THE FINISHED BRASS TRADES.

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Introductory.*

The tables on pages 413 to 416 are based on returns received from firms in Great Britain and Northern Ireland whose business in 1924 consisted wholly or mainly in the manufacture of finished articles of brass. The number of such separate returns was 953. About 80 firms to which schedules were sent did not furnish returns, but these firms for the most part had very small establishments, and they included a number which had ceased operations before the end of the censal year. On the basis of the information available it is estimated that they did not employ more than 250 persons in all, and that their total net output probably did not exceed £25,000.

Summary of results.—The following table shows the main results of the Censuses of 1924, 1912 and 1907, comparisons between the figures for the three years being subject to the qualifications mentioned in the next paragraph.

^{*} See also the Notes on pages vii-xv.

| Particulars. | Unit. | 1924. | 1912. | 1907. |
|---|----------|-----------------|----------------|----------------|
| Value of goods made and work done (gross output) | £'000 | 10,486 4,461 | 6,887 3,261 | 6,797 3,314 |
| Paid for work given out to other firms Net output | " | 88 5.937 | 3,602 | 3,454 |
| Average number of persons employed Net output per person employed | No. £ | 33,436 178 | 38,429 | 38,916 89 |
| Mechanical power available: Prime movers | H.P. | 10,548 | 12,693 | 12,865 |
| Electric motors driven by purchased electricity | | 16,305 | 3,589 | (not |
| ciccuraty | ,, | 10,000 | 0,000 | recorded |

Qualifications affecting comparisons.—In considering the above table and the other tables in this Report which show figures for the different censal years, the following qualifications should be borne in mind:—

(1) The comparability of figures relating to value or cost is affected by the changes which have taken place in the general purchasing power of money.

(2) The Censuses of 1907 and 1912 covered Great Britain and the whole of Ireland, but that of 1924 applied only to Great Britain and Northern Ireland. The exclusion of Southern Ireland in 1924 does not seriously affect the comparability of the figures since, according to the Census of Production taken by the Government of the Irish Free State in respect of the year 1926, the production of brass goods was shown as part of a very comprehensive heading, covering a total output valued at only £171,000.

(3) The Censuses of 1907 and 1924 extended to all firms, however small, but in 1912 firms employing not more than five persons (excluding the proprietors) were merely required to state the average number of persons employed by them in the year. According to the information so furnished, the number of persons employed in the establishments thus excluded was 694, or 1·8 per cent. of the number employed by the remaining firms, as shown in the above table. Moreover, correspondence on defective returns for 1912 had not been completed when the war compelled suspension of this work. In these circumstances detailed information for 1912 is not given in the remainder of this report. The resulting defects in the aggregate figures given above are probably not important.

(4) There are certain differences of classification which affect comparisons between the results for the three years, the articles concerned being gas meters, close-joint tubes and cased tubes. In 1907 and 1912 the output of gas meters was returned on the schedule for the Finished Brass Trades, whereas in 1924 it was returned mainly on the schedule for the Light

Castings Trade.* In 1907 close-joint tubes and cased tubes were treated as products of the Finished Brass Trades; in 1912, a separate schedule was issued for the Close-joint Tube and Cased Tube Trades, but the information supplied has, for convenience, been incorporated with the results for the Finished Brass Trades; in 1924, however, the output of close-joint tubes and cased tubes was returned on the schedule for the Wrought Iron and Steel Tube Trade.†

Value of output and cost of materials.—The figures in the above table representing the value of goods made and work done, and the cost of materials used, are the aggregates of the figures recorded by the firms that made returns, and, for the reasons explained in paragraphs (i) and (ii) on pages xii and xiii, they may over-state the value of the output of, and the cost of materials used by, the Finished Brass Trades considered as a whole. The matter is discussed on page 409, where it is estimated that the value, free from duplication, of the output of these trades in 1924 lay between £9,900,000 and £10,400,000, and the cost of the materials purchased from sources outside the trade and worked up into its products lay between £4,000,000 and £4,450,000.

Production.

The detailed information relating to the output in 1924 of firms that made their returns on schedules for the Finished Brass Trades is summarised in Table II on page 414.

