for printing ( $£ 135,000$ ) and for gold blocking and stamping ( $£ 10,000$ ) may also be so included, but, as the amount paid to other firms for work given out to them was returned as $£ 95,000$, it follows that work to the value of $£ 66,000$ consisted of printing, goldblocking, and stamping done for customers not in the stationery trade. The "other work" (valued at $£ 8,000$ ) was done for merchants and retailers. Making allowance for this possible duplication the total value of the output, taken as a whole, of the factories and workshops covered by the Tables on pages 638 to 640 may be estimated at approxi mately $£ 4,317,000$ and that of the whole trade (exclusive of cardboard boxes, printing gold blocking, stamping, other products, and other work) at $£ 5,471,000$.

The imports and exports of manufactured stationery and the other articles included in the foregoing statement cannot be compared with the production in the United Kingdom as the classification adopted for the purposes of the Census differs from that given in the Export and Import lists (see page 600). The exports of paper bags in 1907 were 30,000 cwts. ; the imports were not recorded separately.

Net Output. - The net output of the factories and workshops covered by the Tables on pages 638 to 640 (whose gross output was valued at £4,414,000) was $£ 1,977,000$, that sum representing the total amount by which the value of the output of those factories and workshops exceeded the cost of the materials used and the amount paid to other firms for work done by them on those materials for the principal firms. The actual cost of materials used by those factories and workshops, taken as a whole, was £2,342,000. The amount paid to other firms for work given out to them was $£ 95,000$.

The net output per head of persons employed (exclusive of outworkers) in the censal year was a little over $£ 75$.

Persons Employed.-The average number of persons employed on the last Wednesdays in January, April, July, and October in the factories, together with the number ordinarily employed in the workshops, covered by the Tables on pages 638 to 640 is returned as 26,227 , viz., 23,066 wage-earners and 3,161 salaried persons, the total number being distributed by age and sex as follows :-

Males :-
Under 18
Over 18
2,043
8,501
Females :-
Under 18
Over $18 \ldots$
4,896
Over $18 \ldots$... 8,501 Over $18 \ldots$.... 10,787
In addition, the average number of outworkers on the books of the employing firms on 1st February and 1st August, 1907, was 184, viz., 4 males and 180 femples.

The variation in employment in factories during the censal year is shown in the following statement :-

| - |  |  |  | Persons Emplcged on the last Wednestay in |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | January. | April. | July. | October. |
| Wage-earners Salaried Persons |  |  | ... | $\begin{gathered} 19,802 \\ 2,682 \end{gathered}$ | $\begin{gathered} 19,731 \\ \substack{2,666} \end{gathered}$ | $\begin{gathered} 19,858 \\ 2,649 \end{gathered}$ | $\begin{gathered} 20,578 \\ 2,694 \\ \hline \end{gathered}$ |
| Total ... |  | ... | ... | 22,484 | 22,397 | 22,507 | 23,272 |

There were also 3,074 wage-earners and 488 salaried persons ordinarily employed in workshops.

Power.-The particulars furnished with regard to power are summarised below, electricity purchased not being included :-


> Classed according to kinds of power, the particulars are :- Horse-Power. Steam Engines, Reciprocating
> Internal Combustion Engines (gas, ill, ... $\quad .$. Water Power $\begin{array}{r}1,409 \\ \hline\end{array}$
> Total
> 3,620

As shown above, whereas the total number of persons employed in factories in the manufactured stationery trade was 22,665 , firms employing 436 persons rented their power. Precise details as to the amount and kind of such power are not available since landlords frequently included in their special Returns power supplied to several firms engaged in different industries (see pages 15 to 18).

Firms using dynamos driven by their own engines were required to state their capacity, and the information furnished is summarised below :-

Capacity of Dynamos driven by :-
Kilowatts. Steam Engines, Reciprocating 101
Other Power 263

## Total

 364The capacity of those dynamos should not, of course, be added to that of the engines owned. What the information shows is that (taking 746 kilowatts as equivalent to 1,000 horse-power, and allowing about 10 per cent. for loss of energy in conversion)
about 15 per cent. of the engine-power belonging to manufactured stationery factories vas required for driving dynamos for the production of electric power and light

Manufacturers were also required to state the quantity of electricity generated by their own dynamos, but owing to the insufficiency of their records a number of them were unable to do so. The following statement summarises the information furnished :-

| Dynamos driven by |  | ${ }_{\text {Total Capacity of }}^{\text {Dynamos. }}$ | Eleetrioity Generated, sof far as |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | Capacity of | ${ }_{\text {Ele }}^{\text {Electricity }}$ Generated. |
| Steam Engines, Reciprocating ... Other Power | . | $\begin{gathered} \text { Kilowatts. } \\ 101 \\ 263 \end{gathered}$ | $\begin{gathered} \text { Kilowatts. } \\ 85 \\ 207 \end{gathered}$ | Board of Trade Units. 79,000 238,000 |
| Total |  | 364 | 292 | 317,000 |

About 837,000 Board of Trade units of electricity were purchased by manufacturer for power and lighting purposes. This figure includes estimates made in the Census Office in respect of the quantities of electricity purchased by a number of small firms who were able to state only the amounts paid by them.
(b) General Post Office, Savings Bank Department.

Output.-The Tables on page 641 give particulars respecting the output of the envelope factory of the Savings Bank Department of the General Post Office in the twelve envelope factory of the Savings
nths ended 31st March, 1908 .
The output consisted of envelopes valued at $£ 2,144$ and waste paper valued at $£ 11$, the total being £2,155. In this case, as in that of other classes of Government output, the value stated for the production is a sum representing the actual cost, i.e., it is made up of wages, materials used, and a proportion of the establishment charges. It differs, therefore, from the value of the output returned by private manufacturers, which is naturally on a profit basis.

Net Output.-The total cost of the materials used was £1,431, and the difference$£ 724$-between this sum and the value of the output represents the total amount of wages and establishment charges. It is, therefore, not strictly comparahle with the net output of private factories, which contains the element of profit.

The net output per head of persons employed in the year of return was nearly £121. Persons Employed. -The average number of persons employed on the last Wednesdays in April, July and October, 1907 , and January 1908 is returned as 6 , all male wageearners, of whom four were under and two over 18 years of age.

Power. $-4,000$ Board of Trade units of electricity were purchased and used for power and lighting purposes.

## Cardboard Box Trade.

Output.-The Tables on pages 642 to 644 are based on Returns received from factories and workshops engaged in the manufacture of cardboard boxes. Manufacturers in other trades who made cardboard boxes in which to pack their own goods were not required to make Returns of such boxes, the value of the goods sold being returned inclusive of all packing materials. A certain proportion of the output of cardboard boxes inclusive of all packing materiass. A certain proportion of the output of cardhoarlue of all
is also included in the Returns of manufacturing stationers who returned the valu their products (see page 613) in one total. The aggregate gross value of the output of the
firms making Returns on Schedules for the cardboard box trade is returned as $£ 2,129,000$ to which should be added £198,000, the value of cardboard boxes included in their statements of output by firms that made their Returns on Schedules for other trades. The resulting total of $\dot{\leftarrow 2} 2,327,000$ is free from duplication, except as regards an amount of $£ 2,000$.

The following statement gives the particulars furnished respecting the output of the factories and workshops covered by the Tables on pages 642 to 644 :-

| Plain and Fancy Cardboard Boxes-- |  |  |  |
| :---: | :---: | :---: | :---: |
| Rigid | $\ldots$ | $\ldots$ | $\ldots$ |
| Folding | $\ldots$ | $\ldots$ | $\ldots$ |
| Not separately |  |  |  |
| distinguished |  |  |  |

Value.
Rigid
$\stackrel{£}{£}$
Not separately distinguished
Total-Cardboard Boxes
271,000
271,000
607,000

| Boxes cf Cardboard and Wood $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | 11,000 |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Other Articles of Cardboard | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | 19,000 |
| Manufactured Stationery and Printing | $\ldots$ | $\ldots$ | $\ldots$ | 20,000 |  |
| Other Products $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ |
| 10,000 |  |  |  |  |  |

Manufactured Stationery and Printing.... Other Products

19,000
20,000
10,000
The value of the products included in the above statement amounts to £2,127,000 The sum of $£ 2,000$ was also received for work done for the trade, but it is included in the value of the finished goods made. Adding in the value ( $£ 198,000$ ) of cardboard boxes, not separately distinguished into rigid and folding, returned on Schedules for other trades, the total value of the boxes of cardboard or of cardboard and wood made for sale was $2,2,6,000$ exclusive of those made but not separately returned by manufacturing stationers.

The imports and exports of cardboard boxes were not separately distinguished in the Import and Export Lists in 1907

Net Output.-The net output of the factories and workshops covered by the Tables on pages 642 to 644 (whose gross output was valued at $£ 2129,000$ ) wa £ $1,114,000$, that sum representing the total amount by which the value of the output those factories and workshops exceeded the cost of the materials used and the amount paid to other firms for work done by them on those materials for the principal firms The actual cost of materials used by those factories and workshops, taken as a whole was $£ 1,002,000$. The amount paid to other firms for work given out to them was £13,000.

The net output per head of persons employed (exclusive of outworkers) in the censal year was a little over £52.

Persons Employed.-The average number of persons employed on the last Wednesdays in January, April, July, and October in the factories, together with the number ordinarily employed in the workshops, covered by the Tables on pages 642 to 644 is returned as 21,368 , viz., 19,844 wage-earners and 1,524 salaried persons, the total number being distributed by age and sex as follows : -
Males:-
Under 18
Over 18
.. 1,054
Females :-
Under 18
... 5,133

In addition, the average number of outwerkers, on the books of the employing firms on 1st February and 1st August, 1907, was 1,408 , viz., 3 males and 1,405 females.

The variation in employment in factories during the censal year is shown in the following statement :-


There were also 3,487 wage-earners and 280 salaried persons ordinarily employed in workshops.

Power.-The particulars furnished with regard to power are summarised below, electricity purchased not being included :-

| - |  |  |  |  |  |  |  |  |  | Gross Value of <br> output. | Average Number of <br> Persons Emploged. | Total Capacity of <br> Engines. |
| :--- | :--- | :--- | :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

Classed according to kinds of power, the particulars are :-
Steam Engines, Reciprocating
Internal Combustion Engines (gas, oil, \&c.)
Water Power
Other Power
Horse-Power.
480
1,795
1,795

2,288
As shown above, whereas the total number of persons employed in factories in the cardhoard box trade was 17,601 , firms employing 259 persons rented their power. Precise details as to the amount and kind of such power are not available, since landlords Precise details as to the amount and inently included in their special Returns power supplied to several firms engaged in different industries (see pages 15 to 18).

Firms using dynamos driven by their own engines were required to state their capacity, and the information furnished is summarised below :-


The capacity of those dynamos should not, of course, be added to that of the engines owned. What the information shows is that (taking 746 kilowatts as equivalent to 1,000 horse power, and allowing about 10 per cent. for loss of energy in conversion) about 32 per cent. of the engine-power belonging to cardboard box factories was required for driving dynamos for the production of electric power and light

Manufacturers were also required to state the quantity of electricity generated by their own dynamos, but owing to the insufficiency of their records a number of them were unable to do so. The following statement summarises the information furnished :-


About 543,000 Board of Trade units of electricity were purchased by manufacturers for power and lighting purposes. This figure includes estimates made in the Census Office in respect of the quantities of electricity purchased by a number of small firms who were able to state only the amounts paid by them.

