## SECTION XIII.

MISCELLANEOUS TRADES.

|  | Report. | Tables. |
| :---: | :---: | :---: |
|  | page. | page. |
| general report | 796 | - |
| DETALLED REPORTS AND TABLES:- |  |  |
| Scientific instruments, Apparatus, and Appliances Trades | 800 | 814 |
| ivory, bone, Horn, Picture Frame, and Fancy articles trades | 802. | 817 |
| Musical Instruments Trades | 806 | 820 |
| billiard table and Sports Requisites Trades | 808 | 823 |
| Toys and Games Trades | 811 | 826 |
| Wigmaking trade ... ... ... ... ... ... ... | 812 | 828 |

## SECTION XIII.-MISCELLANEOUS TRADES.

## GENERAL REPORT.

The following Section deals with the trades engaged in the manufacture of scientific instruments, apparatus, and appliances, articles of ivory, bone, and horn, picture frames and fancy articles, musical instruments, billiard tables and sports requisites, toys and games, and wigs.

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 cut ivory, bone, horn, \&c., shows only that portion of the ivory, bone, horn, \&c. cut in the year of return, which was either sold as cut ivory, bone, horn, \&c., or remained in stock at the end of the year as cut ivory, bone, horn, \&c., and does not include ivory, bone, horn, \&c., made into handles, combs, or fancy goods by the firms that cut those materials. Duplication arising from goods being sold by some firms and worked up by others, 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 conimission. 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 give 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, taxes, depreciation, sale 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 the Report, the gross output, the cost of materials used, the amount paid for work given 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 engines at factories. The figures.
relate to the United Kingdom as a whole. The horse-power shown does not include power rented from other establishments or the capacity of motors driven by purchased electricity.

| Trade. | $\begin{gathered} \text { Gross } \\ \text { Output. } \\ \text { Selling Value } \\ \text { or Value } \\ \text { of } \\ \text { Work Done. } \end{gathered}$ <br> (1) | Used. <br> Cost. <br> (2) | $\begin{gathered} \text { Work } \\ \text { Given Out. } \\ \text { Amount } \\ \text { Apaid } \\ \text { to oher } \\ \text { firms. } \\ \text { (3) } \end{gathered}$ | Net Output. <br> Excess of Column (1) oyer Column (2) and (3). <br> (4) | Persons Employed (except workers). |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | $\begin{aligned} & f^{2}, 000 \end{aligned}$ | 1,535,000 |  | $\stackrel{\text { £ }}{108}$ |  |
| - Scientific Instruments, Ap- paratus, and Appliances | 2,574,000 |  |  |  |  |  |  |
| Ivory, Bone, Horn, Picture | 2,373,000 | 1,332,000 | 13,000 | 1,028,000 | 13,275 | 77 | 2,795 |
| Frame, and Fancy Articles Trades. |  |  |  |  |  |  |  |
| - Musical Instruments Trades ... | 1,865,000 | 786,000 | 23,000 | 1,056,000 | 10,101 | 105 | 2,178 |
| - Billiard Table and Sports | 1,161,000 | 500,000 | 3,000 | 658,000 | 6,510 | 101 | 1,245 |
| Tequaisites and Games Trades | 216,000 | 104,000 | 2,000 | 110,000 | 1,862 |  | 305 |
| Wigmaking Trade ... | 99,000 | 43,000 | , | 56,00 | 870 | 64 |  |
| Total | 8,288,000 | 3,778,000 | 67,000 | 4,443,000 | 46,874 |  | 9,417 |

In the following Table the number of persons employed in factories and workshops is distributed by sex and age and according as they are 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. |  |  |  |  |  |  |  | $\begin{aligned} & \text { Average } \\ & \text { Number of } \\ & \text { Outworkers. } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Wage-earners. |  |  |  | Salaried Persons. |  |  |  |  |  |
|  | Males. |  | Females. |  | Males. |  | Females. |  | Males. | $\begin{aligned} & \mathrm{Fe}- \\ & \text { males. } \end{aligned}$ |
|  | $\begin{gathered} \text { Under } \\ 18 \text { yeare } \\ \text { of age. } \end{gathered}$ | $\begin{gathered} \text { Over } \\ 18 \text { years } \\ \text { of age. } \end{gathered}$ | $\begin{aligned} & \text { Under } \\ & 18 \text { years } \\ & \text { of age. } \end{aligned}$ | $\begin{gathered} \text { Over } \\ 18 \text { years } \\ \text { of age. } \end{gathered}$ | $\begin{gathered} \text { Under } \\ 18 \text { years } \\ \text { of age. } \end{gathered}$ | $\begin{gathered} \text { Over } \\ 18 \text { years } \\ \text { of age. } \end{gathered}$ | $\begin{gathered} \text { Under } \\ 18 \text { years } \\ \text { of age. } \end{gathered}$ | Over 18 year of age. |  |  |
| Scientific Instruments, Apparatus, and Appliances Trades. | 2,102 | 7,242 | 1,145 | 2,233 | 126 | 1,059 | 49 | 300 | 111 | 22 |
| Ivory, Bone, Horn, Picture Frame, and Fancy Articles Trades. | 1,328 | 5,375 | 1,743 | 3,386 | 78 | 1,074 | 46 | 245 | 120 | 89 |
| Musical Instruments Trades ... | 1,228 | 7,696 | 90 | 320 | 46 | 630 | 15 | 70 |  |  |
| - Billiard Table and Sports | $60 \pm$ | 3,550 | 590 | 1,018 | 54 | 546 | 39 | 109 | 70 | 394 |
| Toys and Games Trades | 230 | 466 | 447 | 573 | 4 | 99 | 7 | 36 | 3 | 62 |
| Wigmaking Trade ... ... | 21 | 152 | 227 | 360 | 1 | 65 | 2 | 42 |  |  |
| Total | 5,513 | 24,481 | 4,248 | 7,890 | 309 | 3,473 | 158 | 802 | 304 | 567 |

In the whole group $89 \cdot 9$ per cent. of the persons employed were wage-earners and $10 \cdot 1$ per cent. were salaried persons (including principals). Of the wage-earners 71.2 per cent. were males and 28.8 per cent. were females; 18.4 per cent. of the males and 35.0 per cent. of the females were under 18 years of age. Of the salaried persons $79 \cdot 8$ per cent. were males and 20.2 per cent. were females ;

The total of 871 outworkers dos 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 that the persons actually working for a firm include in certain cases members of outworkers' families in addition to the outworkers recorded in 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 value of the products of this group of trades as returned to the Census of Production Office on the Schedules for the group is $£ 8,288,000$, to which should be added $£ 1,519,000$, the value of similar products included in their statements of output by manufacturers that made their Returns on Schedules for trades outside the group, thus raising the total to $£ 9,807,000$. This figure does not represent the actual value of the goods made as sold for export or consumption or as warehoused at the end of the year. In the first place, there is duplication within certain trades in respect of goods made by some as the value of their output and included by the latter in the being returned by the former The amount of such duplication lies between the latter in the value of the finished goods. a similar duplication between the ivory, bone, horn, \&c and $£ 796,000$. Secondly, there is in respect of ivory, bone, horn, \&c., cut and returned in the and other trades in the group further manufacture into billiard balls, piano keys, in the ivory, \&c., trades and sold for other trades, by whom its value in the finished stage was returned duplication cannot be determined with finished stage was returned. The extent of this cut ivory, \&c., is used in making handles, combs, and fancy articles, is not known. but the total sum involved is $£ 184,000$, and this has already been deducted known; but possible duplication of $£ 796,000$ referred to above (see also page 803). Thirdly, the value of goods made on commission for merchants and retailers is not known, as they were not required to furnish Returns to the Census Office ; only the amount received fore not work by the firms making goods on commission was returned to the Census Office.

In the following statement the approximate value of each class of goods made and repair or other work done is shown free from duplication within the class (e.q., the value of cut ivory used in making fancy articles is not included, but only the value of the finished goods). In the case of the goods made on commission, only the amount received for the work done ( $£ 20,000$ ) is taken into account :-

Scientific Instruments, Apparatus, and Appliances ... 2,890,000 to 2,986,000 Articles of Ivory, Bone, \&c., Picture Frames, Pipes, Tobacco Pouches, \&c., and other Fancy Articles (in-
cluding Waste Products of manufacture)
Musical Instruments, Talking Machines, and Repair... 1,927,000 to 2,111,000
Billiard Tables ... ... ...
$\begin{array}{llllllr}\text { Sports Requisites } & \ldots & \ldots & \ldots & \ldots & \ldots & 338,0.00 \\ \text { Tops }\end{array}$
$\begin{array}{lllllll}\text { Toys and Games } & \ldots & \ldots & \ldots & \ldots & \ldots & \ldots \\ \text { Wigs } & \ldots & \ldots & 240,000\end{array}$
Wigs
240,000
99,000
Products of classes chiefly made by trades outside this $\quad \ldots$ group

472,000
The values of those products which are chiefly made by firms in the trades covered by this group have been calculated after making allowance for the value ( $£ 541,000$ ) of the whole of those classes of goods or work which may be duplicated in the value of more finished articles. Some part, however, of the value of lenses, spectacle frames, parts of scientific instruments, and parts and accessories of musical instruments represents goods sold to merchants and private customers, and, therefore, the value, taken as a whole, of the products chiefly made within this group of trades may be estimated at between $8 \frac{1}{2}$ and ion pounds sterling
As the trades in this group are not similar in character, the comparison of the exports and imports with the output in the United Kingdom is deait with in the Reports on the individual trades.