Finished brass goods.—The table given below shows, for 1924 and 1907, the aggregate net selling value of the different classes of finished brass goods recorded and, with the exception of the last two headings, includes the value of similar goods, so far as they can be identified, returned on schedules for other trades. The amounts so included are £534,000 for 1924 and £867,000 for 1907.

Brass is used extensively in engineering and other metal-working establishments outside the Finished Brass Trades, and a large proportion of the finished brass goods produced in these establishments has escaped record as such, either through being returned with other goods without distinction as to the kind of metal used in their manufacture or through forming part of larger units such as lamps and lighting sets for motor-cars, complete motor-cars, heating, lighting, water and sanitary appliances, etc., all of which goods were returned on schedules for other trades. It is probable also that the output recorded in the Non-ferrous Metals (Smelting, Rolling and Casting) Trades ‡ contains certain quantities of finished brass goods but the lack of any means of identifying such goods has led to their omission from the following table. For these reasons, this table should not be considered as furnishing a complete summary of the

production of finished brass goods, and the report as a whole, including the tables on pages 413 to 416, should be regarded as relating only to those firms that were wholly or mainly engaged in the manufacture of such goods.

| Finished brass goods. | 1924. | 1907. | | |
|--|------------------|---------------------------------------|--|--|
| na rest est servicio edite no resentat e som est | Selling value. | | | |
| Control of the Contro | €'000 | £'000 | | |
| Engineers', mechanicians' and plumbers' goods | 2,675 | 1,942 | | |
| Builders' and cabinet-makers' goods (including | | Total T | | |
| house, shop, ship, office, hearth and church | A Rolls and Roll | Charmon Self | | |
| furniture) | 2,559 | 1,833 | | |
| Electric lighting accessories | 493 | Julia de 18 | | |
| amps and fittings for lighting (not electric) | | 1,706 | | |
| purposes | 438 | | | |
| Carriage and harness goods | 40 | 98 | | |
| ittings for motor cars and motor chassis | 447 | 1 3 3 3 4 3 5 4 3 5 5 | | |
| Railway and tramway carriage fittings | 54 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | |
| offin furniture | 192 | 156 | | |
| Other and unspecified finished brass goods | 1,206 | 142 | | |
| crap, dust and other waste | 154 | 99 | | |
| _ | | | | |
| TOTAL—FINISHED BRASS GOODS | 8,258 | 5,976 | | |

In addition to the above, the sum of £223,000 was returned as received for repair work in 1924, the corresponding figure for 1907 being £44,000. Of the total output of finished brass goods shown in the table (except scrap, etc.) and valued at £8,104,000, engineers', mechanicians', and plumbers' goods formed 33 per cent., builders' and cabinet makers' goods, 31.5 per cent., and lighting accessories, 11.5 per cent., as compared with 28.2, 26.5, and 24.8 per cent. respectively in 1907.

It is not possible to make accurate comparisons of the magnitude of production in the two years, since the quantities of goods made were not recorded in the Census returns. Apart from the changes which occurred in the level of prices, the incompleteness of the recorded output in each year makes any comparison extremely hazardous. It is probable, however, that manufacturers were, to a greater extent in 1924 than in 1907, producing their own brass goods for assembling in other units of output rather than purchasing them from manufacturers of brass goods, and that, consequently, as explained above, the recorded output is even less complete in 1924 than in 1907. It may also be noted that the price of copper, which is the preponderating metal in the composition of brass, was considerably lower in 1924 than in 1907.

Other products.—The following table shows, for 1924 and 1907, the value of the other goods produced by firms that made their returns on schedules for the Finished Brass Trades. These goods, being of kinds mainly produced in other trades, are dealt with in the reports on those trades. It should be borne in mind, however, that, in 1907, the main output of gas meters, cased tubes and iron and steel tubes (including close-joint tubes), was recorded on the schedules for the Finished Brass Trades.

| Kind of goods. | 1924. | 1907. |
|---|--|-----------------|
| Bedsteads and parts, of brass Brass nails and rivets Other manufactures of brass (castings, ingots, etc.) Finished goods of copper , , , , iron and steel , , , , other and unspecified metals Cas meters Cared tubes Cron and steel tubes (including close-joint tubes) Other goods made | Sellin £'000 78 25 492 391 432 1,013 13 — 13 | g value. £'000 |
| TOTAL | 2,457 | 1,586 |

^{*} Including some copper alloys (other than brass), cast.