Machinery.-In order to obtain a measure of the equipment of the trade, all firm that occupied factories and received the Schedule for the cardboard box trade were asked to furnish a voluntary statement respecting the number of the principal kinds of machine
used by them. Firms whose output of cardboard boxes and articles of cardboard was valued at $£ 857,000$, or $48 \cdot 2$ per cent. of the total factory output of such goods ( $£ 1,778,000$ ), did not furnish any information, but firms returning an output of $£ 921,000$, or 51.8 per cent. of the total value of boxes and articles of cardboard, returned on the Schedules for the cardboard box trade as made in factories supplied the following particulars :-

| Machines for :- |  |  |
| :--- | :--- | :--- |
| Cutting $\quad \ldots$ | $\ldots$ |  |
| Scoring $\ldots$. |  |  |
| Guillotining... | $\ldots$ |  |
| Corner and Slot Cutting |  |  |
| Punching and Stamping |  |  |
| Bending and Creasing |  |  |
| Wire Stitching | $\ldots$ |  |
| Corner Staying | $\ldots$ |  |
| Box Covering | $\ldots$ | $\ldots$ |

Worked by Hand. Worked by Power.

|  | Number |  | Number |
| :---: | :---: | :---: | :---: |
| $\ldots$ | 626 |  | 250 |
| ... | 177 | ... | 336 |
|  | 33 | ... | 234 |
|  | 169 | $\ldots$ | 231 |
| ... | 154 | . | 281 |
| ... | 31 | ... | 293 |
|  | 454 | $\ldots$ | 397 |
|  | 39 | ... | 242 |
| - | 213 | ... | 314 |

## Pen, Pencil, and Artists' Materials Trades.

Output.-The Tables on pages 645 and 646 are based on Returns received from factories and workshops engaged in the manufacture of pens, pencils, and artists' materials. The aggregate gross value of the output of the firms that made their Returns on the Schedules for the pen, pencil, and artists' materials trades is returned as $£ 734,000$, to which should be added $£ 57,000$ the value of similar goods included in their statements of output by firms that made their Returns on Schedules for other trades. Th resulting total of $£ 791,000$, contains, however, some duplication.

The following statement shows the particulars furnished in respect of the output of such factories and workshops :-

|  | Returned on Schedules for the Pen, Pencil, and Artists' Materials Trades. | Returned on Schedules for other Trades. | Total. |
| :---: | :---: | :---: | :---: |
| Gold Pens | $\stackrel{f}{f_{3,000}}$ | $£$ | $\stackrel{£}{£_{3,000}}$ |
| Pen-Nibs of Metals other than Gold, and Holders, Tips, \&c., for use therewith | 414,000 | 1,000 | 415,000 |
| Reservoir Pens and Stylographs, and parts thereof (including Repair Work) |  | 50,000 | 104,000 |
| Pencils, Pencil Leads, and Crayons ... ... ... | 53,000 | 1,000 | 54,000 |
| Artists' Materials (other than Pencils and Crayons)... | 150,000 | 5,000 | 155,000 |
| Artists' Cabinet Work (including easels and wooden paint boxes) | 14,000 | - | 14,000 |
| Small Steel Wares ... ... ... ... . | 29,000 | - | 29,000 |
| Other Products ... ... ... ... ... | 5,000 | - | 5,000 |
| Work Done for the Trade ... ... ... | 2,000 | - | 2,000 |
| Total ... | 734,000 | 57,000 | 791,000 |

As finished articles and parts thereof are included together in some classes it is not possible to state precisely the value of the products of the trade taken as a whole but it may be estimated that the value, free from duplication, of the output of pens, pencis, artists materials and cabinet work, and small steel wares was approximately 2 0 , "Ot of the finished goods made. "Other products," valued at $£ 5,000$, are dealt with in the Reports on the trades to which they belong.

In consequence of the restrictions imposed by the Census of Production Act it was not possible to require manufacturers to state the quantity of their output. All makers of pens, therefore, were requested to make a voluntary statement as to the quantities of pens made by them. On the basis of the answers received (which were almost complete in the case of gold pens) it is estimated that 3,600 gross of gold pens, valued at $£ 13,000$, were made, exclusive of those made by firms and used by them in the manufacture of
reservoir pens entered separately as such. Firms with an output of pen-nibs (of metals other than gold), holders, tips, \&c., valued at $£ 131,000$ out of a total of $£ 414,000$, stated that they made $3,181,000$ gross of pen-nibs of steel, and 32,000 gross of nibs of other metals.

Pens and pencils are included with. "Stationery other than paper" in the Export and Import Lists, and the exports of artists' materials are included under the same heading with potters' colours and materials, exports of which were valued in 1907 at about $£ 74,000$, free on board.

Net Output.-The net output of the factories and workshops covered by the Tables on pages 645 and 646 (whose gross output was valued at £734, 000 ) was £ 490,000 , that sum representing the total amount by which the value of the output of those factories and workshops exceeded the cost of the materials used and the amount The actual cost of materials used by those factories and workshops, taken as a whole, cannot be stated precisely, but it may be estimated at approximately £200,000. The amount paid to other firms for work given out to them was $£ 10,000$.

The net output per head of persons employed (exclusive of outworkers) in the censal year was £77.

Persons Employed.-The average number of persons employed on the last Wednesdays in January, April, July, and October in the factories, together with the number ordinarily employed in the workshops, covered by the Tables on pages 645 and 646 , is returned as 6,368 , viz., 6,025 wage-earners and 343 salaried persons, the total number being distributed by age and sex as follows :-
Males:-
Under 18
Over 18
379
1,551
Females:-
Under 18
Under 18
Over 18
908
3,530

In addition, the average number of outworkers borne on the books of the employing firms on 1st February and 1st August, 1907, was 23, viz., 2 males and 21 females.

The variation in employment in factories during the censal year is shown in the following statement :-


There were also 70 wage-earners and 15 salaried persons ordinarily employed in workshops.

Power.-The particulars furnished with regard to power are summarised below, electricity purchased not being included :-

| - |  |  | Gross Value of | Average Number of Persons Employed. | Total Capacity of Engines. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Factories with their own Engines Workshops (not using Power) ... |  |  | $\begin{gathered} f \\ 716,000 \\ 18,000 \end{gathered}$ | $\begin{array}{r} 6,283 \\ 85 \end{array}$ | Horse-Power. $1,450$ |
| Total |  |  | 734,000 | 6,368 | 1,450 |

Classed according to kinds of power, the particulars are :-

| Steam Engines, Reciprocating... <br> Internal Combustion Engines (gas, oil, \&c.) |  |  |  | Horse-Power. |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | $\ldots$ | $\ldots$ | 936 469 |
|  |  |  | $\ldots$ | $\ldots$ | 45 |
| Total | ... $\quad$. | ... | ... | ... | 1,450 |

Firms using dynamos driven by their own engines were required to state their capacity, and the information furnished is summarised below :-

Capacity of Dynamos driven by :-
Steam Engines, Reciprocating Other Power

Total ...
$\begin{array}{ll}\cdots & \cdots \\ \ldots & \ldots\end{array}$
....

The imports of ink and sealing wax are included under the heading "stationery other than paper" ; the exports of writing ink and sealing wax are also entered under the heading of "stationery other than paper," and those of "printing ink " under the heading "goods manufactured, unenumera exports and impor
output of the factories and workshops covered by the Tables on pages 647 and 648 (whose gross output was valued at $£ 888,000$ ) was $£ 463,000$ that sum representing the total amount by which the value of the output of those actories and workshops exceeded the cost of the materials used. The actual
The net output per head of persons employed in the censal year was nearly $£ 280$.
Persons Employed.-The average number of persons employed on the las Wednesdays in January, April, July, and October in the factories, together with the Wednes ordinarily emploved in the workshops, covered by the Tables on pages 647 and 648 is returned as 1,655 , viz., 1,201 wage-earners and 454 salaried persons, the total number being distributed by age and sex as follows :-

Males :-

$$
\begin{gathered}
\text { Females :- } \\
\text { Under } 18 \\
\text { Over } 18
\end{gathered}
$$

.. 100
180

$$
\begin{array}{llll|llll}
\text { Under } 18 & \ldots & \ldots & 94 & \ldots & 1,281 & \ldots & \text { Over } 18
\end{array} \ldots_{18} . . .
$$

The variation in employment in factories during the censal year is shown in the following statement :--

|  |  |  | Employed | st Wedne |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | January. | April. | July. | October. |
| Wage-earners Salaried Persons |  | $\begin{aligned} & 959 \\ & 380 \end{aligned}$ | $\begin{aligned} & 954 \\ & 383 \end{aligned}$ | $\begin{aligned} & 957 \\ & 390 \end{aligned}$ | $\begin{aligned} & 967 \\ & 388 \end{aligned}$ |
| Total | $\ldots$ | 1,339 | 1,337 | 1,347 | 1,355 |

There were in addition also 242 wage-earners and 69 salaried persons ordinarily employed in workshops

Power. -The particulars furnished with regard to power are summarised below, electricity purchased not being included :-


Classed according to kinds of power, the particulars are :-


Precise details as to the amount and kind of powerr rented are not available.
Certain firms also used dynamos driven by their own steam engines, their capacity being 39 kilowatts.

The capacity of those dynamos should not, of course, be added to that of the engines owned. What the information shows is that (taking 746 kilowatts as equivalent to 1,000 horse-power, and allowing about 10 per cent. for loss of energy in conversion) abou 3 per cent. of the engine-power belonging to ink, gum, and sealing-wax factories was required for driving dynamos for the production of electric power and light. The amount of energy generated by those dynamos was 22,000 Board of Trade units.

About 569,000 Board of Trade units of eiectricity were purchased by manufacturers for power and lighting purposes. This figure includes estimates made in the Census Office in respect of the quantities of electricity purchased by a number of small firms who were able to state only the amounts paid by them.

## Trade Photography

Output.-The Tables on pages 649 and 650 are based on Returns received from factories and workshops engaged in photographic work other than portraiture. Firms mainly engaged in taking portraits of private customers were not required to make Returns.

The following statement gives the particulars furnished respecting the output of such establishments, and is free from duplication:-

$$
\begin{array}{ccccccr}
\text { Photographic work of all kinds } & \text { (including } & \text { Developing, } & \text { f } \\
\text { Printing, Enlarging, \&c.) } & \text {... } & \text {... } & \text {... } & \text {... } & 197,000 . \\
\text { Other Products } & \ldots & \ldots & \ldots & \text {... } & \text {... } & \text {... } \\
\hline
\end{array}
$$

In addition to the $£ 209,000$ shown above, firms that made their Returns on Schedules for other trades included in their statements of output photographic work to the value of $£ 2,000$.

Net Output.-The net output of the factories and workshops covered by the Tables on pages 649 and 650 (whose gross output was valued at £209,000) was £119,000, that sum representing the total amount by which the value of the output of those factories and workshops exceeded the cost of the materials used. The actual cost of materials used by the trade, taken as a whole, was $£ 90,000$.