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:-

Scientific Instruments, Apparatus, and Appliances Trades

Factories. Workshops.
Appliances Trades Apparatus, and
Ivory, Bone, Horn, Picture Frame, and
Fancy Articles Trades
$\begin{array}{lcc}\text { Musical Instruments Trades } & \ldots . & \ldots \\ \text { Billiard Tables and Sprts }\end{array}$
Billiard Tables and Sports Requisites Trades
$\begin{array}{llll}\text { Toys and Games Trades } & \ldots & \ldots & . . \\ \text { Wigmaking Trade } & \ldots & \ldots & \ldots \\ \end{array}$
Total $\quad \ldots \quad \ldots \quad \overline{3,454,000}$
$\begin{array}{cc}\underset{1,364,000}{£} & 171,000\end{array}$
706,000 322,000
827,000
496,000

Total

162,000
49,000
56,000

Fuel Consumed.-All firms with factories receiving the Schedules for this group of trades were asked to make a voluntary statement of the quantity of fuel consumed by them. The replies received are summarised below and shown in relation to the that information regarding fuel has not as a rule ben, furnished in re rece shops, where the quantity used is naturally much less than in factories in proportion shops, where the
to net output:-


## Scientific Instruments, Apparatus, and Appliances Trades

Output.-The Tables on pages 814 to 816 are based on Returns received from factories and workshops engaged in the manufacture and repair of scientific instruments, apparatus, and appliances, other than electrical instruments and apparatus, which are dealt with on page 126. The aggregate value of the output of the firms that made their Returns on the Schedules for the scientific instruments, apparatus, and appliances trades is returned as $£ 2,574,000$, to which should be added $£ 633,000$, the value of similar goods manufactured by firms that made their Returns on Schedules for other trades. The resulting total, $£ 3,207,000$, contains, however, a certain amount of duplication

The following statement shows the value of the output of scientific instruments, apparatus, and appliances, other than electrical instruments and apparatus :-

|  |  | $\begin{gathered} \text { Returned on } \\ \text { Schedules } \\ \text { for other Trades. } \end{gathered}$ | Total. |
| :---: | :---: | :---: | :---: |
| Lenses, Optically Worked Glass, and Prisms of all kinds, when sold separately. | $\stackrel{£}{78,000}$ | £ | $\stackrel{£}{78,000}$ |
| Telescopes, Binoculars, and Microscopes ... ... | 76,000 | - | 76,000 |
| Optical Instruments and Appliances (including Spectacles, Ophthalmoscopes, \&c.). | 243,000 | - | 243,000 |
| Cameras (with or without Lenses) and other Photographic Apparatus, Lanterns, and Cinematographs. | 158,000 | 3,000 | 161,000 |
| Photographic Materials (Plates, Paper, Films, \&c.) ... | 320,000 | 589,000 | 909,000 |
| Barometers, Thermometers, Hydrometers, and similar Instruments. | 108,000 | - | 108,000 |
| Indicators, Gauges, and Recorders .... $\ldots$. $\ldots$ | 60,000 | 8,000 | 68,000 |
| Land Surveying, Drawing, Mathematical, and Nautical Instruments, and Magnetic Compasses. | 437,000 | 6,000 | 443,000 |
| Surgical and Dental Instruments, Apparatus, and Appliances. | 351,000 | 8,000 | 359,000 |
| Artificial Teeth and Dentists' Materials Surgical and Medical Bandages and Dressings | 278,000 19,000 |  | 278,000 |
| Other Instruments, Apparatus, Appliances, and Accessories. | 174,000 | rer,000 |  |
| Total-Scientific Instruments, \&c., other than | 2,302,000 | 633,000 | 2,935,000 |
| Repair Work, not included above | 51,000 | - | 51,000 |
| Total | 2,353,000 | 633,000 | 2,986,000 |

The lenses and prisms valued at $£ 78,000$ were partly sold to merchants and private persons, but some were unquestionably sold to other manufacturers who included their value in the value of the finished goods made by them, thus causing duplication. The same is true of spectacle frames valued at $£ 6,000$ and parts of scientific instruments Making allowance for these possible cases of duplication the total value of the statement. Making allowance for these possible cases of duplication, the total value of the scientific instruments, apparatus, and appliances (other than electrical instruments and apparatus) made in the United Kingdom in the year of return may be estimated as lying between

In addition, the firms to which should be added $£ 51,000$ for repairs
In addition, the firms that made their Returns on Schedules for the scientific instruments, apparatus, and appliances trades included in their statements of output the rades by which they are chicfly produced of wich is dealt with

Machinery :-
Value.
Electrical of all kinds
Mashiue Tools
Other Sorts
58,000
58,000
8,000
8,000
15,000
Total-Machinery. .
... 81,000

## Electrical, Telegraphic, and Telephonic Instruments

 Other ProductsTotal

In addition, $£ 14,000$ was received for work done for the trade, and is also inciuded in the value of the complete instruments and apparatus made.

The aggregate gross value of the output of the firms that made their Returns on the Schedules for the scientific instruments trades is $£ 2,574,000$, and deducting the amount received for work done for the trade ( $£ 14,000$ ) and allowing for the possible duplication of $£ 96,000$ in respect of lenses, spectacle frames, and parts of instruments, the value of the output of those firms, take as a mole may be estimated at a sum lying between £2,464,000 and £2,560,000.

The exports of scientific instruments and apparatus (other than electrical) and talking machines in 1907 were valued at $£ 812,000$, free on board, or 47 per cent. of the value at works of the scientific instruments and of talking machines (see page 806) produced in the United Kingdom, while the net imports (i.e, imports less re-exports) wer mane than one-third of the value (exs or inose " in 1907 ere valued at 133,000 free on board or about 47.8 (except phe net imports a the output of the United Kingdom The exports and imports of photographic material (plates paper, flms ${ }^{\circ}$ ), cals in 1907
Net Output. - The net output of the factories and workshops covered by the Tables on pages 814 to 816 (whose gross output was valued at $£ 2,574,000$ ) was $£ 1,535,000$ that sum representing the total amount by which the value of the output of thos factories and workhops exceeded the cost of the materials und and and to other firms for work done in on The actual cost of a 9017,000 $£ 917,000$ and $£ 1,013,000$. The amount paid to other firms for work given out to
em was $£ 26,000$.
The net output per head of persons employed (exclusive of outworkers) in the censal year was nearly $£ 108$.

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 814 to 816 is returned as 14,256 , viz., 12,722 wage-earners and 1,534 salaried persons, the total number being distributed by age and sex as follows :-

Males:-
Under 18
2,228
8,301
Females :-
Under 18
Under 18
Over 18
. 1,194
ers on the books of the employ February and 1st Ausust, 1907 , 133 , viz, 111 males and 22 females.
February and 1st August, 1907 , averaged 133, viz., 111 males and in employment in factories during the censal year is shown in the following statement:-


There were also 1,519 wage-earners and 341 salaried persons ordinarily employed in workshops.
I 24678

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


As already indicated, whereas the total number of persons employed in factories in the scientific instrument trades was 12,396 , firms employing 137 persons rented their power. Precise details as to the amount and kind of such power 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:-
Steapacity of Enngines, Reciprocating 358 Other Power

Total $\begin{array}{r}232 \\ 590 \\ \hline\end{array}$

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 engine-power belonging to scientific instrument factories was required Manufacturers were also required to state the quantity of el
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 :-


[^0] were able to state only the amounts paid by them.

## Ivory, Bone, Horn, Picture Frame, and Fancy Articles Trades.

Output.-The Tables on pages 817 to 819 are based on Returns received from factories and workshops engaged in working ivory, horn, bone, and their substitutes, and in manufacturing picture frames and fancy articles. The aggregate value of the output. of the firms that made their Returns on the Schedules for the ivory, bone, horn, picture
added $£ 196,000$, 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 $£ 2,569,000$ contains, however, some duplication.