Work done for the trade.—Firms that made their returns on schedules for the Finished Brass Trades stated that they received £82,000 for work done for the trade in 1924, but as the amount paid to other firms in 1924 for work given out to them was recorded as £88,000, the former amount may be wholly or partly duplicated in the value of the goods made by the firms that paid this £88,000. The amount returned as received for work done in 1907 was £58,000.

Value of output free from duplication.—The only items in the gross output of £10,486,000 in which duplication may be involved are ingot brass (£14,000), rough brass castings (£388,000), rough brass forgings (£90,000), and work done for the trade (£82,000). The small quantity of ingot brass probably represents makers' additions to stocks, but the castings and forgings may have been sold either to firms that made returns on schedules for the Finished Brass Trades or to firms outside those trades, or they may have been added to stock. Including the possible duplication represented by the £82,000 returned as received for work done for the trade, the amount of duplication may have been as great as £560,000, but it was probably somewhat less. The value, free from duplication, of the output in 1924 of the Finished Brass Trades may thus be estimated as lying between £9,900,000 and £10,400,000 in 1924. The corresponding figure for 1907 was estimated at about £6,758,000.

Cost of materials and work given out.—The cost of materials used by firms that made their returns on schedules for the Finished Brass Trades was returned as £4,461,000 for 1924, a sum which, by the exclusion of purchases of the products of other firms in the same trades, may be reduced to a figure lying between £4,000,000 and £4,450,000. The corresponding figure for 1907 was £3,304,000.

The amount returned as paid to other firms for work given out to them was £88,000 for 1924 and £58,000 for 1907.

Net output.—The net output in 1924 of the firms that made their returns on schedules for the Finished Brass Trades (whose gross

output was valued as £10,486,000) was £5,937,000, that sum representing, without duplication, the total amount by which the value, as delivered, of the aggregate output exceeded the cost, as purchased, of the materials used and the amount paid to other firms for work given out to them.

The net output per head of persons employed in the censal year 1924 was £178, as compared with £89 in 1907.

Kinds of materials used.—In response to a request for voluntary information regarding the quantities of certain materials used by manufacturers during 1924, firms that recorded a gross output of £3,238,000, or 30.9 per cent. of the gross output of the Finished Brass Trades as a whole, stated that they used the following materials in 1924:—

| | | | | Tons. |
|--------|----------|------------|---|------------|
| Copper | sarerLes | · comm | | 30,500 |
| Nickel | | | F | 1,100 |
| Tin | 100 | Se • SS 50 | | 3,600 |
| Zinc | | | | 12,600 |

The output of the firms that gave this information was as follows:—

| Goods made for sale or for stock and work done. | Value of output of firms giving information. | Proportion of total output of trade. |
|--|--|--------------------------------------|
| The two stocking on some and the street of the state of t | ₹'000 | Per cent. |
| Finished brass goods :— | | G WENT AT |
| Engineers', mechanicians' and plumbers' goods | 994 | 40.1 |
| Builders' and cabinet-makers' goods | 514 | 22.7 |
| Other and unspecified finished brass goods | 920 | 31.6 |
| Other manufactures of brass (castings, ingots, etc.) | 145 | 29.5 |
| Scrap, dust and other waste | 46 | 29.9 |
| Other goods made | 547 | 29.0 |
| Repair work | 59* | 26.5 |
| Work done for the trade | 13* | 15.9 |
| TOTAL | 3,238 | 30.9 |

* Amount received for work done.

The sample is too small to permit general conclusions to be drawn from it.

Exports and imports.—Exports of manufactures of brass and alloys of copper, not elsewhere specified (i.e., excluding sheets, strip, wire, rods, and tubes) were 5,955 tons, valued at £1,469,800, f.o.b., in 1924, and retained imports were 2,394 tons, valued at £376,000, c.i.f. Comparable figures for 1907 are not available, as sheets, strip, wire, rods, and tubes were in that year included with other manufactures.

Wages in 1924.