The net output per head of persons employed in the censal year was nearly $£ 118$.
Persons Employed.-The average number of persons employed on the last Wednesdays in January, April, July, and October in the factories, together with the number ordinarily employed in the workshops, covered by the Tables on pages 649 and 650 is returned as 1,011, viz., 772 wage earners and 239 salaried persons, the total number being distributed by age and sex as follows :-

$$
\begin{array}{cccc|c}
\text { Males :- } & & & & \text { Females :- } \\
\text { Under } 18 & \ldots & \ldots & 97 & \text { Under } 18 \\
\text { Over 18 } & \ldots & \ldots & 542 & \text { Over } 18
\end{array}
$$

The variation in employment in factories during the censal year is shown in the following statement :-

| -. |  |  |  | Persons Employed on the last Wednesday in |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | January. | April. | July. | October. |
| Wage-earners ... | ... | ... | $\ldots$ | 275 | 270 | 266 | 270 |
| Salaried Persons | ... | ... | ... | 112 | 130 | 122 | 127 |
| Total ... | ... | ... | ... | 387 | 400 | 388 | 397 |

There were also 502 wage earners and 116 salaried persons ordinarily employed in workshops.

Power.-The particulars furnished with regard to power are summarised below, electricity purchased not being included :-

| - |  |  |  | Gross Value of Output. | Average Number of Persons Employed. | Total Capacity of Engines. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Factories with their own Engines Workshops (not using Power) ... |  |  |  | $\begin{gathered} f \\ 96,000 \\ 113,000 \end{gathered}$ | $\begin{aligned} & 393 \\ & 618 \end{aligned}$ | Horse-Power. <br> 210 |
| Total | ... ... |  |  | 209,000 | 1,011 | 210 |

Classed according to kinds of power, the particulars are :Internal Combustion Engines (gas, oil, \&c.) ... Horse-Powe

Total .. ... 110 100 $\overline{210}$

Certain firms also used dynamos driven by other engines than steam engines, thei capacity being 117 kilowatts.

The capacity of those dynamos should not, of course, be added to that of the engines wned. What the information shows is that (taking 746 kilowatts as equivalent to 1,000 horse-power, and allowing about 10 per cent. for loss of energy in conversion) about 83 per cent. of the engine-power belonging to photographic factories was required for driving dynamos for the production of electric power and light. The amount of nergy generated by those dynamos was 99,000 Board of Trade units.

About 88,000 Board of Trade units of electricity were purchased by manufacturers for power and lighting purposes. This figure includes estimates made in the Census Office in respect of the quantities of electricity purchased by some small firms who were able to state only the amounts paid by them.

Paper Trade-continued.
TABLE II-COST OF MATERIALS USED, SHOWN IN RELATION TO VALUE OF OUTPUT.

Note.-The figures in this Table are given to the nearest thousand in each case.

| - | $\underbrace{\text { Wales. }}_{\text {England and }}$ | Scotland. | Ireland. | ${ }_{\substack{\text { United } \\ \text { Kingdom, }}}^{\text {den }}$ |
| :---: | :---: | :---: | :---: | :---: |
| I. | £ | £ | £ | £ |
| Cost of Materials Used | 6,599,000 | 2,423,000 | 127,000 | 9,079,000 |
| Value of Output ... | 9,835,000 | 3,599,000 | 187,000 | 13,621,000 |
| Value of Output less Cost of Materials Used ... | 3,306,000 | 1,176,000 | 60,000 | 4,542,000 |

TABLE III.-PERSONS EMPLOYED.
Average Numbers at Work on the Last Wednesdays in Jandary, April,


Paper Trade-continued
TABLE IV.-CAPACITY OF ENGINES OWNED AND AMOUNT OF ELECTRICITY PURCHASED.
a.-Capacity of Engines Owned, compared with Gross Value of Output and Number of Persons Employed.
Note.-The Gross Value of Output in this Table is given to the nearest thousand pounds.

|  | $\begin{gathered} \text { Gross Value } \\ \text { of } \\ \text { Output. } \end{gathered}$ | Number of Persons Employed. | $\begin{gathered} \text { Total } \\ \text { Capacity of } \\ \text { Engines. } \end{gathered}$ | $\begin{aligned} & \text { Gross Value } \\ & \text { of } \\ & \text { Output. } \end{aligned}$ | Number of Persons Employed. | $\begin{gathered} \text { Total } \\ \text { Capacity of } \\ \text { Engines. } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | England and Wales. |  |  | Scotland. |  |  |
| Factories with their own Engines .. Factories renting their Power | 9,813,000 22,000 | 28,913 | HorsePower. 119,679 | $£$ $3,596,000$ 3,000 | $\begin{array}{r} 11,338 \\ 19 \end{array}$ | HorsePower. 48,595 |
| Total | 9,835,000 | 28,999 | 119,679 | 3,599,000 | 11,357 | 48,595 |
|  | Ireland. |  |  | United Kingdom. |  |  |
| Factories with their own Engines ... Factories renting their Power | $\begin{gathered} £ \\ 187,000 \end{gathered}$ | 599 | HorsePower. 3,950 | $\begin{gathered} £ \\ 13,596,000 \\ 25,000 \end{gathered}$ | $\begin{array}{r} 40,850 \\ 105 \end{array}$ | HorsePower. 172,224 |
| Total ... ... ... | 187,000 | 599 | 3,950 | 13,621,000 | 40,955 | 172,224 |


| - | England and Wales. | Scotland. | Ireland. | United <br> Kingdom. |
| :---: | :---: | :---: | :---: | :---: |
| Steam Engines : Reciprocating <br> Steam Turbines ... <br> Internal Combustion Engines (gas, | $\begin{gathered} \text { Horse-Power. } \\ 108,393 \\ 200 \\ 4,702 \end{gathered}$ | Horse-Power $\begin{array}{r} 41,116 \\ 3,270 \\ 82 \end{array}$ | Horse-Power. $3,845$ <br> 二 | $\begin{gathered} \text { Horse-Power. } \\ 153,354 \\ 3,470 \\ 4,784 \end{gathered}$ |
| Water Power <br> Other Power | $\begin{array}{r} 6,346 \\ 38 \end{array}$ | 4,127 | 105 | $\begin{array}{r} 10,578 \\ 38 \end{array}$ |
| Total | 119,679 | 48,595 | 3,950 | 172,224 |
| Capacity of Dynamos driven by :Steam Engines: Reciprocating ... Other Power Steam Turbines | $\begin{gathered} \text { Kilowatts. } \\ 5,822 . \\ 150 \\ 1,170 \end{gathered}$ | Kilowatts. $\begin{aligned} & 5,007 \\ & 2,459 \\ & 306 \end{aligned}$ | Kilowatts. $\begin{array}{r} 343 \\ -\quad 25 \end{array}$ | $\begin{gathered} \text { Kilowatts. } \\ 11,172 \\ 2,609 \\ 1,501 \end{gathered}$ |
| 'Total | 7,142 | 7,772 | 368 | 15,282 |

c.-Amount of Electricity Purchased.

Note.-The figures in this Table are given to the nearest thousand in each case.

|  |  | England and <br> Wales. | Scotland. | Ireland. |
| :--- | :---: | :---: | :---: | :---: | | United |
| :---: |
| Kingdon. |

## PRINTING AND BOOKBINDING TRADES.

(a) Private Firms and Companies.

TABLE I.-OUTPUT.
Note.-The figures in this Table are given to the nearest thousand in each case. Amounts lower than five hundred are not shown.


* In order to avoid the possible disclosure of partieulars relating to certain firms, figures can only be shown for the

United Kingdom as a whole.
24678

## Printing and Bookbinding Trades-contiuued.

(a) Private Firms and Companies-continued.

TABLE II.-COST OF MATERIALS USED AND AMOUNT PAID TO OTHER FIRMS FOR WORK GIVEN OUT TO THEM, SHOWN IN RELATION TO VALUE OF OUTPUT.

Note.-The figures in this Table are given to the nearest thousand in each case.

| - | $\underset{\substack{\text { England and } \\ \text { Wales. }}}{\text {. }}$ | Scotland. | Ireland. | United Kingdom. |
| :---: | :---: | :---: | :---: | :---: |
| $\text { Cost of Materials Used }{ }^{\text {I. }} \text {.. }$ | $\stackrel{f}{7,317,000}$ | $\stackrel{£}{1,050,000}$ | $\stackrel{\&}{256,000}$ | $\stackrel{\mathfrak{f}}{8,623,000}$ |
| Amount Paid to Other Firms for Work Given | 636,000 | 94,000 | 12,000 | 742,000 |
| Total ... | 7,953,000 | 1,144,000 | 268,000 | 9,365,000 |
| Value of Output ... II. ... ... ... ... | 21,209,000 | 2,779,000 | 721,000 | 24,709,000 |
| III. <br> Value of Output less Cost of Materials Used and Amount Paid to Other Firms for Work Given Out to them. | 13,256,000 | 1,635,000 | 453,000 | 15,344,000 |

TABLE III.-PERSONS EMPLOYED.
Average Numbers at Work on the last Wednesdays in January, April, July, and October.
Noтe.-These figures include (a) the average number of persons at work on the last Wednesdays in January, April, July, and October in establishments where power is used; and (b) the numbers

|  | Males. |  |  | Females. |  |  | Males and Females. |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Under } \\ & 18 \text { years } \\ & \text { of age. } \end{aligned}$ | $\begin{gathered} \text { Over } \\ 18 \text { years } \\ \text { of age. } \end{gathered}$ | Total. | $\begin{gathered} \text { Under } \\ 18 \text { years } \\ \text { of age. } \end{gathered}$ | $\begin{gathered} \text { Over } \\ 18 \text { years } \\ \text { of age. } \end{gathered}$ | Total. | $\begin{gathered} \text { Under } \\ \text { in years } \\ \text { of age. } \end{gathered}$ | $\begin{aligned} & \text { Over } \\ & 18 \text { years } \\ & \text { of age. } \end{aligned}$ | Total. |
| England and Wales :- <br> Wage-earners Salaried Persons | $\begin{array}{r} 1 \\ 19,531 \\ 1,358 \end{array}$ | $\begin{aligned} & 71,453 \\ & 10,298 \end{aligned}$ | $\begin{aligned} & 90,984 \\ & 11,656 \end{aligned}$ | $\begin{array}{r} 14,3: 30 \\ 384 \end{array}$ | $\begin{array}{r} 26,412 \\ 1,640 \end{array}$ | $\begin{array}{r} 40,732 \\ 2,024 \end{array}$ | $\begin{gathered} 33,851 \\ 1,742 \\ \hline \end{gathered}$ | $\begin{aligned} & 97,865 \\ & 11,938 \end{aligned}$ | $\begin{array}{r} 131,716 \\ 13,680 \end{array}$ |
| Total | 20,889 | 81,751 | 102,640 | 14,704 | 28,052 | 42,756 | 35,593 | 109̊,803 | 145,396 |
| SCotland :-Wage-earners Salaried Persons | $\begin{array}{r} 1,531 \\ 166 \end{array}$ | $\begin{aligned} & 8,092 \\ & 1,291 \end{aligned}$ | $\begin{aligned} & 9,623 \\ & 1,457 \end{aligned}$ | $\begin{array}{r} 3,802 \\ 161 \end{array}$ | $6,241$ | $\begin{array}{r} 10,043 \\ 694 \end{array}$ | $\begin{array}{r} 5,333 \\ 327 \end{array}$ | $\begin{array}{r} 14,333 \\ 1,824 \end{array}$ | $\begin{array}{r} 19,666 \\ 2,151 \end{array}$ |
| Total | 1,697 | 9,383 | 11,080 | 3,963 | 6,774 | 10,737 | 5,660 | 16,157 | 21,817 |
| Ireland :- <br> Wage-earners Salaried Persons | $\begin{array}{r} 801 \\ 76 \end{array}$ | 2,725 | $\begin{array}{r} 3,526 \\ 649 \end{array}$ | $\begin{array}{r} 687 \\ 31 \end{array}$ | $\begin{array}{r} 1,857 \\ 153 \end{array}$ | $\begin{array}{r} 2,544 \\ 184 \end{array}$ | $\begin{array}{r} 1,488 \\ 107 \end{array}$ | $\begin{array}{r} 4,582 \\ 726 \end{array}$ | 6,070 |
| Total ... | 877 | 3,298 | 4,175 | 718 | 2,010 | 2,728 | 1,595 | 5,308 | 6,903 |
| United Kingdom :-Wage-earners Salaried Persons | $\begin{array}{r} 21,863 \\ 1,600 \end{array}$ | $\begin{aligned} & 82,270 \\ & 12,162 \end{aligned}$ | $\begin{array}{r} 104,133 \\ 13,762 \end{array}$ | $\begin{array}{r} 18,809 \\ \mathbf{5 7 6} \end{array}$ | $\begin{array}{r} 34,510 \\ 2,326 \end{array}$ | $\begin{array}{r} 53,319 \\ 2,902 \end{array}$ | $\begin{array}{r} 40,672 \\ 2,176 \end{array}$ | $\begin{array}{r} 116,780 \\ 14,488 \end{array}$ | $\begin{array}{r} 157,452 \\ 16,664 \end{array}$ |
| Total ... | 23,463 | 94,432 | 117,895 | 19,385 | 36,836 | 56,221 | 42,848 | 131,268 | 174,116 |

Printing and Bookbinding Trades-continued.
(a) Private Firms and Companies-continued.