The following statement shows the particulars furnished respecting the output of finished goods and is believed to be substantially free from duplication :-

|  | Returned on Schedules for the Ivory, Bone, Horn, and Fancy Articles Trades. | Returned on <br> Schedules for other Trades. | Total. |
| :---: | :---: | :---: | :---: |
| Articles of Ivory, Bone, Horn, Jet, Celluloid, \&c. | $\stackrel{f}{487,000}$ | $\stackrel{£}{6,000}$ | $\stackrel{£}{£ 93,000}$ |
| (including handles, combs, and fancy goods). | 654,000 | 40,000 | 694,000 |
| ${ }_{\text {Picture }}$ Fripes, Tobacce Pouches, Cigar and Cigarette $\ldots \ldots$ | 208,000 | 45,000 | 253,000 |
| and Cases (excluding Clay Pipes). |  |  |  |
|  | 117,000 | 14,000 | 131,000 |
| Fancy Articles of Wood, Metal, Paper, Wax, Clay, Plaster, \&c. | 42,000 | 25,000 | 67,000 |
|  | 10,000 | 1,000 | 11,000 |
| Cushions, Cosies, Pincushions, \&c. | 43,000 | 42,000 | 85,000 |
| Waste Products ... ... ...... ... ..... | 41,000 | - | 41,000 |
| Total ... ... ... | 1,739,000 | 177,000 | 1,916,000 |

In addition, the firms that made their Returns on the Schedules for the ivory, bone, horn, picture frame, and fancy articles trades included in their statements of output the following gcods which are chiefly manufactured in other trades and are dealt with in the Reports on those trades:-

Fancy Leather Goods
Plain and Fancy Cardboard Boxes
Value.
£
145,000

Goods of Silver, including Mounted Articles Other Products

- Pro

Total
229,000
Further, firms making Returns on the Schedules for the ivory, bone, horn, picture frame, and fancy articles trades stated that they had made "ivory, bone, horn, \&c., cut " to the value of $£ 165,000$, and similar goods to the value of about $£ 19,000$ were included in their statements of output by firms that made their Returns on Schedules for other trades. Part of this semi-manufactured material may have been sold to firms that furnished to the Census Office Returns of the value of their goods as included in the foregoing statement, but part of it no doubt was sold to cutlery and other firms that made their Returns on Schedules for other trades. It is, consequently, not possible to say how far the sum of $£ 184,000$ may be duplicated in the $£ 493,000$ returned as the value of articles of ivory, bone, \&c.
"Materials for the manufacture of fancy articles". were also returned on the Schedules for the ivory, \&c., trades to the value of $£ 216,000$, but it is probable that by far the greater part of this sum is also included by the makers of fancy articles in the value of their output. The sum of $£ 24,000$ is also returned as received for work done for the trade. Firms that made Returns to the Census Office of the value of their finished goods stated that they paid $£ 13,000$ to other firms for work given out to them. The difference- $£ 11,000$-between this sum and the amount received for work done for the trade represents the amount received for work done for merchants and retailers who were not required to make Returns ; the value of the goods so made is not known.

Taking together the value of the finished goods ( $£ 1,968,000$ ) and the amount eceived for work done for merchants, \&c. ( $£ 11,000$ ), the value of the output of the firms that made their Returns on the Schedules for the ivory, bone, horn, picture frame and fancy articles trades is at least $£ 1,979,000$, and is greater by that portion of the cut ivory, \&c., and other semi-manufactured materials, valued at $£ 381,000$, which was exported or sold to manufacturers whose output is not included in Table I on page 817. Including all Returns irrespective of the Schedules on which they were made, but
excluding $£ 229,000$, the value of fancy leather goods and other goods chiefly made in other trades, the value of the main products of this group of trades may similarly be estimated at a sum lying between $£ 1,927,000$ and $£ 2,111,000$.

A considerable portion of the output of goods of ivory, horn, bone, leather, and of other articles is not included in the statement on the previous page but was returned as part of the output of the cutlery, leather, and other trades.

No satisfactory comparison can be made between the production of the classes of goods enumerated in the statement on the previous page and the exports and imports, as the classification adopted for the purposes of the Census does not correspond with that followed in the Export and Import Lists. The following particulars may, however, be given :-


The value of the imports are taken at port of landing and those of exports as free on board. The imports of picture frames, other than fancy, are included under "wood manufactures " and those of fancy picture frames under "fancy goods." The exports of Net Output. -The net output of the factoris pages 817 to 819 (whose gross output was valued sum representing the total amount by which the value of the and workshops exceeded the cost of the materials used and the amount paid factories firms for work done by them on those materials for the principal firms. The actual cost of materials (exclusive of the materials given out by merchants to me. The actual cost by those factories and workshops, taken as a whole, cannot be precisely stated, but it used be estimated at a sum lying between $£ 951,000$ and $£ 1,116,000$. The amount pid ther firms for work given out to them was $£ 13,000$

The net output per head of persons (exclusive of outworkers) employed in th censal year was a little over £ 77 .

Persons Employed.-The average number of persons employed on the last Wednes days in January, April, July, and October in the factories, together with the number ordinarily employed in the workshops, covered by the Tables on pages 817 to 819 i returned as 13,275 , viz., 11,832 wage-earners and 1,443 salaried persons, the total number being distributed by age and sex as follows :-

Males:-

$$
\begin{array}{llll|llll}
\text { les :- } & & & & \text { Females :- } \\
\text { Under 18 } & \ldots & \ldots & 1,406 & \text { Under } 18 & \ldots & \ldots & 1,789 \\
\text { Over } 18 & \ldots & \ldots & 6,449 & \text { Over } 18 & \ldots & \ldots & 3,631
\end{array}
$$

In addition, the average number of outworkers on the books of the employing firm 1 st February and 1st August, 1907, was 209, viz., 120 males and 89 females. 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 ... <br> Salaried Persons |  |  |  | $\begin{array}{r} 8,097 \\ 695 \end{array}$ | $\begin{array}{r} 8,049 \\ 702 \end{array}$ | $\begin{array}{r} 7,966 \\ 699 \end{array}$ | $8,338$ |
| Total ... | ... | $\ldots$ | ... | 8,792 | 8,751 | 8,665 | 9,050 |

There were also 3,719 wage-earners and 741 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) ... <br> Total |  | $\ldots$ | $£$ $1,518,000$ 206,000 649,000 | $\begin{array}{r} 8,229 \\ 586 \\ 4,460 \end{array}$ | Horse-Power. <br> 2,795 |
|  |  | ... | 2,373,000 | 13,275 | 2,795 |

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


As shown above, whereas the total number of persons employed in factories in the ivory, bone, horn, picture frame, and fancy articles trades was 8,815 , firms employing 586 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 :Steam Engines, Reciprocating Other Power

Total

| Kilowatts. |
| :---: |
| 495 |
| 35 |
| 530 |

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 28 per cent. of the engine-power belonging to ivory, bone, horn, picture frame and fancy articles 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 heir own dynamos, but owing to the insufficiency of their records some of them were unable to do so. The following statement summarises the information furnished :-

| Dynamos driven by |  |  | Total Capacity of Dynamos. | Electricity Generated, so far as particulars were returned. |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Capacity of Dynamos. | Electricity Generated. |
| Steam Engines, Reciprocating Other Power | $\ldots$ | $\ldots$ | Kilowatts. 495 35 | Kilowatts. $490$ | Board of Trade Units. $1,585,000$ |
| Total ... ... | ... | ... | 530 | 490 | 1,585,000 |

[^1]Office in respect of the quantities of electricity purchased by some small firms who were able to state only the amounts paid by them.

## Musical Instruments Trades

Output.-The Tables on pages 820 to 822 are based on Returns received from factories and workshops engaged in the manufacture of musical instruments.

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

| Harmoniums and American Organs | 4,300 | 30,000 |
| :---: | :---: | :---: |
| Pianofortes | 58,100 | 972,000 |
| Player Pianos and Piano Players | 500 | 23,000 |
| Pipe Organs, including Additions to existing Organs | - | 275,000 |
| Parts and Accessories of Organs, Pianofortes, Harmoniums, \&c. | - | 212,000 |
| Other Musical Instruments, Parts, and Accessories :- |  |  |
| Wind Instruments | - | 73,000 |
| Stringed Instruments | - | 1.5,000 |
| Percussion Instruments | - | 9,000 |
| Instruments, not separately distinguished | - | 9,000 |
| Talking Machines and Records for same | - | 69,000 |
| Other Products.. | - | 20,000 |
| Amount Received for Repairs, including Upkeep and Tuning... | - | 151,000 |

The total value of the above-mentioned products and work done amounts to $£ 1,865,000$. In addition, talking machines and records to the value of $£ 5,000$ were included in their statements of output by firms that made their Returns on Schedules for other trades, raising to $£ 74,000$ the total value of talking machines and records made in the United Kingdom in the year of return.

The heading "parts and accessories of organs, pianofortes, harmoniums, \&c." (valued at $£ 212,000$ ) includes (1) parts which were made by certain firms and sold by them to makers who have included their value in the value of the complete organs, pianofortes, harmoniums, \&c., made by them or in the value of their repair work ; (2) parts made and exported or sold to retailers for use in repairs ; and (3) accessories which are not included in the value of the ( ments, parts, and accessories (valued at 2106,00 inclades (1) complete instruments ; (2) parts whose value has been returned twice to the Census Offce, once by their makers and again by the makers of complete instruments to whom they were sold ; (3) parts in the value of instruments in the value of instruments made. The total value, free on board, of parts of musical instruments exported Census Office does not enable the balance of the sums of £212,000 and £ 106,000 to be llocated between these several classes, and consequently the amount of duplication nvolved $(£ 7,000$ ) is included in the value of the complete instruments made

Taking as a whole, therefore, the goods made and repairs executed in the factories and workshops included in the Tables on pages 820 to 822 , their value may be estimated at a sum lying between $£ 1,597,000$ and $£ 1,858,000$. It should be noted, however, that the amount returned to the Census Office ( $£ 151,000$ ) for repairs does not represent the total cost of all repairs executed on musical instruments in the United Kingdom, since dealers in musical instruments who only employed a few men in tuning, repairing, \&c., were not asked to make returns. Taking together musical instruments, talking machines,
and repair work, as returned on all Schedules (but excluding the value of "other products, which are dealt with under the trades concerned), their value as a whole may be estimated at a sum lying between $£ 1,582,000$ and $£ 1,843,000$.