Under the Census of Production Act, 1906, the powers of the Board of Trade to require information do not extend to particulars of the amount of wages paid, and, consequently, no information

on this head was secured in connexion with the Census of 1924. As a result, however, of the voluntary enquiry undertaken by the Ministry of Labour into wages and hours in the United Kingdom in 1924, information was obtained as to the total wage-bill of a group of firms in the Finished Brass Trades, which made returns both to the Ministry of Labour and to the Census of Production office. According to the Census records this group of firms employed, in the week ended 18th October, 1924, 16,172 operatives, or 54 per cent. of the total of 29,911 operatives for the trades as a whole, and their net output totalled £3,172,000, or 53 per cent. of the aggregate net output of £5,937,000 for the trades as a whole. The total wage-bill of these firms, as returned to the Ministry of Labour, was £1,712,000, representing about 54 per cent. of their aggregate net output.

Employment.

The detailed information relating to employment in 1924 is summarised in Table III on page 415. The following table sets out certain particulars for that year, together with those relating to 1907. For the purpose of this comparison, the average numbers of operatives of each sex returned for 1924 have been divided between the two age-groups in the proportions shown by the data relating to the week ended 18th October.

| The same of the sa | Males. | | Females. | | Males and females. | |
|--|--------------|-----------------|--------------|----------------|--------------------|-----------------|
| Average number. | Under 18. | All ages. | Under 18. | All ages. | Under 18. | All ages. |
| 1924. Operatives | 4,065 227 | 20,300 2,807 | 2,578 309 | 8,958 1,371 | 6,643 536 | 29,258 4,178 |
| Total | 4,292 | 23,107 | 2,887 | 10,329 | 7,179 | 33,436 |
| 1907. Wage earners | 5,066 349 | 27,575 3,200 | 1,710 227 | 7,301 840 | 6,776 576 | 34,876 4,040 |
| Total | 5,415 | 30,775 | 1,937 | 8,141 | 7,352 | 38,916 |

The numbers of operatives recorded month by month in 1924 ranged from 1,173 below the average, in January, to 1,200 above the average, in December, and advanced from month to month except during July and August (see Table III B., page 415).

Mechanical Power.

The detailed information relating to mechanical power in 1924 is summarised in Table IV on page 416. The following table sets out the particulars for 1924 and 1907 relating to the capacity and kinds of *prime movers* and the capacity of *electric generators* installed.

| AND TO MAKE DESIGNATION OF | | 1924. | | 1907. |
|---|--------------------|---------------------|--------------|----------|
| Power equipment. | Ordinarily in use. | In reserve or idle. | Total. | Total. |
| and the contract article are accurate | H.P. | H.P. | H.P. | H.P. |
| PRIME MOVERS:— Reciprocating steam engines Steam turbines | 1,076 193 | 54 96 | 1,130 289 | 3,759 |
| Gas engines Petrol and light oil engines | 7,670 5 | 872 | 8,542 5 | 9,093 |
| Heavy oil engines Water power | 552 30 | | 552 30 | 13 |
| TOTAL | 9,526 | 1,022 | 10,548 | 12,865 |
| aregueign toff to they gen | Kw. | Kw. | Kw. | Kw. |
| ELECTRIC GENERATORS :— Driven by— | | | | raino ra |
| Reciprocating steam engines | 112 | 34 | 146 | 342 |
| Steam turbines Gas engines | 144 391 | 72 19 | 216 410 | _ |
| Petrol and light oil engines | | | 410 | |
| Heavy oil engines | 61 25 | | 61 25 | 307 |
| TOTAL | 733 | 125 | 858 | 649 |

The capacity of *electric motors* recorded in 1924 was as shown below:—

| Electric motors. | Ordinarily in use. | In reserve or idle. | Total. |
|--|--------------------|---------------------|-----------------|
| Driven by— | H.P. | H.P. | H.P. |
| Electricity generated in own works Purchased electricity | 1,253 14,511 | 309 1,794 | 1,562 16,305 |

Corresponding information was not required for 1907. The total number of Board of Trade units of electricity purchased for power and lighting purposes in that year was returned as 1,164,000.

TABLES.