TABLE IV.-CAPACITY OF ENGINES OWNED AND AMOUNT OF ELECTRICITY PURCHASED
a.-Capacity of Engines Owned, compared with Gross Value of Output and Number of Persons Employed.

|  |  | $\begin{gathered} \text { Number } \\ \text { of Persons } \\ \text { Employed. } \end{gathered}$ | $\begin{gathered} \text { Total } \\ \text { Capaatity of } \\ \text { Engines. } \end{gathered}$ | $\begin{gathered} \text { Gross Value } \\ \text { of } \\ \text { Output. } \end{gathered}$ | Number of Persons Employed | $\begin{aligned} & \text { Total } \\ & \text { Capacity of } \\ & \text { Engines. } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | England and Wales. |  |  | Scotland. |  |  |
| Factories with their own Engines ... <br> Factories renting their Power Workshops (not using Power) | £ |  | Horse- | £ |  | Horse- |
|  | 20,379,000 | 137,290 | 33,977 | 2,734,000 | 21,254 | 3,207: |
|  | 86,000 744,000 | 642 7,464 | 二 | 8,000 37,000 | 97 466 | - |
| Total ... ... ... | 21,209,000 | 145,396 | 33,977 | 2,779,000 | 21,817 | 3,207 |
|  | Ireland. |  |  | United Kingdom. |  |  |
|  | £ |  | Horse- | £ |  | Horse- |
|  | 695,000 | 6,592 | 1,427 | 23,808,000 | 165,136 | 38,611 |
| Factories with their own Engines <br> Factories renting their Power Workshops (not using Power) | 9,000 | 96 |  | 103,000 | 835 | - |
|  | 17,000 | 215 | - | 798,000 | 8,145 |  |
| Total | 721,000 | 6,903 | 1,427 | 24,709,000 | 174,116 | 38,611 |


c.-Amount of Electricity Purchased.

Note.-The figures in this Table are given to the nearest thousand in each case.
$\left.\begin{array}{c|c|c|c|c}\hline & & \begin{array}{c}\text { England and } \\ \text { Wales. }\end{array} & \text { Scotland. } & \text { Ireland. }\end{array} \begin{array}{c}\text { United } \\ \text { Kingdom. }\end{array}\right]$

Printing and Bookbinding Trades-continued.
(b) Government Defartments:
1.-General Post Office, Savinge Bank Department. TABLE I.-OUTPUT.


TABLE II.-COST OF MATERIALS USED AND AMOUNT PAID TO OTHER FIRMS FOR WORK GIVEN OUT TO THEM, SHOWN IN RELATION to value of output.


TABLE III.-PERSONS EMPLOYED.
Average Numbers at Work on the last Wednesdays in April, July, and October, 1907, and January, 1908.


TABLE IV.-AMOUNT OF ELECTRICITY PURCHASED.

|  |  | - |  |  |  | England. |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | Board of Trade <br> Units. <br> 20,000 |

Printing and Bookbinding Trades-continued.
(b) Government Departuents-continued:
2.-Ordnance Survey Department.

TABLE I.-OUTPUT.

| - | England. |
| :---: | :---: |
| Maps, \&c., made for sale ... ... ... ... | $\stackrel{£}{63,470}$ |
| Work Done for other Government Departments ... ... | 13,200 |
| total Value ... ... ... | 76,670 |

table II.-COST OF MATERIALS USED, SHOWN IN RELATION TO VALUE OF OUTPUT.

| - |  | England. |
| :---: | :---: | :---: |
| Cost of Materials Used I. |  | $\underset{12,762}{\text { ¢ }}$ |
| Value of Output ... II.. | ... | 76,670 |
| Value of Output less Cost of Materials Used |  | 63,908 |

TABLE III.-PERSONS EMPLOYED.
Average Numbers at Work on the last Wednesdays in April, July, and October, 1907, and Januart, 1908.

| - | Males. |  |  | Females, |  |  | Males and Females. |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Under } \\ \text { Th fearr } \\ \text { of age. } \end{gathered}$ | $\begin{gathered} \text { over } \\ \text { over } \\ \text { of fagrs } \end{gathered}$ | Total. | $\left\lvert\, \begin{gathered} \text { Under } \\ \text { Un } \\ \text { of aears } \end{gathered}\right.$ | $\begin{gathered} \text { over } \\ \text { overs } \\ \text { of tage. } \end{gathered}$ | Total. |  |  | Total. |
| England :-Wage-earners | 25 | 243 | 268 | 5 | 87 | 92 | 30 | 330 | 360 |
| Salaried Persons | 1 | 72 | 73 | - | - | - | 1 | 72 | 73 |
| Total | 26 | 315 | 341 | 5 | 87 | 92 | 31 | 402 | 433 |

TABLE IV.-AMOUNT OF ELECTRICITY PURCHASED.


PRINTING AND PUBLISHING OF NEWSPAPERS AND OTHER PERIODICALS.

TABLE I.-OUTPUT.
Note.-The figures in this Table are given to the nearest thousand in each case. Amounts lower
than five hundred are not shown.

|  | England and $\begin{gathered}\text { Wales. }\end{gathered}$ | Scotland. | Ireland. | United $\begin{gathered}\text { Unindom. }\end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| Newspapers :Daily ... Other than Daily (including Trade Journals). | $\begin{gathered} f \\ 5,917,000 \\ 3,265,000 \end{gathered}$ | $\begin{gathered} £ \\ 818,000 \\ 357,000 \end{gathered}$ | $\begin{gathered} f \\ 358,000 \\ 132,000 \end{gathered}$ | $\begin{gathered} f \\ 7,093,000 \\ 3,754,000 \end{gathered}$ |
| Total-Newspapers | 9,182,000 | 1,175,000 | 490,000 | 10,847,000 |
| Magazines and other Periodicals (published at least quarterly). | 652,000 | 110,000 | 10,000 | 772,000 |
| Job and General Printing ... ... ... | 1,202,000 | 135,000 | 81,000 | 1,418,000 |
| Stereotying and Electrotyping ... $\ldots$...... | $\begin{aligned} & 13,000 \\ & 19,000 \end{aligned}$ | $\overline{1}, 000$ | 5,000 | 13,000 |
| Other Work Done (Bookbinding, Engraving, \&c.). |  | 1,000 | 5,000 | 25,000 |
| Production of Printed Books (Printing and | 307,000 | 11,000 | 2,000 | 320,000 |
| Manufactured Stationery | 5,000 |  | 17,000 | 22,000 |
| Waste Products ... ... ... ... | 118,000 | 10,000 | 3,000 | 131,000 |
| Total Value of Goods Made and Work Done. | 11,498,000 | 1,442,000 | 608,000 | 13,548,000 |

TABLE II.-COST OF MATERIALS USED AND AMOUNT PAID TO OTHER FIRMS FOR WORK GIVEN OUT TO THEM, SHOWN IN RELATION TO VALUE OF OUTPUT.

Note.-The figures in this Table are given to the nearest thousand in each case.

| - | ${ }_{\text {England and }}^{\text {Wales. }}$ | Scotland. | Ireland. | United Kingdom |
| :---: | :---: | :---: | :---: | :---: |
| Cost of Materials Used ${ }^{1 .}$ Amount Paid to Other Firms for Work Given Out to them. | $\begin{gathered} £ \\ 3,894,000 \\ 181,000 \end{gathered}$ | $\stackrel{\substack{£ \\ 423,000 \\ 4,000}}{ }$ | $\begin{array}{r} f \\ 177,000 \\ 2,000 \end{array}$ | $\stackrel{\substack{f \\ 4,494,000 \\ 187,000}}{ }$ |
| Total | 4,075,000 | 427,000 | 179,000 | 4,681,000 |
| Value of Ouiput ... II. ... ... | 11,498,000 | 1,442,000 | 608,000 | 13,548,000 |
| III. <br> Value of Output less Cost of Materials Used and Amount Paid to other Firms for Work Given Out to them. | 7,423,000 | 1,015,000 | 429,000 | 8,867,000 |

Printing and Publishing of Newspapers and other Periodicals continued.

TABLE III.-PERSONS EMPLOYED
Average Numbers at Work on the last Wednesdays in January, April,