The following statement shows the production of musical instruments in the United Kingdom in comparison with the Exports and Imports :-


* I.e., imports less re-exports.
+ American Organs and Harmoniums.
$\ddagger$ Including Piano Players and Player Pianos.
8 Including Pipe Organs and Accessories to Musical Instruments
After allowing (as already explained) for possible duplication in the value of the parts produced in the United Kingdom, the value of the exports of instruments and parts, free on board, may be estimated at between $18 \cdot 1$ and 21.6 per cent. of the value at work of the instruments and parts made in the United Kingdom, and the value, at port of landing, of the net imports of instruments and parts at about two-thirds of the value a works of the instruments and parts made in the United Kingdom. The exports and imports of talking machines are included with those of scientific instruments and apparatus.

Net Output.-The net output of the factories and workshops covered by the Tables on pages 820 to 822 (whose gross output was valued at $£ 1,865,000$ ) was $£ 1,056,000$, that sum representing the total amount by which the value of the output of those factorie and workshops exceeded the cost of the materials used and the amount paid to othe 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, cannot be precisely stated but it may be estimated at a sum lying between $£ 525,000$ and $£ 786,000$. The amount paid to other firms for work given out to them was $£ 23,000$.

The net output per head of persons employed in the censal year was nearly $£ 105$.
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 820 to 822 is returned as 10,101 , viz. 9,340 wage-earners and 761 salaried persons, the total number being distributed by age and sex as follows :-

## Males:-

Under $18 \ldots \quad$... $18.274 \quad$ Females :-
$\begin{array}{llll}\text { Under } 18 & \ldots & \ldots & 1,274 \\ \text { Over } 18 & \ldots & \ldots & 8,326\end{array} \quad$ Under 18
111
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 $\ldots$ <br> Salaried Persons | $\ldots$ | $\ldots$ | $\ldots$ | 7,220 | 6,889 | 6,960 | 7,514 |  |
| Total $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | 7,747 | 7,407 | 7,488 | 8,057 |  |

There were also 2,194 wage-earners and 232 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. | Number of <br> Persons Employed. | Total Capacity of <br> Engines. |
| :--- | :--- | :--- | :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

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

> Steam Engines, Reciprocating
> Internal Combustion Engines (gas, oiil, \&c.)
> Water Power ... ... ... ...

Horse-Power.

Total
2,178
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 :-

Total ..
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 musical instrument factories was required for driving dynamos for the production of electric power and light.

Manufacturers were also required to state the quantity of electricty 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 of Dynamos. | Electricity Generated, so far as particulars were returned. |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Capacity of Dynamos. | Electricity Generated. |
| Steam Engires Other Power | Reciprocating... | $\ldots$ | $\begin{gathered} \text { Kilowatts } \\ 176 \\ 128 \end{gathered}$ | Kilowatts. 171 14 | Board of Trade Units. 143,000 5,000 |
|  | ... ... | .. | 304 | 185 | 148,000 |

About 206,000 Board of Trade units of electricity were purchased by manufacturers or 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

## Billiard Table and Sports Requisites Trades.

Output.-The Tables on pages 823 to 825 are based on Returns received from factories and workshops engaged in the manufacture of billiard and bagatelle tables and accessories and of requisites for outdoor and athletic games and sports. A large portion of the output of golf balls, tennis balls, and other rubber balls is not included in these l'ables but in those dealing with india-rubber manufactures (see page 669). The
making and repairing of golf clubs, \&c., by professional golfers is also excluded. The making and repairing of ge firms that made their Returns on the Schedule aggregate value of the output of the firms trades is returned as $£ 1,161,000$, to which orld be added $£ 683,000$, the value of sports requisites, \&c. included in their㲘 The resulting total of $£ 1,844,000$ contains, however, a little duplication.
The following statement shows the particulars furnished respecting the output of inished goods, and is free from duplication :-

| - | Returned on Schedules for the Billiard Table and Sports Requisites Trades | $\begin{gathered} \text { Returned on } \\ \text { Schedules } \\ \text { for other Trades. } \end{gathered}$ | Total. |
| :---: | :---: | :---: | :---: |
| Billiard and Bagatelle Tables, Parts, and Accessories (including Billiard Room Furniture and Fittings, Setting-up and Repair Work, and the value added in Re-fitting Second-hand Tables). | $\stackrel{£}{\substack{£ \\ 3 \\ \hline}}$ | $\stackrel{£}{£}$ | $\stackrel{£}{£}$ |
| Requisites for Outdoor and Athletic Games and Sports (i.e., for Cricket, Tennis, Fishing, Golf, Gymnastics, \&\&.) including Repair Work. Other Products | 772,000 40,000 | 682,000 | $1,454,000$ 40,000 |
| Total ... ... ... | 1,149,000 | 683,000 | 1,832,000 |

In addition, £12,000 was received for work done for the trade. Firms that furnished to the Census Office Returns of the value of their finished goods stated that they paid $£ 3,000$ for work given out to other firms. The difference (£9,000) between this sum and the total amount received for work done for the trade represents the amount received for work done for merchants or retailers who were not required to make Returns, and is an addition to the value of the finished goods made. The value of the goods made for merchants is not known.

Adding together the value of the finished goods made and the amount received for work done for merchants, the value of the output, taken as a whole, of the factories and work done workshops covered by the lables on pages " other products" which are dealt with under their respective trades, was $£ 1,801,000$.

The sports requisites returned on Schedules for other trades include golf balls, tennis The the value of $£ 499,000$ and fishing tackle and fish-hooks to the value of $£ 131,000$

In addition, it is probable that a good deal of leather and wood-work for sports and games has been returned by the makers under general headings on other Schedules and cannot be identified.

Owing to the limitations imposed by the Census of Production Act it was not possible in the compulsory part of the Schedule to require manufacturers to state the number of the billiard tables and bagatelle boards made by them. All firms with factorie were, accordingly, requested to furnish that information voluntarily, and firms with an output of billiard tables and bagatelle boards valued at $£ 171,000$, or 50.6 per cent. of the total, stated that their output of new complete tables consisted of 972 full-sized billiard tables 631 small and miniature billiard tables (including convertible dining tables), and 259 bagatelle boards. Firms with an output valued at $£ 77,000$ did not furnish the desired statement, and firms owning workshops with an output of billiard tables and bagatelle boards valued at £ 89,000 were not asked for particulars as to numbers of tables made.

In the Import and Export Lists billiard and bagatelle tables and requisites for out door and athletic games and sports, such as golf, tennis, cricket, \&c., are included with other articles under the general heading "toys and games." The exports of "toys and games" in 1907 were valued at $£ 534,000$, free on board, and the net imports (i.e., imports less re-exports) at $£ 1,210,000$ at port of landing. The value at works of the billiard tables and sports requisites produced in the United Kingdom was, as stated above, $£ 1,801,000$ (including repairs and work done for merchants) and of toys and games $\pm 240,000$ (see page 811 ), or altogether $£ 2,041,000$, but as this sum includes repairs and does not include goods made by professional golfers or by manufacturers who made their Returns on Schedules for other trades and included their output of sports requisites under general headings in which they cannot be identified, it is not possible to make a complete
comparison of the production of billiard tables, \&c., in the United Kingdom with the exports and imports.
Net Output.- The net output of the factories and workshops covered by the Tables on pages 823 to 82. (whose gross output was valued at $£ 1,161,000$ ) was $£ 658,000$, that 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 £500,000. The amount paid to other firms for work given out to them was $£ 3,000$.
The net output per head of persons employed (exclusive of outworkers) in the censal year was a little over £101.
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 823 to 825 is returned as 6,510 , viz., 5,762 wage-earners and 748 salaried persons, the total number being distributed by age and sex as follows :-

Males:-
Under 18
Over 18
658
4,096
Females :-
Under 18
Over 18
In addition, the average number of outworkers on the books of the employing firm on 1st February and 1st August, 1907, was 464, viz., 70 males and 394 females.

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


There were also 1,528 wage-earners and 202 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.)

Horse-Power.
Water Power

| 433 |
| :--- |
| 797 |

## Total

15

$$
\begin{array}{llllll}
\ldots & \ldots & \ldots & \ldots & \ldots & 1,245
\end{array}
$$

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 :-

$$
\begin{array}{rlllllll}
\begin{aligned}
\text { Capacity of Dynamos driven by :- }
\end{aligned} & & & & \text { Kilowatts. } \\
\text { Steam Engines, Reciprocating } & \ldots & \ldots & \ldots & \ldots & 100 \\
\text { Other Power } & \ldots & \ldots & \ldots & \ldots & \ldots & \ldots & 81 \\
\text { Total } & \ldots & \ldots & \ldots & \ldots & \ldots & \ldots & 181 \\
\hline
\end{array}
$$

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 one-fifth of the engine-power belonging to factories engaged in the manufacture of billiard table and sports requisites 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 : -


About 20г, 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.