|  | Males. |  |  | Females. |  |  | Males and Females. |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{array}{\|c\|} \hline \text { Under } \\ \text { 18 years } \\ \text { of age. } \end{array}$ | $\begin{gathered} \text { Over } \\ 18 \text { years } \\ \text { of age. } \end{gathered}$ | Total. | $\begin{gathered} \text { Under } \\ 18 \text { years } \\ \text { of age. } \end{gathered}$ | $\begin{gathered} \text { Over } \\ 18 \text { years } \\ \text { of age. } \end{gathered}$ | Total. | Under 18 years of age. | $\begin{gathered} \text { Over } \\ \text { 18 years } \\ \text { of age. } \end{gathered}$ | Total. |
| England and Wales :-Wage-earners Salaried Persons | $\begin{aligned} & 4,041 \\ & 1,092 \end{aligned}$ | $\begin{array}{r} 21,901 \\ 8,682 \end{array}$ | $\begin{array}{r} 25,942 \\ 9,774 \end{array}$ | $\begin{aligned} & 736 \\ & 110 \end{aligned}$ | $\begin{array}{r} 1,515 \\ 613 \end{array}$ | $\begin{array}{r} 2,251 \\ 723 \end{array}$ | $\begin{aligned} & 4,777 \\ & 1,202 \end{aligned}$ | $\begin{array}{r} 23,416 \\ 9,295 \end{array}$ | $\begin{aligned} & 28,193 \\ & 10,497 \end{aligned}$ |
| Total | 5,133 | 30,583 | 35,716 | 846 | 2,128 | 2,974 | 5,979 | 32,711 | 38,690 |
| SCOTLAND:-Wage-earners Salaried Persons | $\begin{array}{r} 501 \\ 79 \end{array}$ | $\begin{array}{r} 2,743 \\ 978 \end{array}$ | $\begin{aligned} & 3,244 \\ & 1,057 \end{aligned}$ | 105 40 | $\begin{aligned} & 314 \\ & 194 \end{aligned}$ | $\begin{aligned} & 419 \\ & 234 \end{aligned}$ | $\begin{aligned} & 606 \\ & 119 \end{aligned}$ | $\begin{aligned} & 3,057 \\ & 1,172 \end{aligned}$ | $\begin{aligned} & 3,663 \\ & 1,291 \end{aligned}$ |
| Total | 580 | 3,721 | 4,301 | 145 | 508 | 653 | 725 | 4,229 | 4,954 |
| $\begin{array}{ll}\text { IRELAND }:- \\ \text { Wage-earners } & \\ \text { Salaried Persons } & \ldots \\ \end{array}$ | $\begin{array}{r} 315 \\ 45 \end{array}$ | $\begin{array}{r} 1,825 \\ 663 \end{array}$ | $2,140$ | 51 7 | 163 73 | 214 80 | $\begin{array}{r} 366 \\ 52 \end{array}$ | $\begin{array}{r} 1,988 \\ 736 \end{array}$ | $\begin{array}{r} 2,354 \\ 788 \end{array}$ |
| Total | 360 | 2,488 | 2,848 | 58 | 236 | 294 | 418 | 2,724 | 3,142 |
| United Kingdom:- <br> Wage-earners <br> Salaried Persons | $\begin{aligned} & 4,857 \\ & 1,216 \end{aligned}$ | $\begin{aligned} & 26,469 \\ & 10,323 \end{aligned}$ | $\begin{aligned} & 31,326 \\ & 11,539 \end{aligned}$ | $\begin{aligned} & 892 \\ & 157 \end{aligned}$ | $\begin{array}{r} 1,992 \\ 880 \end{array}$ | $\begin{aligned} & 2,884 \\ & 1,037 \end{aligned}$ | $\begin{aligned} & 5,749 \\ & 1,373 \end{aligned}$ | $\begin{aligned} & 28,461 \\ & 11,203 \end{aligned}$ | $\begin{aligned} & 34,210 \\ & 12,576 \end{aligned}$ |
| Total | 6,073 | 36,792 | 42,865 | 1,049 | 2,872 | 3,921 | 7,122 | 39,664 | 46,786 |

TABLE IV.-CAPACITY OF ENGINES OWNED AND AMOUNT OF ELECTRICITY PURCHASED.
a.-Capacity of Engines Owned, compared with Gross Value of Output and Number of Persons Employed.
Note.-The Gross Value of Output in this Table is given to the nearest thousand pounds.

|  | $\begin{array}{\|c\|} \hline \text { Gross Value } \\ \text { of } \\ \text { output. } \end{array}$ | Number of Persons Employed. | $\begin{gathered} \text { Total } \\ \text { Capacity of } \\ \text { Engines. } \end{gathered}$ | $\begin{gathered} \text { Gross Value } \\ \text { of of } \\ \text { Output. } \end{gathered}$ | Number of Persons Employed. | $\begin{gathered} \text { Total } \\ \text { Capacity of } \\ \text { Engines. } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Evgland and Wales. |  |  | Scotland. |  |  |
| Factories with their own Engines ... <br> Factories renting their Power ... <br> Workshops (not using Power) | $\begin{array}{\|c} £ \\ 11,446,000 \\ 52,000 \end{array}$ | $\begin{array}{r} 38,449 \\ 241 \end{array}$ | HorsePower. 13,148 - | $\begin{gathered} £ \\ 1,437,000 \\ 2,000 \\ 3,000 \end{gathered}$ | $\begin{array}{r} 4,926 \\ 14 \\ 14 \end{array}$ | HorsePower. 2,052 $\qquad$ |
| Total ... ... | 11,498,000 | 38,690 | 13,148 | 1,442,000 | 4,954 | 2,052 |
|  | Ireland. |  |  | United Kingdom. |  |  |
| Factories with their own Engines Factories renting their Power Workshops (not using Power) | $\begin{gathered} £ \\ 604,000 \\ \overline{4,000} \end{gathered}$ | $\mathbf{- 0}_{51}$ | Horse- <br> Power. 1,165 $\qquad$ | $\begin{array}{r} £ \\ 13,487,000 \\ 2,000 \\ 59,000 \end{array}$ | $\begin{array}{r} 46,466 \\ 14 \\ 306 \end{array}$ | HorsePower. 16,365 $\qquad$ |
| Total ... ... | 608,000 | 3,142 | 1,165 | 13,548,000 | 46,786 | 16,365 |

Printing and Publishing of Newspapers and other Periodicals-continued.

TABLE IV.-CAPACITY OF ENGINES OWNED AND AMOUNT OF ELECTRICITY PURCHASED - continued.
b. -Type and Capacity of Engines and Capacity of Dynamos.

| - | $\begin{aligned} & \text { England and } \\ & \text { Wales. } \end{aligned}$ | Scotland. | Ireland. | United |
| :---: | :---: | :---: | :---: | :---: |
| Steam Engines, Reciprocating Steam Turbines <br> Internal Combustion Engines Water Power | $\begin{gathered} \text { Horse-Power. } \\ 6,021 \\ 10 \\ 7,107 \\ 10 \end{gathered}$ | Horse-Power $\frac{885}{1,166}$ | Horse-Power <br> 122 <br> 1,043 | $\begin{gathered} \text { Horse-Po wer. } \\ 7,028 \\ 10 \\ 9,316 \\ 11 \end{gathered}$ |
| Total | 13,148 | 2,052 | 1,165 | 16,365 |
| Capacity of Dynamos driven by:Steam Engines, Reciprocating .. Other Power | $\begin{gathered} \text { Kilowatts. } \\ 631 \\ 1,301 \end{gathered}$ | $\begin{gathered} \text { Kilowatts. } \\ 166 \\ 122 \end{gathered}$ | Kilowatts. 32 75 | $\begin{gathered} \text { Kilowatts. } \\ 829 \\ 1,498 \end{gathered}$ |
| Total | 1,932 | 288 | 107 | 2,327 |

c.-Amount of Electricity Purchased.

Note.-The figures in this Table are given to the nearest thousand in each case.

| - | $\underset{\substack{\text { England and } \\ \text { Wales. }}}{\text {. }}$ | Scotland. | Ireland. | United Kingdom |
| :---: | :---: | :---: | :---: | :---: |
| Amount of Electricity Purchased | Board of Trade Units. 8,377,000 | Board of Trade Units. 7,885,000 | $\begin{gathered} \text { Board of Trade } \\ \text { Units. } \\ 278,000 \end{gathered}$ | $\begin{gathered} \text { Board of Trade } \\ \text { Units. } \\ 16,540,000 \end{gathered}$ |

## TYPEFOUNDING, STEREOTYPING, ENGRAVING, AND

 DIE-SINKING TRADES.TABLE I.-OUTPUT
Note.-The figures of quantity in this Table are given to the nearest hundred, and those of value to


|  | England and <br> Wales and Ireland.* | Sootland. | Unitad Kingdom. |
| :---: | :---: | :---: | :---: |
| Printing Type | Quantity. |  |  |
|  | $\stackrel{\text { Tons. }}{\dagger}$ | $\stackrel{\text { Tons. }}{\dagger}$ | $\underset{\substack{\text { Tons. } \\ 2,300}}{ }$ |
|  | Value. |  |  |
|  | $\pm$ | $\stackrel{\text { \& }}{+}$ | $\stackrel{\text { f }}{\text { 285,000 }}$ |
|  | + | $\pm$ | 78,000 89,000 |
|  |  |  |  |
| Engraving of Blocks, Plates, \&c. :- <br> Wteel and Copper Blocks (Relief Work) <br> Wood Blocks (Relief Work) Process Blocks (Relief Work) |  |  | $\begin{array}{r} 38,000 \\ 33,000 \\ 202,000 \end{array}$ |
| Total-Engraving of Blocks, Plates, \&c. | 244,000 | 29,000 | 273,000 |
| General Engraving on Gold and Silver Goods, Jewellery, | 44,000 | 7,000 | 51,000 |
|  | 22,000 11,000 | 1,000 | $\begin{aligned} & 23,000 \\ & 11,000 \end{aligned}$ |
| Engraving Roblers for Calico Printers, Wall Paper Manu- |  |  |  |
| Die-sinking | 34,000 30,000 | 5,000 2,000 | 32,000 39,000 |
|  | 15,000 |  | 15,000 |
| Metal Stamps, Marks, and Stencils ... ... ... |  | 1,000 |  |
| Rubber Stamps and Acessories Other Products and Work Done | $\begin{aligned} & 19,000 \\ & 31,000 \end{aligned}$ |  | $\begin{aligned} & 19,000 \\ & 39,000 \end{aligned}$ |
| Total Value of Goods Made and Work Done. | 847,000 | 123,000 | 970,000 |

TABLE II.-COST OF MATERIALS USED, SHOWN IN RELATION TO VALUE OF OUTPUT.
Note.-The figures in this Table are given to the nearest thousand in each case.


* The figures for England and Wales and for Ireland have been combined in order to avoid the possible disclosure of
partioulars relating to the few firms in Ireland. $\dagger$ In order to aroid the possible disclosure of particulars relating to certain firms, figures oan only be shown for the

Typefounding, Stereotyping, Engraving, and Die-sinking Trades-continued.
TABLE III.-PERSONS EMPLOYED.
Average Numbers at Work on the last Wednesdays in January, April, . July, and October.
Note.-These figures include (a) the average number of persons at work on the last Wednesdays in January, April, July, and October in establishments where power is used; and (b) the number

 

TABLE IV.-CAPACITY OF ENGINES OWNED AND AMOUNT OF ELECTRICITY PURCHASED.
A.-Capacity of Engines Uwned, compared with Gross Value of Output and Number of Persons Employed.

*The figures for England and Wales and for Ireland have been combined in order to avoid the possible disclosure of
particulars relating to the few frms in Ireland.

Typefounding, Stereotyping, Engraving, and Die-sinking Trades-continued.
TABLE IV.-CAPACITY OF ENGINES OWNED AND AMOUNT OF ELECTRICITY PURCHASED - continued.
b. -Type and Capacity of Engines and Capacity of Dynamos.

|  |  | England and Wales and Ireland. | Scoutland. | United Kingdom, |
| :---: | :---: | :---: | :---: | :---: |
| Steam Engines, Reciprocating ... <br> Internal Combustion Engines (gas, oil, \&c.) ... | $\ldots$ | $\begin{gathered} \text { Horse-Power. } \\ 64 \\ 487 \end{gathered}$ | $\begin{gathered} \text { Horse-Power. } \\ 116 \\ 13 \end{gathered}$ | $\begin{gathered} \text { Horse-Power. } \\ 180 \\ 500 \end{gathered}$ |
| Total ... ... ... | ... | 551 | 129 | 680 |
| Capacity of Dynamos driven by $\qquad$ Engines other than Steam Engines Power | ... | Kilowatts. 33 | Kilowatts. | Kilowatts. <br> 33 |

c.-Amount of Electricity Purchased

Note.-The figures in this Table are given to the nearest thousand in each case.

|  |  | $\underset{\text { Engles }}{\text { England and }}$ and Ireland.* | Scotland. | United <br> Kingdom. |
| :---: | :---: | :---: | :---: | :---: |
| Amount of Electricity Purchased | ... | $\begin{gathered} \text { Board of Trade } \\ \text { Units. } \\ 670,000 \end{gathered}$ | $\begin{array}{\|c} \text { Board of Trade } \\ \text { Units. } \\ 29,000 \end{array}$ | $\begin{gathered} \text { Board of Trade } \\ \text { Units. } \\ 699,000 \end{gathered}$ |

* The figures for England and Wales and for Ireland have been combined in order to avoid the possible disclosure of particulars relauting to the few firms in Ireland.


## MANUFACTURED STATIONERY TRADE.

(a) Private Firms and Companies

TABLE I.-OUTPUT.
Note.-The figures in this Table are given to the nearest thousand in each case. Amounts lower than five hundred are not shown.

|  |  |  | England and <br> Wales. | Scotland. | Ireland, |
| :--- | :--- | :---: | :---: | :---: | :---: |

TABLE II.-COST OF MATERIALS USED AND AMOUNT PAID TO OTHER FIRMS FOR WORK GIVEN OUT TO THEM, SHOWN IN RELATION TO VALUE OF OUTPUT.

Note.-The figures in this Table are given to the nearest thousand in each case.

| - | $\underset{\text { Wales. }}{\text { England and }}$ | Scotland. | Ireland. | United Kingdom. |
| :---: | :---: | :---: | :---: | :---: |
| Cost of Materials Used I. <br> Amount Paid to Other Firms for Work Given Out to them. | $\begin{gathered} £ \\ 1,956,000 \\ 82,000 \end{gathered}$ | $\begin{gathered} f \\ 336,000 \\ 12,000 \end{gathered}$ | $\begin{gathered} f \\ 50,000 \\ 1,000 \end{gathered}$ | $\begin{gathered} £ \\ 2,342,000 \\ 95,000 \end{gathered}$ |
| Total | 20038,000 | 348,000 | 51,000 | 2,437,000 |
| Value of Output ... | 3,720,000 | 601,000 | 93,000 | 4,414,000 |
| Value of Output less Cost of Materials Used and Amount Paid to Other Firms for Work Given Out to them. | 1,682,000 | 253,000 | 42,000 | 1,977,000 |

Manufactured Stationery Trade-continued
(a) Private Firms and Companies-continued.
TABLE III.-PERSONS EMPLOYED.
a.-Average Number of Persons (except Outworkers) at Work on the last Wednesdays in January, April, July, and October.

Note.-These figures include (a) the average number of persons at work on the last Wednesdays in January, April, July, and October in establishments where power is used; and (b) the numbers January, April, July, and October in establishments where power
"ordinarily" employed in establishments where no power is used.

|  | Males. |  |  | Females. |  |  | Males and Fsmales. |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Under } \\ 18 \text { years } \\ \text { of age. } \end{gathered}$ | $\begin{gathered} \text { Over } \\ 18 \text { years } \\ \text { of age. } \end{gathered}$ | Total. | Under 18 years of age. | $\begin{gathered} \text { Over } \\ \text { 18 years } \\ \text { of age. } \end{gathered}$ | Total. | $\begin{gathered} \text { Under } \\ \text { 18 years } \\ \text { of age. } \end{gathered}$ | $\begin{gathered} \text { Over } \\ 18 \text { years } \\ \text { of age. } \end{gathered}$ | Total. |
| England and Wales: <br> Wage-earners <br> Salaried Persons | 1,552 296 | 5,477 1,841 | $\begin{aligned} & 7,029 \\ & 2,137 \end{aligned}$ | $\begin{array}{r}3,659 \\ 140 \\ \hline\end{array}$ | 7,878 450 | $\begin{array}{r} 11,537 \\ 590 \end{array}$ | $\begin{array}{r} 5,211 \\ 436 \end{array}$ | $\begin{gathered} 13,355 \\ 2,291 \end{gathered}$ | $\begin{array}{r} 18,566 \\ 2,727 \end{array}$ |
| Total | 1,848 | 7,318 | 9,166 | 3,799 | 8,328 | 12,127 | 5,647 | 15,646 | 21,293 |
| Scotland :-Wage-earners Salaried Persons | $\begin{gathered} 124 \\ 16 \end{gathered}$ | 748 215 | $\begin{aligned} & 872 \\ & 231 \end{aligned}$ | 946 16 | $\begin{array}{r} 1,887 \\ 76 \end{array}$ | $\begin{array}{r} 2,833 \\ 92 \end{array}$ | 1,070 32 | $\begin{array}{r} 2,635 \\ 291 \end{array}$ | 3,705 323 |
| Total | 140 | 963 | 1,103 | 962 | 1,963 | 2,925 | 1,102 | 2,926 | 4,028 |
| Ireland :- <br> Wage-earners <br> Salaried Persons | $\begin{aligned} & 43 \\ & 12 \end{aligned}$ | $\begin{array}{r} 154 \\ 66 \end{array}$ | $\begin{array}{r} 197 \\ 78 \end{array}$ | 129 6 | $\begin{array}{r} 469 \\ 27 \end{array}$ | $\begin{array}{r} 598 \\ 33 \end{array}$ | $\begin{array}{r} 172 \\ 18 \end{array}$ | $\begin{array}{r} 623 \\ 93 \end{array}$ | $\begin{aligned} & 795 \\ & 111 \end{aligned}$ |
| Total | 55 | 220 | 275 | 135 | 496 | 631 | 190 | 716 | 906 |
| United Kingdom :- <br> Wage-earners <br> Salaried Persons | $\begin{array}{r} 1,719 \\ 324 \end{array}$ | $\begin{aligned} & 6,379 \\ & 2,122 \end{aligned}$ | $\begin{aligned} & 8,098 \\ & 2,446 \end{aligned}$ | $\begin{array}{r} 4,734 \\ 162 \end{array}$ | $\begin{array}{r} 10,234 \\ 553 \end{array}$ | $\begin{array}{r} 14,968 \\ 715 \end{array}$ | $\begin{array}{r} 6,453 \\ 486 \end{array}$ | $\begin{array}{r} 16,613 \\ 2,675 \end{array}$ | $\begin{gathered} 23,066 \\ 3,161 \end{gathered}$ |
| Total ... | 2,043 | 8,501 | 10,544 | 4,896 | 10,787 | 15,683 | 6,939 | 19,288 | 26,227 |

b.-Average Number of Outworkers on 1st February and 1st August, 1907.

|  |  |  |  |  |  |  |  | Males. | Females. |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | | Males and |
| :--- |
| Females. |

## Manufactured Stationery Trade-continued.

(a) Pritate Firms and Companies-continued.

TABLE IV.-CAPACITY OF ENGINES OWNED AND AMOUNT OF ELECTRICITY PURCHASED.
a.-Capacity of Engines Owned, compared with Gross Value of Output and Number of Persons Employed.
Note.-The Gross Value of Output in this Table is given to the nearest thousand pounds.

|  | $\underset{\substack{\text { Gross } \\ \text { ovalue } \\ \text { output. }}}{ }$ | $\substack{\text { Number } \\ \text { of merons } \\ \text { Emploseded. }}$ | $\begin{gathered} \text { Cotalaly } \\ \text { Cof of } \\ \text { Figsinges } \end{gathered}$ | $\left\lvert\, \begin{gathered} \text { Gross Value } \\ \text { output. } \end{gathered}\right.$ |  | $\begin{gathered} \text { Capatal } \\ \text { Capaity of } \\ \text { Enginines. } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | England and Wales. |  |  | Scotland. |  |  |
| Factories with their own Engines <br> Factories renting their Power <br> Workshops (not using Power) | $\begin{gathered} £ \\ 3,318,000 \\ 47,000 \\ 355,000 \end{gathered}$ | $\begin{array}{r} 17,950 \\ 436 \\ 2,907 \end{array}$ | $\begin{gathered} \text { Horse- } \\ \text { Power. } \\ 2,998 \\ - \end{gathered}$ | $\begin{gathered} \mathfrak{£} \\ 533,000 \\ 69,000 \end{gathered}$ | $\begin{array}{r}3,454 \\ \hline 574 \\ \hline\end{array}$ | HorsePower. - |
| Total | 3,720,000 | 21,293 | 2,998 | 601,000 | 4,028 | 544 |
|  | Ireland. |  |  | United Kingdom. |  |  |
| Factories with their own Engines <br> Factories renting their Power <br> Workshops (not using Power) | $\begin{gathered} £ \\ 84,000 \\ \hline 9,000 \end{gathered}$ | $\begin{array}{r} 825 \\ -81 \end{array}$ | HorsePower. $-78$ | $\begin{array}{\|c} £ \\ 3,934,000 \\ 47,000 \\ 433,000 \end{array}$ | $\begin{array}{r} 22,299 \\ 4,56 \\ 3,62 \end{array}$ | $\begin{gathered} \text { Horse- } \\ \text { Power. } \\ 3,620 \\ - \end{gathered}$ |
| Total | 93,000 | 906 | 78 | 4,414,000 | 26,227 | 3,620 |

b.-Type and Capacity of Engines and Capacity of Dynamos.

| - | England and | Scootland. | Ireland. | ( $\begin{gathered}\text { United } \\ \text { Kingdom. }\end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| Steam Engines, Reciprocating <br> Internal Combustion Engines (gas, oil, \&c.) | $\begin{gathered} \text { Horse-Power. } \\ 704 \\ 2,195 \end{gathered}$ | $\begin{gathered} \text { Horse-Power. } \\ 407 \\ 127 \end{gathered}$ | Horse-Power. 78 | $\begin{gathered} \text { Horse-Power. } \\ 1,111 \\ 2,400 \end{gathered}$ |
| Water Power ... .. | 99 | 10 | - | 109 |
| Total | 2,998 | 544 | 78 | 3,620 |
| Capacity of Dynamos driven by :Steam Engines, Reciprocating . Other Power | Kilowatts. 101 263 | Kilowatts. — | Kilowatts. <br> 二 | Kilowatts. 101 263 |
| Total | 364 | - | - | 364 |

c.-Amount of Electricity Purchased.


Manufactured Stationery Trade-continued.
(b) General Post Office, Savings Bank Department.

TABLE I.-OUTPUT.


TABLE II.-COST OF MATERIALS USED, SHOWN IN RELATION TO VALUE OF OUTPUT.

| - |  | England. |  |
| :---: | :---: | :---: | :---: |
| Cost of Materials Used I. | ... | $\stackrel{\stackrel{\text { ¢ }}{1,431}}{ }$ |  |
| Value of Output ... II. |  | 2,155 |  |
| Value of Outpat less Cost of Materials Used | ... | 724 |  |

TABLE III.-PERSONS EMPLOYED.
Average. Numbers at Work on the last Wednesdays in April, July, and October, 1907, and January, 1908.