## Toys and Games Trades.

Output.-The Tables on pages 826 and 827 are based on Returns received from factories and workshops engaged in the manufacture of toys and games. The aggregate value of the output of the firms that made their Returns on the Schedules for the toys and games trades is returned as $£ 216,000$, to which should be added $£ 51,000$, the value of similar articles included in their statements of output by firms that made their Returns on Schedules for other trades. The resulting total of $£ 267,000$ involves, however, duplication to the extent of $\pm 2,000$.

The following statement shows the particulars furnished respecting the output of finished articles, and is free from duplication :-


In addition, the sum of $£ 2,000$ was received for work done for the trade and is included in the value of the finished goods made.

The exports and imports of toys and games are included in the Export and Import Lists under the same heading as billiard tables and sports requisites and are dealt with on page 809 .
Net Output - The net output of the factories and workshops covered by the Tables on pages 826 and 827 (whose gross output was valued at $£ 216,000$ ) was $£ 110,000$, 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 $£ 104,000$. The amount paid to other firms for work given out to them was $£ 2,000$.

The net output per head of persons employed (exclusive of outworkers) in the censal year was a little over £う 9 .

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 ordinaril employed in the workshops, covered by the Tables on pages 826 and 827 is returned a 1,862 , viz., 1,716 wage-earners and 146 salaried persons, the total number being distributed by age and sex as follows :-

$$
\begin{array}{cccc|cccc}
\text { Males :- } \\
\text { Under } 18 & \ldots & \ldots & 234 & \text { Females :- } \\
\text { Over } 18 & \ldots & \ldots & 565 & \text { Under } 18 & \ldots & \ldots & 454 \\
\text { Over } 18 & \ldots & \ldots & 609
\end{array}
$$

In addition, the average number of outworkers on the books of the employing firms on 1st February and 1st August, 1907, was 65, viz., 3 males and 62 females.

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 $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | 852 | 854 | 864 | 1,016 |
| Salaried Persons | $\ldots$ | $\ldots$ | $\ldots$ | 66 | 66 | 65 | 69 |
| Total $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | 918 | 920 | 929 | 1,085 |

$$
\begin{aligned}
& \text { There were also } 820 \text { wage-earners and } 79 \text { salaried persons ordinarily employed in } \\
& \text { workshops. } \\
& \begin{array}{l}
\text { Power.-The particulars furnished }
\end{array} \\
& \text { with regard to power are summarised below, } \\
& \text { electricity purchased not being included :- }
\end{aligned}
$$

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

> Steam Engines, Reciprocating
> Horse-Power.
> Internal Combustion Engines (gas, oil, \&c.) ... ...
> Total
> ...

One firm used a dynamo driven by an internal combustion engine included in the above total ; its capacity was 8 kilowatts, and the total amount of electrical energy generated was 8,000 Board of Trade units.

About 25,000 Board of Trade units of electricity were purchased by manufacturers for power and lighting purposes.

## Wigmaking Trade.

Output.-The Tables on page 828 are based on Returns received from workshops where wigs and other manufactures of hair, and also hair pads and frames, were made where wigs and other manuactures of hair, and also hair pads and fran
Wigmaking work done in barbers' and hairdressers' shops is not included.

The total value of the goods made in wigmakers' workshops amounted to $£ 98,000$, free from duplication, the details being as follows :-

> Wigs and other Manufactures of Hair
> Hair Pads and Frames ... ...

In addition $£ 1,000$ was received for work which appears to have been wholly done for hairdressers and others who were not required to make Returns, but the selling value of the goods so made is not known. Adding this sum to the value of the finished goods the value of the output of wigmakers' workshops, taken as a whole, is f99,000

Net Output. -The net output of the workshops covered by the Tables on page 828 was $£ 56,000$, that sum representing the total amount by which the value of the output of such workshops (including the amount received for work done for hairdressers) exceeded the cost of materials used. The actual cost of materials (exclusive of those given out by hairdressers to be worked up) was £ 43,000 .
The net output per head of persons employed in the censal year was a little over $\xlongequal{\text { £ } 64 .}$

Persons Employed.-The average number of persons employed in the workshops covered by the Tables on page 828 is returned as 870 , viz., 760 wage-earners and 110 covered by the Tables on page 828 is returned as 870 , viz., 760 wage-earners
salaried persons, the total number being distributed by age and sex as follows:-


|  |  |  |  | Females :- |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Under 18 | $\ldots$ | $\ldots$ | 22 |  |  |  |  |
| Under 18 | $\ldots$ | $\ldots$ | 229 |  |  |  |  |
| Over 18 | $\ldots$ | $\ldots$ | 217 | Over 18 | $\ldots$ | $\ldots$ | 402 |

TABLES.

SCIENTIFIC INSTRUMENTS, APPARATUS, AND APPLIANCES TRADES.

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 and Ireland.* | Scootland. | ( ${ }_{\text {United }}^{\substack{\text { Uingdom. }}}$ |
| :---: | :---: | :---: | :---: |
| Scientific Instruments, Apparatus, Appliances, and Accessories, and parts thereof (other than Electrical Instruments, \&c.) :- | £ | £ | $£$ |
| Lenses, Optically Worked Glass, and Prisms of all kinds, when sold separately. | $\dagger$ | $\dagger$ | 78,000 |
| Telescopes, Binoculars, and Microscopes Optical Instruments and Appliances (including | 76,000 | $\dagger$ | 76,000 |
| Spectacles, Ophthalmoscopes, \&pe.). |  |  |  |
| Cameras (with or without Lenses) and other Photographic Apparatus, Lanterns, and Cinematographs. | 153,000 | 5,000 | 158,000 |
| Photographic Materials (Plates, Paper, Films, \&c.) ... | 320,000 |  | 320,000 |
| Barometers, Thermometers, Hydrometers, and similar Instruments. | + | $\dagger$ | 108,000 |
| Indicators, Gauges, and Recorders ... . |  |  | 60,000 |
| Land Surveying, Drawing, Mathematical, and Nautical Instruments, and Magnetic Compasses | 393,000 | 44,000 | 437,000 |
| Surgical and Dental Instruments, Apparatus, and Appliances. | 336,000 | 15,000 | 351,000 |
| Artificial Teeth and Dentists' Materials ... ... |  |  | 278,000 |
| Surgical and Medical Bandages and Dressings ... | an | ${ }^{\dagger}$ | $19,000$ |
| Other Instruments, Apparatus, Appliances, and Accessories. |  |  |  |
| Total-Scientific Instruments, \&c. (other than | 2,115,000 | 187,000 | 2,302,000 |
| Machinery |  |  |  |
| Electrical of all kinds |  |  |  |
| Machine Tools .. ... ... ... ... |  |  | 8,000 |
| Other Sorts ... ... ... ... ... ... | 14,000 | 1,000 | 15,000 |
| Electrical, Telegraphic, and Telephonic Instruments $\ldots$ | 79,000 |  | 79,000 |
| Other Products $\ldots$..... ... | 38,000 | 9,000 | 47,000 |
| Repair Work, not included above |  |  | 51,000 |
| Total Value of Goods Made and Repairs ... | 2,346,000 | 214,000 | 2,560,000 |
| Amount Received for Work Done for the Trade | 13,000 | 1,000 | 14,000 |
| Total Value of Goods Made and Work Done | 2,359,000 | 215,000 | 2,574,000 |

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.

|  | England and Wales and Ireland.* | Scotland. | United Kingdom. |
| :---: | :---: | :---: | :---: |
| Cost of Materials Used ... <br> Amount Paid to Other Firms for Work Given Out to them | $\begin{array}{r} \stackrel{f}{96}, 000 \\ 25,000 \end{array}$ | $\begin{gathered} f \\ 67,000 \\ 1,000 \end{gathered}$ | $\begin{array}{r} £ \\ 1,013,000 \\ 26,000 \end{array}$ |
| Total | 971,000 | 68,000 | 1,039,000 |
| Value of Output:- <br> Goods Made for Sale <br> Work Done for the Trade ... | $\begin{array}{r} 2,346,000 \\ 13,000 \end{array}$ | $\begin{array}{r} 214,000 \\ 1,000 \end{array}$ | $\begin{array}{r} 2,560,000 \\ 14,000 \end{array}$ |
| Total | 2,359,000 | 215,000 | 2,574,000 |
| Value of Output less Cost of Materials Used and Amount Paid to Other Firms for Work Given out to them. | 1,388,000 | 147,000 | 1,535,000 |