TABLE IV.-AMOUNT OF ELECTRICITY PURCHASED.

|  | - | England. |  |
| :---: | :---: | :---: | :---: |
|  | Amount of Electricity Purchased ... ... ... ... | $\begin{gathered} \text { Board of Trade } \\ \text { Units. } \\ 4,000 \end{gathered}$ |  |

## CARDBOARD BOX TRADE.

TABLE I.-OUTPUT.
Note.-The figures in this Table are given to the nearest thousand in each case. Amounts lower than five hundred are not shown.

| - | $\begin{aligned} & \text { England and } \\ & \text { Wales. } \end{aligned}$ | Scotland. | Ireland. | United Kingdom, |
| :---: | :---: | :---: | :---: | :---: |
| Plain and Fancy Cardboard Boxes :Rigid ... <br> Folding <br> Not separately distinguished | $\begin{aligned} & £ \\ & \stackrel{y}{*} \end{aligned}$ | £ | $£$ | 1,189,000 271,000 607,000 |
| Total-Cardboard Boxes | 1,893,000 | 103,000 | 71,000 | 2,067,000 |
| Boxes of Cardboard and Wood Other Articles of Cardboard Manufactured Stationery and Printing Other Products $\qquad$ | $\begin{array}{r} 11,000 \\ 19,000 \\ 16,000 \\ 8,000 \end{array}$ | $\begin{aligned} & \overline{1,000} \\ & 1,000 \end{aligned}$ | $\begin{aligned} & \overline{3}, 000 \\ & 1,000 \end{aligned}$ | $\begin{aligned} & 11,000 \\ & 19,000 \\ & 20,000 \\ & 10,000 \end{aligned}$ |
| Total Value of Goods Made | 1,947,000 | 105,000 | 75,000 | 2,127,000 |
| Amount Received for Work Done for the Trade. | 2,000 | - | - | 2,000 |
| Total Value of Goods Made and Work Done. | 1,949,000 | 105,000 | 75,000 | 2,129,000 |

TABLE II.-COST OF MATERIALS USED AND AMOUNT PAID TO OTHER FIRMS FOR WORK GIVEN OUT TO THEM, SHOWN IN RELATION TO VALUE OF OUTPUT.

Note.-The figures in this Table are given to the nearest thousand in each case. Amounts lower than five hundred are not shown.

|  | $\underset{\text { Wales. }}{\text { England and }}$ | Scotland. | Ireland. | United $\begin{gathered}\text { Und } \\ \text { Kingdom. }\end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| Cost of Materials I. <br> Amount Paid to Other Firms for Work Given Out to them. | $\begin{gathered} £ \\ 915,000 \\ 12,000 \end{gathered}$ | $\begin{gathered} £ \\ 50,000 \\ 1,000 \end{gathered}$ | $\begin{gathered} f \\ 37,000 \\ - \end{gathered}$ | $\begin{array}{r} £ \\ 1,002,000 \\ 13,000 \end{array}$ |
| Total | 927,000 | 51,000 | 37,000 | 1,015,000 |
| II. <br> Value of Oatput:Goods Made for Sale Work Done for the Trade. | $\begin{array}{r} 1,947,000 \\ 2,000 \end{array}$ | 105,000 | 75,000 | $\begin{array}{r} 2,127,000 \\ 2,000 \end{array}$ |
| Total | 1,949,000 | 105,000 | 75,000 | 2,129,000 |
| III. <br> Value of Output less Cost of Materials Used and Amount Paid to Other Firms for Work Given Out to them. | 1,022,000 | 54,000 | 38,000 | 1,114,000 |

## Cardboard Box Trade-continued.

## TABLE III. - PERSONS EMPLOYED

a.-Average Number of Persons (except Outworkers) at Work on the last Wednesdays in January, April, July, and October.

Notw.-These figures include (a) the average number of persons at work on the last Wednesdays in January, April, July, and October in establishments where power is used; and (b) the number "ordinarily" employed in establishments where no power is used.

|  | Males. |  |  | Females. |  |  | Males and Females. |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Under } \\ & 18 \text { years } \\ & \text { of age. } \end{aligned}$ | $\begin{array}{\|c\|c\|} \hline \text { Over } \\ \text { 18 years } \\ \text { of age. } \end{array}$ | Total. | $\begin{gathered} \text { Under } \\ 18 \text { years } \\ \text { of age. } \end{gathered}$ | $\begin{gathered} \text { Over } \\ 18 \text { years } \\ \text { of age. } \end{gathered}$ | Total. | Under <br> 18 years <br> of age. | $\begin{gathered} \text { Over } \\ 18 \text { years } \\ \text { of age. } \end{gathered}$ | Total. |
| England and Wales:- <br> Wage-earners Salaried Persons | $\begin{aligned} & 859 \\ & 114 \end{aligned}$ | $\begin{array}{r} 2,603 \\ 813 \end{array}$ | $\begin{array}{r} 3,462 \\ 927 \end{array}$ | $\begin{array}{r} 4,539 \\ 132 \end{array}$ | $\begin{array}{r} 9,846 \\ 315 \end{array}$ | $\begin{array}{r} 14,385 \\ \hline 447 \end{array}$ | $\begin{array}{r} 5,398 \\ 246 \end{array}$ | $\begin{array}{r} 12,449 \\ 1,128 \end{array}$ | $\begin{array}{r} 17,847 \\ 1,374 \end{array}$ |
| Total | 973 | 3,416 | 4,389 | 4,671 | 10,161 | 14,832 | 5,644 | 13,577 | 19,221 |
| Scotland :-Wage-earners Salaried Persons | $\begin{array}{r} 35 \\ 1 \end{array}$ | $\begin{array}{r} 146 \\ 50 \end{array}$ | $\begin{array}{r} 181 \\ 51 \end{array}$ | $\begin{array}{r} 273 \\ 6 \end{array}$ | $\begin{array}{r} 664 \\ 31 \end{array}$ | $\begin{array}{r} 937 \\ 37 \end{array}$ | 308 7 | $\begin{array}{r} 810 \\ 81 \end{array}$ | $\begin{array}{r} 1,118 \\ 88 \end{array}$ |
| Total | 36 | 196 | 232 | 279 | 695 | 974 | 315 | 891 | 1,206 |
| Wage-earners Salaried Persons | $\begin{array}{r} 42 \\ 3 \end{array}$ | $\begin{array}{r} 130 \\ 37 \end{array}$ | $\begin{array}{r} 172 \\ 40 \end{array}$ | $\begin{array}{r} 176 \\ 7 \end{array}$ | $\begin{array}{r} 531 \\ 15 \end{array}$ | $\begin{array}{r} 707 \\ 22 \end{array}$ | $\begin{array}{r} 218 \\ 10 \end{array}$ | $\begin{array}{r} 661 \\ 52 \end{array}$ | $\begin{array}{r} 879 \\ 62 \end{array}$ |
| Total ... | 45 | 167 | 212 | 183 | 546 | 729 | 228 | 713 | 941 |
| United Kingdom :- <br> Wage-earners Salaried Persons | $\begin{aligned} & 936 \\ & 118 \end{aligned}$ | $\begin{array}{r} 2,879 \\ 900 \end{array}$ | $\begin{aligned} & 3,815 \\ & 1,018 \end{aligned}$ | $\begin{array}{r} 4,988 \\ 145 \end{array}$ | $\begin{array}{r} 11,041 \\ 361 \end{array}$ | $\begin{array}{r} 16,029 \\ 506 \end{array}$ | $\begin{array}{r} 5,924 \\ 263 \end{array}$ | $\begin{array}{r} 13,920 \\ 1,261 \end{array}$ | $\begin{array}{r} 19,844 \\ 1,524 \end{array}$ |
| Total ... | 1,054 | 3,779 | 4,833 | 5,133 | 11,402 | 16,535 | 6,187 | 15,181 | 21,368 |

b. - Average Number of Outworkers on 1st February and 1st August, 1907.

|  |  |  |  |  |  |  |  | Males. | Females. |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

## Cardboard Box Trade-continued.

TABLE IV.-CAPACITY OF ENGINES OWNED AND AMOUNT OF ELECTRICITY PURCHASED.
a.-Capacity of Engines owned, compared with Gross Value of Output and Number of Persons Employed
Note.-The Gross Value of Output in this Table is given to the nearest thousand pounds.

|  | $\begin{array}{\|c\|} \text { Gross Value } \\ \text { of } \\ \text { output. } \end{array}$ | Number of Persons Employed. | $\begin{gathered} \text { Total } \\ \text { Capacity of } \\ \text { Engines. } \end{gathered}$ | $\begin{gathered} \text { Gross Value } \\ \text { of } \\ \text { output. } \end{gathered}$ | $\begin{gathered} \text { Number } \\ \text { of Persons } \\ \text { Employed. } \end{gathered}$ | $\begin{gathered} \text { Total } \\ \text { Capacity of } \\ \text { Engines. } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | England and Wales. |  |  | Scotland. |  |  |
| Factories with their own Engines <br> Factories renting their Power <br> Workshops (not using Power) | $\begin{gathered} £ \\ 1,64,000 \\ 26,000 \\ 278,000 \end{gathered}$ | $\begin{array}{r} 15,741 \\ 259 \\ 3,221 \end{array}$ | Horse- <br> Power. 2,038 <br> — | $\begin{gathered} £ \\ 71,009 \\ \overline{34,000} \end{gathered}$ | 739 -467 | Horse- <br> Power. $145$ Z |
| Total ... | 1,949,000 | 19,221 | 2,038 | 105,000 | 1,206 | 145 |
|  | Ireland. |  |  | United Kingdom. |  |  |
| Factories with their own Engines <br> Factories renting their Power Workshops (not using Power) | $\begin{gathered} £ \\ 70,000 \\ \overline{5,000} \end{gathered}$ | $\begin{array}{r} 862 \\ -79 \end{array}$ | Horse- <br> Power. <br> 105 <br> — | $\begin{gathered} £ \\ 1,786,000 \\ 26,00 \\ 317,000 \end{gathered}$ | $\begin{array}{r} 17,342 \\ 259 \\ 3,767 \end{array}$ | HorsePower. 2,288 |
| Total ... | 75,000 | 941 | 105 | 2,129,000 | 21,368 | 2,288 |

b.-Type and Capacity of Engines and Capacity of Dynamos.

|  | $\begin{aligned} & \text { England and } \\ & \text { Wales. } \end{aligned}$ | Scotland. | Ireland. | United Kingdom. |
| :---: | :---: | :---: | :---: | :---: |
| Steam Engines, Reciprocating Internal Combustion Engines (gas, oil, \&c.), | $\begin{gathered} \text { Horse-Power. } \\ 366 \\ 1,666 \end{gathered}$ | $\begin{gathered} \text { Horse-Power. } \\ 88 \\ 57 \end{gathered}$ | $\begin{gathered} \text { Horse-Power. } \\ 26 \\ 72 \end{gathered}$ | $\begin{gathered} \text { Horse-Power. } \\ 480 \\ 1,795 \end{gathered}$ |
| Water Power Other Power | $-6$ | - | $-^{7}$ | $\begin{aligned} & 7 \\ & 6 \end{aligned}$ |
| Total | 2,038 | 145 | 105 | 2,288 |
| Capacity of Dynamos driven by :Steam Engines, Reciprocating ... Other Power | $\begin{gathered} \text { Kilowatts. } \\ 148 \\ 330 \end{gathered}$ | Kilowatts. | $\begin{gathered} \text { Kilowatts. } \\ 10 \\ 4 \end{gathered}$ | Kilowatts. 158 334 |
| Total | 478 | - | 14 | 492 |

C.-Amount of Electricity Purchased,

Note.-The figures in this Table are given to the nearest thousand in each case.

| - | England and | Scotland. | Ireland. | United <br> Kingdom |
| :---: | :---: | :---: | :---: | :---: |
| Amount of Electricity Purchased | Board of Trade Units. 477,000 | $\begin{array}{\|c\|} \hline \text { Board of Trade } \\ \text { Units. } \\ 33,000 \end{array}$ | $\begin{array}{\|c} \text { Board of Trade } \\ \text { Units. } \\ 33,000 \end{array}$ | Board of Trade Units. 543,000 |

PEN, PENCIL, AND ARTISTS' MATERIALS TRADES.
The Factories and Workshops covered by the following Tables are all situated in England.
TABLE I.-OUTPUT.
NoTE.-The figures in this Table are given to the nearest thousand in each case


Pen, Pencil, and Artists' Materials Trades-continued. TABLE III.-PERSONS EMPLOYED-continued.
b. - Average Number of Outworkers on 1st February and 1st August, 1907.

|  |  |  |  |  |  |  |  |  | Males. | Females. | Males and <br> Females. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ENGLAND $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | 2 | 21 | 23 |  |

TABLE IV.-CAPACITY OF ENGINES OWNED AND AMOUNT OF ELECTRICITY PURCHASED.
a.-Capacity of Engines Owned, compared with Gross Value of Output and Number of Persons Employed.
Note.-The Gross Value of Output in this Table is given to the nearest thousand pounds.

b.-Type and Capacity of Engines and Capacity of Dynamos.

| -. |  | England. |
| :---: | :---: | :---: |
| Steam Engines, Reciprocating <br> Internal Combustion Engines (gas, oil, \&c.) <br> Water Power |  | $\begin{gathered} \text { Horse-Power. } \\ 936 \\ 469 \\ 45 \end{gathered}$ |
| Total ... | $\ldots$ | 1,450 |
| Capacity of Dynamos driven by :Steam Engines, Reciprocating . Other Power | $\ldots$ | $\begin{gathered} \text { Kilowatts. } \\ 108 \\ 2 \end{gathered}$ |
| Total ... | ... | 110 |

c.-Amount of Electricity Purchased.

Note.-The figure in this Table is given to the nearest thousand.

| - | England. |
| :---: | :---: |
| Amount of Electricity Purchased ... ... ... ... | Board of Trade Units. 54,000 |

INK, GUM, AND SEALING WAX TRADES.

## TABLE I.-OUTPUT.

Note.-The figures in this Table are qiven to the nearest thousand in each case.


TABLE II.-COST OF MATERIALS USED, SHOWN IN RELATION TO VALUE OF OUTPUT.
NoTe.-The figures in this Table are given to the nearest thousand in each case.


TABLE III.-PERSONS EMPLOYED.
Average Numbers at Work on the last Wednesdays in January, April,
Note.-These figures include (a) the average number of persons at worlo on the last Wednesdays in Note.--These figures include (a) October in establishments where power is used; and (b) the number "ordinarily" employed in establishments where no power is used.

|  | Males. |  |  | Females. |  |  | Males and Females. |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Under 18 years of age. of age. | $\begin{gathered} \text { Over } \\ 18 \text { years } \\ \text { of age. } \end{gathered}$ | Total. | $\begin{gathered} \text { Under } \\ 18 \text { years } \\ \text { of age. } \end{gathered}$ | $\begin{aligned} & \text { Over } \\ & 18 \text { years } \\ & \text { of age. } \end{aligned}$ | Total. | $\begin{aligned} & \text { Under } \\ & 18 \text { years } \\ & \text { of age. } \end{aligned}$ | $\begin{aligned} & \text { Over } \\ & 18 \text { years } \\ & \text { of age. } \end{aligned}$ | Total. |
| England and Wales and Ireland*:- <br> Wage-earners... <br> Salaried Persons | $\begin{aligned} & 64 \\ & 22 \end{aligned}$ | $\begin{aligned} & 782 \\ & 341 \end{aligned}$ | $\begin{aligned} & 846 \\ & 363 \end{aligned}$ | $\begin{array}{r} 79 \\ 3 \end{array}$ | $\begin{array}{r} 113 \\ 36 \end{array}$ | $\begin{array}{r} 192 \\ 39 \end{array}$ | $\begin{array}{r} 143 \\ 25 \end{array}$ | $\begin{aligned} & 895 \\ & 377 \end{aligned}$ | $\begin{array}{r} 1,038 \\ 402 \end{array}$ |
| Total ... ... | 86 | 1,123 | 1,209 | 82 | 149 | 231 | 168 | 1,272 | 1,440 |
| $\begin{array}{ll} \text { SCoTLAND :- } & \\ \text { Wage-earners.. } & \ldots \\ \text { Salaried Persons } & \ldots \end{array}$ | $\begin{aligned} & 7 \\ & 1 \end{aligned}$ | $\begin{array}{r} 114 \\ 44 \end{array}$ | $\begin{array}{r} 121 \\ 45 \end{array}$ | 17 1 | $\begin{array}{r} 25 \\ 6 \end{array}$ | $\begin{array}{r} 42 \\ 7 \end{array}$ | $\begin{array}{r} 24 \\ 2 \end{array}$ | $\begin{array}{r} 139 \\ 50 \end{array}$ | 163 52 |
| Total ... | 8 | 158 | 166 | 18 | 31 | 49 | 26 | 189 | 215 |
| United Kingdom:-Wage-earners... Salaried Persons | $\begin{aligned} & 71 \\ & 23 \end{aligned}$ | $\begin{aligned} & 896 \\ & 385 \end{aligned}$ | $\begin{aligned} & 967 \\ & 408 \end{aligned}$ | $\begin{array}{r} 96 \\ 4 \end{array}$ | $\begin{array}{r} 138 \\ 42 \end{array}$ | $\begin{array}{r} 234 \\ 46 \end{array}$ | $\begin{array}{r} 167 \\ 27 \end{array}$ | $\begin{array}{r} 1,034 \\ 427 \end{array}$ | $\begin{array}{r} 1,201 \\ 454 \end{array}$ |
| Total ... | 94 | 1,281 | 1,375 | 100 | 180 | 280 | 194 | 1,461 | 1,655 |

[^1]the rest of the United Kingdom, the figures relating. to Ireland being combined wit
24678

Ink, Gum and Sealing Wax Trades-continued.
TABLE IV.-CAPACITY OF ENGINES OWNED AND AMOUNT OF ELECTRICITY PURCHASED.
a.-Capacity of Engines Owned, compared with Gross Value of Output and Number of Persons Employed.

Note.-The Gross Value of Output in this Table is given to the nearest thousand pounds.

|  | Gross of Output. | $\begin{gathered} \text { Number } \\ \text { of } \\ \text { Persons } \\ \text { Em } \\ \text { ploged. } \end{gathered}$ | $\begin{gathered} \text { Total } \\ \text { Capacity } \\ \text { of } \\ \text { Engines. } \end{gathered}$ | $\begin{gathered} \text { Gross } \\ \text { Value } \\ \text { of } \\ \text { Output. } \end{gathered}$ |  | $\begin{gathered} \text { Total } \\ \text { Capacity } \\ \text { of } \\ \text { Engines } \end{gathered}$ | Gross Value Output. | Number Persons $\underset{\text { Em- }}{\text { ployed. }}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | England and Wales and Ireland.* |  |  | Scotland. |  |  | United Kingdom. |  |  |
| Factories with their own Engines. | $\begin{gathered} £ \\ 701,000 \end{gathered}$ | 1,150 | $\begin{gathered} \text { Horse- } \\ \text { Power. } \\ 1,339 \end{gathered}$ | $\stackrel{£}{105,000}$ | 190 |  | $\begin{gathered} £ \\ 806,000 \end{gathered}$ | 1,340 | $\begin{gathered} \text { Horse- } \\ \text { Power. } \\ 2,125 \end{gathered}$ |
| Factories renting their Power. | 1,000 | 4 | - | - | - | - | 1,000 | 4 | - |
| Workshops(not using Power). | 76,000 | 286 | - | 5,000 | 25 | - | 81,000 | 311 | - |
| Total | 778,000 | 1,440 | 1,339 | 110,000 | 215 | 786 | 888,000 | 1,655 | 2,125 |

b, -Type and Capacity of Engines and Capacity of Dinamos.

c.-Amount of Electricity Purchased.

Note.-The figures in this Table are given to the nearest thousand in each case.


[^2]
## TRADE PHOTOGRAPHY.

TABLE I.-OUTPUT.
NoTm.-The figures in this Table are given to the nearest thousand in each case.


TABLE II.-COST OF MATERIALS USED, SHOWN IN RELATION TO THE VALUE OF OUTPUT.

Note.-The figures in this Table are given to the nearest thousand in each case.


## TABLE III.-PERSONS EMPLOYED

Average Numbers at Work on the last Wednesdays in January, April, July, and October.

Note.-These figures include (a) the average number of persons at work on the last Wednesdays in "January, April, July, and October in establishments where power is used; and (b) the numbers " ordinarily" employed in establishments where no power is used.

|  | Males. |  |  | Females. |  |  | Males and Females. |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| - | $\begin{aligned} & \text { Under } \\ & 18 \text { years } \\ & \text { of age. } \end{aligned}$ | $\begin{gathered} \text { Oyer } \\ 18 \text { years } \\ \text { of age. } \end{gathered}$ | Total. | Under <br> 18 years <br> of age. | $\begin{gathered} \text { Over } \\ 18 \text { years } \\ \text { of age. } \end{gathered}$ | Total. | Under 18 years of age. | $\begin{gathered} \text { Over } \\ \text { 18 years } \\ \text { of age. } \end{gathered}$ | Total. |
| Great Britain*:-Wage-earners .. Salaried Persons | $\begin{array}{r} 88 \\ 9 \end{array}$ | $\begin{aligned} & 372 \\ & 170 \end{aligned}$ | $\begin{aligned} & 460 \\ & 179 \end{aligned}$ | 49 6 | $\begin{array}{r} 263 \\ 54 \end{array}$ | $\begin{array}{r} 312 \\ 60 \end{array}$ | $\begin{array}{r} 137 \\ 15 \end{array}$ | $\begin{aligned} & 635 \\ & 224 \\ & 25 \end{aligned}$ | $\begin{aligned} & 772 \\ & 239 \end{aligned}$ |
| Total ... | 97 | 542 | 639 | 55 | 317 | 372 | 152 | 859 | 1,011 |

[^3]Trade Photography-continued.
TABLE IV.-CAPACITY OF ENGINES OWNED AND AMOUNT OF ELECTRICITY PURCHASED.
a.-Capacity of Engines Owned, compared with Gross Value of Output and Number of Persons Employed.

Note.-The Gross Value of Output in this Table is given to the nearest thousand pounds. .

b. -Type and Capacity of Engines and Capacity of Dynamos.

c.-Amount of Electricity Purchased.

Note.-The figure in this Table is given to the nearest thousand.


[^4]
[^0]:    Classed according to kinds of power, the particulars are :Steam Engines:-

    Horse-Power Reciprocating
    Steam Turbines
    3,470
    Total-Steam Engines ... ... ... 156,824
    Internal Combustion Engines (gas, oil, \&c.) ... ... 4,784 Water Power Other Power
    $\begin{array}{r}10,378 \\ 38 \\ \hline\end{array}$
    Total ... ... ... ... ... 172,224

[^1]:    * In order to avoid the possible discclosure of partioulars relating to oertain firms, figures as to the several olasses of
    output can only be given for the United Kingdom as a whole. Separate totals are, however, shown for scotland and for
    the rest of the United Kingrom the figures relating to Treland being combined with those for England and Wales in order

[^2]:    *The figures for England and Wales and for
    particulars relating to the few firms in Ireland.

[^3]:    * In order to avoid the possible disclosure of particulars relating to certain firms, figures can only be shown for
    Great Britain as a whole.

[^4]:    * In order to avoid the possible disclosure of particulars relating to certain firms, figures can only be shown for Great Britain as a whole.