Scientific Instruments, Apparatus, and Appliances Trades-continued.
TABLE III.-PERSONS EMPLOYED.
a.-Average Number of Persons (except Outworkers) at Wori 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. |  | Male | es and Fe | emales. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Under } \\ & 18 \text { years } \\ & \text { of age. } \end{aligned}$ | $\begin{aligned} & \text { Over } \\ & \text { 18 years } \\ & \text { of age. } \end{aligned}$ | Total. | $\begin{gathered} \text { Wnder } \\ 18 \text { years } \\ \text { of age. } \end{gathered}$ | $\begin{array}{\|l\|l} \text { O ver } \\ 18 \text { years } \\ \text { of age. } \end{array}$ | Total. | Under 18 years of age. | $\begin{gathered} \text { Orer } \\ 18 \text { years } \\ \text { of age. } \end{gathered}$ | Total. |
| England and Wales <br> and Ireland*:- <br> Wage-earners <br> Salaried Persons | 1,795 118 | 6,523 978 | 8,318 1,096 | 1,106 47 | 2,172 262 | 3,278 309 | $\begin{array}{r} 2,901 \\ \quad 165 \end{array}$ | $\begin{aligned} & 8,695 \\ & 1,240 \end{aligned}$ | $\begin{array}{r} 11,596 \\ 1,405 \end{array}$ |
| Total | 1,913 | 7,501 | 9,414 | 1,153 | 2,434 | 3,587 | 3,06ó | 9,935 | 13,001 |
| ScotLand :-Wage-earners Salaried Persons | 307 8 | $\begin{array}{r} 719 \\ 81 \end{array}$ | 1,026 89 | 39 2 | 61 38 | 100 40 | $\begin{array}{r} 346 \\ 10 \end{array}$ | $\begin{aligned} & 780 \\ & 119 \end{aligned}$ | 1,126 129 |
| Total | 315 | 800 | 1,115 | 41 | 99 | 140 | 356 | 899 | 1,255 |
| United Kingdom :- <br> Wage-earners <br> Salaried Persons | $\begin{array}{r} 2,102 \\ 126 \end{array}$ | $\begin{aligned} & 7,242 \\ & 1,059 \end{aligned}$ | $\begin{aligned} & 9,344 \\ & 1,185 \end{aligned}$ | $\begin{array}{r} 1,145 \\ 49 \end{array}$ | $\begin{array}{r} 2,233 \\ 300 \end{array}$ | $\begin{array}{r} 3,378 \\ 349 \end{array}$ | $\begin{array}{r} 3,247 \\ 175 \end{array}$ | $\begin{aligned} & 9,475 \\ & 1,359 \end{aligned}$ | $\begin{array}{r} 12,722 \\ 1,534 \end{array}$ |
| Total .. | 2,228 | 8,301 | 10,529 | 1,194 | 2,533 | 3,727 | 3,422 | 10,834 | 14,256 |
| b.-Average Number of Outworkers on 1st February and1st August, 1907. |  |  |  |  |  |  |  |  |  |
| - |  |  |  |  | Males. |  | Females | Males and Females, |  |
| England and Wales SCotland ... ... | $\text { AND } I_{R}$ | Eland* |  |  | 108 |  | 22 | $\begin{array}{r} 130 \\ 3 \\ 3 \end{array}$ |  |
| Total : United Kingdom |  |  |  | ... . |  |  | 22 |  | 133 |

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

|  | $\begin{gathered} \text { Gross } \\ \text { Value } \\ \text { of } \\ \text { output. } \end{gathered}$ | $\begin{gathered} \text { Number } \\ \text { of } \\ \text { Persons } \\ \text { Em- } \\ \text { ployed. } \end{gathered}$ | Total Capacity Engines | Gross Value Output | $\begin{gathered} \text { Number } \\ \text { of } \\ \text { oersons } \\ \text { Emp. } \\ \text { ployed. } \end{gathered}$ | Total <br> Capacity <br> Engines. | $\begin{gathered} \text { Gross } \\ \text { Value } \\ \text { of } \\ \text { Output. } \end{gathered}$ | $\begin{gathered} \text { Number } \\ \text { of } \\ \text { Persons } \\ \text { Emomed. } \\ \text { ploged. } \end{gathered}$ | $\begin{gathered} \text { Total } \\ \text { Capacity } \\ \text { of } \\ \text { Engines، } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | England and Wales and Ireland.* |  |  | Scotland. |  |  | United Kingdom. |  |  |
| Factories with their | $\stackrel{£}{2,083,000}$ | 11,129 | $\begin{aligned} & \text { Horse- } \\ & \text { Power. } \end{aligned}$ $2,634$ | $\stackrel{£}{199,000}$ | 1,130 | $\begin{array}{\|r} \text { Horse- } \\ \text { Power. } \\ 260 \end{array}$ | $\stackrel{£}{2,282,000}$ | 12,259 | $\begin{gathered} \text { Horse- } \\ \text { Power. } \\ 2,894 \end{gathered}$ |
| own Engines. <br> Factories renting | 17,000 | 108 | - | 6,000 | 29 | - | 23,000 | 137 | - |
| their Power. Workshops (not using | 259,000 | 1,764 | - |  | 96 | - | 269,000 | 1,860 |  |
| Тотац | 2,359,000 | 13,001 | 2,634 | 215,000 | 1,235 | 260 | 2,574,000 | 14,256 | 2,894 |

Scientific Instruments, Apparatus and Appliances Trades-continued.
TABLE IV.-CAPACITY OF ENGINES OWNED AND AMOUNT OF ELECTRICITY PURCHASED—continued.
b.-Type and Capacity of Engines and Capactity of Dynamos.

c.-Amount of Electricity Purchased.

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


IVORY, BONE, HORN, PICTURE FRAME, AND FANCY ARTICLES TRADES.

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


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.

| - | United Kingdom.* |
| :---: | :---: |
| I. <br> Cost of Materials Used <br> Amount Paid to Other Firms for Work Given Out to | $\stackrel{\substack{\mathfrak{f} \\ 1,332,00 \\ 13,000}}{ }$ |
| Total ... ... ... ... .. | 1,345,000 |
| Value of Output:- <br> Goods Made for Sale <br> Work Done for the Trade | $\begin{array}{r} 2,349,000 \\ 24,000 \end{array}$ |
| Total .. ... ... ... | 2,373,0¢0 |
| Value of Output less Cost of Materials Used and Amount Paid to Other Firms for Work Given Out to them. | 1,028,000 |

Ivory, Bone, Horn, Picture Frame, and Fancy Articles Trades-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 "anuary, 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. |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Under } \\ 18 \text { years } \\ \text { of age. } \end{gathered}$ | $\begin{aligned} & \text { Over } \\ & 18 \text { years } \\ & \text { of age. } \end{aligned}$ | Total. | $\begin{array}{\|c} \text { Under } \\ \text { 18 years } \\ \text { of age. } \end{array}$ | $\begin{gathered} \text { Over } \\ \text { 18 years } \\ \text { of age. } \end{gathered}$ | Total. | $\begin{array}{\|c\|} \text { Under } \\ 18 \text { years } \\ \text { of age. } \end{array}$ | $\begin{aligned} & \text { Over } \\ & 18 \text { years } \\ & \text { of age. } \end{aligned}$ | Total. |
| $\underset{\text { Wage-earners }}{\text { United }}$ :- | 1,328 | 5,375 | 6,703 | 1,743 | 3,386 | 5,129 | 3,071 | 8,761 | 11,832 |
| Salaried Persons | 78 | 1,074 | 1,152 | 46 | 245 | 291 | 124 | 1,319 | 1,443 |
| Total .. | 1,406 | 6,449 | 7,855 | 1,789 | 3,631. | 5,420 | 3,195 | 10,080 | 13,275 |

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

|  |  |  |  |  |  |  | Males. | Females. | Males and <br> Females. |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :---: | :---: | :---: |
| UNITED KINGDOM* | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | 120 | 89 | 209 |

Ivory, Bone, Horn, Picture Frame, and Fancy Articles Trades-continued.

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

| - |  |  | United Kingdom.* |
| :---: | :---: | :---: | :---: |
| Steam Engines, Reciprocating <br> Internal Combustion Engines (gas, oil, \&c.) <br> Water Power | $\cdots$ | $\ldots$ | Horse-Power. <br> 1,773 <br> 909 <br> 113 |
| Total ... ... ... | ... | $\cdots$ | 2,795 |
| Capacity of Dynamos driven by :Steam Engines, Reciprocating Other Power |  | $\ldots$ | Kilowatts. 495 35 |
| Total ... ... |  |  | 530 |

c.-Amount of Electricity Purchased.

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

| - | United Kingdom.* |
| :---: | :---: |
| Amount of Electricity Purchased ... ... ... ... | Board of Trade Units. 296,000 |

* In order to avoid the possible disclosure of particulars relating to certain firms, figures can only be shown for the
United Kingdom as a whole.

TABLE IV.-CAPACITY OF ENGINES OWNEI AND AMOUNT OF ELECTRICITY PURCHASED.
a.-Capactity 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 Value of <br> Ontput. | Number of <br> Persons Employed. | Total Capacity <br> of Engines. |
| :--- | :--- | :--- | :--- | :--- | :---: | :---: | :---: |

[^2]
## MUSICAL INSTRUMENT TRADES．

TABLE I．－OUTPUT．
Note．－The figures of quantity in this Table are given to the nearest hundred in each case，and those of value to the nearest thousand．Amounts lower than fifty for quantity and five hundred for value are not shown．
$\qquad$

Harmonium and American Organs．．．
Pianofortes
Player Pianos and Piano Players
Pipe Organs，including additions to existing Organs
Parts and Accessories of Organs，Pianofortes，Harmoniums，\＆e
ther Musical Instruments，Parts，and Accessories ：－
Percussion Instrument
Instruments，not separately distinguished
Talking Machines and Records for same
Other Products
Total Value of Goods Made
Amount Received for Repairs，including Upkeep and Tuning
Amount Received for Work Done for the Trade
Total value of Goods Made and Work Done－ Nited King dom Total Value，England and Wales
Total Value，Scotlan
Total Value，Ireland

| Quantity． | Value． |
| :---: | :---: |
| Number． | £ |
| $\begin{array}{r} 4,300 \\ 58,000 \\ 500 \end{array}$ | $\begin{array}{r} 30,000 \\ 972,000 \\ 23,000 \\ 275,000 \end{array}$ |
| ${ }_{\text {（Vecorded by }}$ Value only．） | $\begin{array}{r} 73,000 \\ 15,000 \\ 9,000 \\ 9,000 \\ 69,00 \\ 20,000 \end{array}$ |
|  | 1，707，000 |
| $\left\{\begin{array}{l} \text { (Recorded by } \\ \text { Value only. }) \end{array}\right.$ | $\begin{array}{r} 151,000 \\ 7,000 \end{array}$ |
| 二 | $\begin{array}{r} 1,865,000 \\ 1,837,000 \\ 19,000 \\ 9,000 \end{array}$ |

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

| － | ${ }_{\substack{\text { England and } \\ \text { Wales．}}}^{\text {a }}$ | Sootland． | Ireland． | United Kingdom． |
| :---: | :---: | :---: | :---: | :---: |
| I． Cost of Materials Used $\ldots \ldots$ Amount Paid to Other Firms for Work Given | $\begin{gathered} f 78,000 \\ 22,000 \end{gathered}$ | $\begin{aligned} & £ \\ & 6,000 \\ & 1,000 \end{aligned}$ | $\stackrel{£}{2,000}$ | $\begin{gathered} f \\ 786,000 \\ \gtrless 3,000 \end{gathered}$ |
| Total | 800，000 | 7，000 | 2，000 | 809，000 |
| Value of Output：－ Goods Made ．． Repairs and Work Done for the Trade ．．． | $\begin{array}{r} 1,690,000 \\ 147,000 \end{array}$ | $\begin{array}{r} 11,000 \\ 8,000 \end{array}$ | $\begin{aligned} & 6,000 \\ & 3,000 \end{aligned}$ | $\begin{array}{r} 1,707,000 \\ 158,000 \end{array}$ |
| Total | 1，837，000 | 19，000 | 9，000 | 1，865，000 |
| Value of Output less Cost of Materials Used and Amount Paid to Other Firms for Work Given Ont to them． | 1，037，000 | 12，000 | 7，000 | 1，056，000 |

＊In order to avoid the possible disclosure of particulars relating to certain firms，figures as to the several classes of
output tan only be shown for the United Kingdom as a whole ；separate totals are，however，shown for each Division of output can only be sho
the United Kingdom．

Musical Instrument 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 woric 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． |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Under } \\ & \text { 18 years } \\ & \text { of age. } \end{aligned}$ | $\begin{aligned} & \text { Over } \\ & 18 \text { years } \\ & \text { of age. } \end{aligned}$ | Total． | Under 18 years of age． | $\begin{aligned} & \text { Over } \\ & 18 \text { years } \\ & \text { of age. } \end{aligned}$ | Total． | Under 18 years of age． | $\begin{aligned} & \text { Over } \\ & 18 \text { years } \\ & \text { of age. } \end{aligned}$ | Total． |
| England and Wales：－ Wage－earners Salaried Persons | $\begin{array}{r} 1,207 \\ 46 \end{array}$ | $\begin{array}{r} 7,550 \\ 614 \end{array}$ | $\begin{array}{r} 8,757 \\ 660 \end{array}$ | $\begin{aligned} & 95 \\ & 12 \end{aligned}$ | $\begin{array}{r} 309 \\ 68 \end{array}$ | $\begin{gathered} 404 \\ 80 \end{gathered}$ | $\begin{array}{r} 1,302 \\ 58 \end{array}$ | $\begin{array}{r} 7,859 \\ 682 \end{array}$ | $\begin{array}{r} 9,161 \\ 740 \end{array}$ |
| Total | 1，253 | 8，164 | 9，417 | 107 | 377 | 484 | 1，360 | 8，541 | 9，901 |
| Scotland ：－ <br> Wage－earners Salaried Persons | 10 | $\begin{aligned} & 9 \% \\ & 13 \end{aligned}$ | $\begin{array}{r} 102 \\ 13 \end{array}$ | 1 3 | $\begin{array}{r} 11 \\ 2 \end{array}$ | 12 | 11 3 | $\begin{array}{r} 103 \\ 15 \end{array}$ | 114 18 |
| Total ．．． | 10 | 105 | 115 | 4 | 13 | 17 | 14 | 118 | 132 |
| Ireland ：－ <br> Wage－earners Salaried Persons | 11 | $\begin{array}{r}54 \\ 3 \\ \hline\end{array}$ | 65 3 | 二 | 二 | 二 | 11 | $\begin{array}{r}54 \\ 3 \\ \hline\end{array}$ | 65 3 |
| Total | 11 | 57 | 68 | － | － | － | 11 | 57 | 68 |
| United Kingdom：－ Wage－earners Salaried Persons | $\begin{array}{r} 1,228 \\ 46 \end{array}$ | $\begin{array}{r} 7,696 \\ 630 \end{array}$ | $\begin{array}{r} 8,924 \\ 676 \end{array}$ | $\begin{aligned} & 96 \\ & 15 \end{aligned}$ | $\begin{array}{r} 320 \\ 70 \end{array}$ | $\begin{array}{r} 416 \\ 85 \end{array}$ | $\begin{array}{r} 1,324 \\ 61 \end{array}$ | $\begin{array}{r} 8,016 \\ 700 \end{array}$ | $\begin{array}{r} 9,340 \\ 761 \end{array}$ |
| Total | 1，274 | 8，326 | 9，600 | 111 | 390 | 501 | 1，385 | 8，716 | 10，101 |

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 Value Output． | Number of Persons Employed． | $\begin{gathered} \text { Total } \\ \text { Capacity of } \\ \text { Engines. } \end{gathered}$ | $\begin{array}{\|c} \text { Gross Value } \\ \text { of } \\ \text { otput. } \end{array}$ | Number of Persons Employed． | Total Capacity Engines． |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Evgland and Wales． |  |  | Scotland． |  |  |
| Factories with their own Engines Factories renting their Power Workshops（not using Power） | $\begin{gathered} £ \\ 1,401,000 \\ 30,00 \\ 43,, 000 \end{gathered}$ | $\begin{array}{r} 7,427 \\ 172 \\ 2,302 \end{array}$ | Horse－ <br> Power． <br> 2，173 <br> — | $\begin{gathered} £ \\ \frac{13,000}{\overline{6}, 000} \end{gathered}$ | $\begin{array}{r} 66 \\ -\quad 66 \end{array}$ | Horse－ <br> Power． $-5$ $-$ |
| Total | 1，837，000 | 9，901 | 2，173 | 19，000 | 132 | 5 |
|  | Ireland． |  |  | United Kingdom． |  |  |
| Factories with their own Engines ．．． Factories renting their Power Workshops（not using Power） | $\begin{aligned} & £ \\ & 1,000 \\ & 8,000 \end{aligned}$ | $\begin{array}{r} 10 \\ -58 \end{array}$ | Horse－ Power． $\qquad$ | $\begin{gathered} £ \\ 1,415,000 \\ 31,00 \\ 417,000 \end{gathered}$ | $\begin{array}{r} 7,503 \\ 172 \\ 2,426 \end{array}$ | Horse－ <br> Power． 2，178 |
| Total | 9，000 | 68 | ＊ | 1，865，000 | 10，101 | 2，178 |

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

| -- | $\underset{\substack{\text { England and } \\ \text { Wales. }}}{\text { and }}$ | Scotland. | Ireland. | United Kingdom |
| :---: | :---: | :---: | :---: | :---: |
| Steam Engines, Reciprocating <br> Internal Combustion Engines (gas, oil, \&c.) <br> Water Power | Horse-Power. $\begin{array}{r} 771 \\ 1,397 \end{array}$ | Horse-Power. $-5$ | Horse-Power. | Horse-Power. $\begin{array}{r} 771 \\ 1,402 \end{array}$ $5$ |
| Total | 2,173 | 5 | - | 2,178 |
| Capacity of Dynamos driven by :Steam Engines, Reciprocating ... Other Power | Kilowatts. 176 128 | Kilowatts. <br> 二 | Kilowatts.二 | Kilowatts. 176 128 |
| Total ... | 304 | - | - | 304 |

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 |
| :---: |
| Kingdom. |

BILLIARD TABLE AND SPORTS REQUISITES TRADES.

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

| - | $\begin{aligned} & \text { United } \\ & \text { Kingdom.* } \end{aligned}$ |
| :---: | :---: |
| Billiard and Bagatelle Tables and Accessories (including Billiard Room Furniture and Fittings, Setting-up and Repair Work, and value added in Re-fitting Second-hand Tables). | $\stackrel{£}{\stackrel{£}{337,000}}$ |
| Requisites for Outdoor and Athletic Games and Sports (i.e., for Cricket, Tennis, Fishing, Golf, Gymnastics, \&c.), including Repair Work. Other Products | 772,000 40,000 |
| Total Value of Goods Made and Repairs | 1,149,000 |
| Amount Received for Work Done for the Trade | 12,000 |
| Total Value of Goods Made and Work Done:- |  |
| Total Value, United Kingdom | 1,161,000 |
| Total Value, England and Wales and Ireland $\dagger$ | 1,020,000 |
| Total Value, Scotland ... ... | 141,000 |

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.

|  | England and Wales and Ireland. $\dagger$ | Scotland. | United Kingdom. |
| :---: | :---: | :---: | :---: |
| I. <br> Cost of Materials Used ... <br> Amount Paid to Other Firms for Work Given Out to them... | $\begin{array}{r} \mathfrak{£} \\ 43,000 \\ 2,000 \end{array}$ | $\begin{gathered} f \\ 64,000 \\ 1,000 \end{gathered}$ | $\begin{gathered} f \\ 500,000 \\ 3,000 \end{gathered}$ |
| Total | 438,000 | 65,000 | 503,000 |
| II. <br> Value of Outpat:Goods Made for Sale (including Repairs) Work Done for the Trade .. | $\begin{array}{r} 1,008,000 \\ 12,000 \end{array}$ | 141,000 | $\begin{array}{r} 1,149,000 \\ 12,000 \end{array}$ |
| Total | 1,020,000 | 141,000 | 1,161,000 |
| III. <br> Value of Output less Cost of Materials Used and Amount Paid to Other Firms for Work Given Out to them. | 582,000 | 76,000 | 658,000 |
| * In order to avoid the possible disclosure of particulars relating to certain firms, figures as to the several classes 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 Urited Kingdom. <br> $\dagger$ 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 firms in Ireland. |  |  |  |
| 24678 |  |  | 3 F 4 |

Billiard Table and Sports Requisites Trades-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


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

|  | $\begin{gathered} \text { Gross } \\ \text { Value } \\ \text { of } \\ \text { Output, } \end{gathered}$ | $\begin{aligned} & \text { Number } \\ & \text { ofrsons } \\ & \text { Perso } \\ & \text { pomed. } \\ & \text { ployed. } \end{aligned}$ | $\begin{gathered} \text { Total } \\ \text { Capacity } \\ \text { of } \\ \text { Engines. } \end{gathered}$ | Gross Value Output |  | $\begin{gathered} \text { Total } \\ \text { Capacity } \\ \text { of } \\ \text { Engines. } \end{gathered}$ | $\begin{gathered} \text { Gross } \\ \text { Value } \\ \text { of } \\ \text { Output. } \end{gathered}$ |  | Total Capacity and of <br> Engines. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | England and Wales and Ireland.* |  |  | Scotland. |  |  | United Kingdom. |  |  |
| Factories with their own Engines. | $\stackrel{£}{\stackrel{£}{801,000}}$ | 4,268 | HorsePower. 1,020 | $\stackrel{£}{79,000}$ | 505 | HorsePower. 225 | $\stackrel{£}{880,000}$ | 4,773 | HorsePower. 1,245 |
| Factories renting their Power. | 1,000 | 7 | - | - | - | - | 1,000 | 7 | - |
| Workshops (not using Power). | 218,000 | 1,195 | - | 62,000 | 535 | - | 280,000 | 1,730 | - |
| Total | 1,020,000 | 5,470 | 1,020 | 141,000 | 1,040 | 225 | 1,161,000 | 6,510 | 1,245 |

[^3]Billiard Table and Sports Requisites 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.* | Scotland. | ( $\begin{gathered}\text { United } \\ \text { Kingdom. }\end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| Steam Engines, Reciprocating ... <br> Internal Combustion Engines (gas, oil, \&c.) <br> Water Power |  | $\begin{gathered} \text { Horse-Power. } \\ 387 \\ 633 \\ - \end{gathered}$ | $\begin{gathered} \text { Horse-Power. } \\ 46 \\ 164 \\ 15 \end{gathered}$ | $\begin{gathered} \text { Horse-Power. } \\ 433 \\ 797 \\ 15 \end{gathered}$ |
| Total |  | 1,020 | 225 | 1,245 |
| Capacity of Dynamos driven by :Steam Engines, Reciprocating Other Power ... | $\ldots$ | Kilowatts. 100 78 | Kilowatts. <br> 3 | $\begin{gathered} \text { Kilowatts. } \\ 100 \\ 81 \end{gathered}$ |
| Total ... | ... | 178 | 3 | 181 |

c.-Amount of Electricity Purchased.

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

| - | England and and Ireland and Ireland.* | Scotland. | United. Kingdom. |
| :---: | :---: | :---: | :---: |
| Amount of Electricity Purchased | Board of Trade Units. 165,000 | Board of Trade Units. 40,000 | Board of Trade Units. 205,000 |

* 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 firms in Ireland.


## TOYS AND GAMES TRADES.

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

| - | Great Britain.* |
| :---: | :---: |
| Dolls (Rag and Dressed) <br> Other Toys and Games <br> Other Products ... | $\begin{gathered} f \\ 18,000 \\ 171,000 \\ 25,000 \end{gathered}$ |
| Total Value of Goods Made <br> Amount Received for Work Done for the Trade ... | $\begin{array}{r} 214,000 \\ 2,000 \end{array}$ |
| Total Value of Goods Made and Work Done. | 216,000 |

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.

| - | Great Britain.* |
| :---: | :---: |
| Cost of Materials Used <br> Amount Paid to Other Firms for Work Given Out to them | $\begin{array}{r} \mathfrak{£} \\ 104,000 \\ 2,000 \end{array}$ |
| Total | 106,000 |
| Value of Output:- <br> Goods Made for Sale <br> Work Done for the Trade | $\begin{array}{r} 214,000 \\ 2,000 \end{array}$ |
| Total | 216,000 |
| Value of Output less Cost of Materials Used and Amount Paid to Other Firms for Work Given Out to them. | 110,000 |

## TABLE III.-PERSONS EMPLOYED.

a.-Average Numbers 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 number "ordinarily" employed in establishments where no power is used.

|  | Males. |  |  | Females. |  |  | Males and Females. |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Under } \\ 18 \text { years } \\ \text { of age. } \end{gathered}$ | $\begin{gathered} \text { Over } \\ 18 \text { years } \\ \text { of age. } \end{gathered}$ | Total. | Under 18 year of age. | $\begin{gathered} \text { Over } \\ \text { O y years } \\ \text { of age. } \end{gathered}$ | Total. | $\begin{array}{\|c\|c} \text { Under } \\ \text { 18 years } \\ \text { of age. } \end{array}$ | $\begin{aligned} & \text { Over } \\ & 18 \text { years } \\ & \text { of age. } \end{aligned}$ | Total. |
| Great Britain*:-Wage-earners Salaried Persons | $\begin{array}{r} 230 \\ 4 \end{array}$ | $\begin{array}{r} 466 \\ 99 \end{array}$ | $\begin{aligned} & 696 \\ & 103 \end{aligned}$ | 447 7 | $\begin{array}{r} 573 \\ 36 \end{array}$ | $\begin{array}{r} 1,020 \\ 43 \end{array}$ | $\begin{array}{r} 677 \\ 11 \end{array}$ | $\begin{array}{r} 1,039 \\ 135 \end{array}$ | $\begin{array}{r} 1,716 \\ 146 \end{array}$ |
| Total | 234 | 565 | 799 | 454 | 609 | 1,063 | 688 | 1,174 | 1,862 |

[^4]Toys and Games 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. |  |
| :--- | :---: | :--- | :--- | :--- | :--- | :--- | :---: | :---: | :---: |
| GREAT BRITAIN* | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | 3 | 62 | 65 |

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.

| G_ |  |  |  |
| :--- | :--- | :--- | :---: | :---: | :---: | :---: | :---: | :---: |




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

## WIGMAKING TRADE.

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


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

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


TABLE III.-PERSONS EMPLOYED.
Number of Persons "Ordinarily" Employed in Year of Return.

|  | Males. |  |  | Females. |  |  | Males and Females. |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Under 18 years of age. | Over 18 years of age. | Total. | Under 18 years of age. | Over 18 years of age. | Total. | Under 18 years of age. | Over <br> 18 years of age. | Total. |
| Gienat Britain* :- <br> Wage-earners Salaried Persons $\qquad$ | 21 1 | $\begin{array}{r} 152 \\ 65 \end{array}$ | 173 | 227 2 | $\begin{array}{r} 360 \\ 42 \end{array}$ | $\begin{array}{r} 587 \\ 44 \end{array}$ | $\begin{array}{r} 248 \\ 3 \end{array}$ | $\begin{aligned} & 512 \\ & 107 \end{aligned}$ | 760 110 |
| Total ... | 22 | 217 | 239 | 229 | 402 | 631 | 251 | 619 | 870 |

[^5]
## TABLE IV.-CAPACITY OF ENGINES OWNED.

No Engine Power.


[^0]:    About 829,000 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

[^1]:    About 296,000 Board of Trade units of electricity were purchased by manufacturers for power and lighting purposes. This figure includes estimates made in the Census 24678

[^2]:    *nited Kin order to avoid the

[^3]:    * The figures for England and Wales and for
    particulars relatiog to the few firms in Ireland.

[^4]:    Great $\frac{\text { In order to avoid the pritain ass a whole }}{}$ possible disclosure of particulars relating to certain firms, figures can only be shown for

[^5]:    * In order to avoid the possible disclosure of particulars relating to certain firms, figures can only he shown for Great Britain as a whole.