I.—Summary of Results.

| Particulars. | Unit. | England and Wales and N. Ireland.* | Scotland. | United Kingdom. |
|--|--------------------------|---|--|---|
| Value of goods made and work done (gross output) | £'000 ,,, No. £ | 10,067 4,253 87 5,727 32,212 178 | 419 208 1 210 1,224 172 | 10,486 4,461 88 5,937 33,436 178 |
| Prime movers Electric motors driven by pur- | H.P. | 10,198 | 350 | 10,548 |
| chased electricity | ,, | 15,376 | 929 | 16,305 |

^{*} In order to avoid the possible disclosure of information relating to individual firms, the figures for Northern Ireland have been combined with those for England and Wales.

II.—Production.

| Net selling value. Net selling value. (1000. 1200. 1 | | N. C. Transport Black | | | |
|--|--|-------------------------------|-----------|--------------------|--|
| Engineers', mechanicians' and plumbers' goods: Of brass | Output sold or added to stock and work don | e. | Wales and | Scotland. | |
| Engineers', mechanicians' and plumbers' goods: Of brass | | | No | t colling wal | 110 |
| Engineers', mechanicians' and plumbers' goods: Of brass | | | | | |
| Of brass 2,335 141 2,476 Of copper * * 186 Of iron and steel 87 ‡ 87 Of other and unspecified metals * * 94 Builders' and cabinet-makers' goods (including house, shop, ship, office, hearth and church furniture): 181 — 81 Of brass 2,243 20 2,263 Of copper 81 — 81 Of other and unspecified metals * * 207 Electric lighting accessories, of brass 459 6 465 Lamps and fittings for lighting (not electric) purposes, of brass 459 6 465 Lamps and harness goods, of brass 40 — 40 Fittings for motor cars and motor chassis, of brass * * 447 Railway and tramway carriage fittings, of brass * * 447 Roffin furniture: < | Engineers' machanisions' and plumbers' | noboon. | £ 000. | £ 000. | £ 000. |
| Of copper 87 ‡ 87 Of other and unspecified metals * * 94 Builders' and cabinet-makers' goods (including house, shop, ship, office, hearth and church furniture): 2,243 20 2,263 Of copper 81 — 81 — 81 Of iron and steel 151 — 81 — 81 Of other and unspecified metals 81 — 81 — 81 Of other and unspecified metals 459 6 465 465 465 Lamps and fittings for lighting (not electric) purposes, of brass 438 ‡ 438 ‡ 438 † 438 ‡ 438 † 438 ‡ 438 † 438 ‡ 438 † 448 † 447 * * * * * * * * * * * | OC 1 | goods. | 0.005 | 141 | 0.450 |
| Of iron and steel | | | 2,333 | | |
| Suilders And cabinet-makers Goods (including house, shop, ship, office, hearth and church furniture): Of brass | 00: 1 -1 -1 -1 | •• | - 07 | • | |
| Builders' and cabinet-makers' goods (including house, shop, ship, office, hearth and church furniture): Of brass | | •• | 87 | Ī | BOTTOM STATE OF THE STATE OF TH |
| house, shop, ship, office, hearth and church furniture): Of brass | | | • | | 94 |
| furniture): Of brass | Builders' and cabinet-makers' goods (inc | cluding | | | |
| Of brass 2,243 20 2,263 Of copper 81 — 81 Of iron and steel 151 — 151 Of other and unspecified metals * * 207 Electric lighting accessories, of brass 459 6 465 Lamps and fittings for lighting (not electric) purposes, of brass 40 — 40 Carriage and harness goods, of brass 40 — 40 Fittings for motor cars and motor chassis, of brass 40 — 40 Fittings for motor cars and motor chassis, of brass 40 — 40 Fittings for motor cars and motor chassis, of brass 40 — 40 Fittings for motor cars and motor chassis, of brass 45 — 45 Coffin <t< td=""><td></td><td>church</td><td></td><td></td><td></td></t<> | | church | | | |
| Of copper 81 — 81 Of iron and steel 151 — 151 Of other and unspecified metals * * 207 Electric lighting accessories, of brass . 459 6 465 Lamps and fittings for lighting (not electric) purposes, of brass . . 438 ‡ 438 Carriage and harness goods, of brass . 40 — 40 Fittings for motor cars and motor chassis, of brass . . 40 — 40 Fittings for motor cars and motor chassis, of brass 447 Railway and tramway carriage fittings, of brass . | | | | | |
| Of iron and steel 151 — 151 Of other and unspecified metals * * 207 Electric lighting accessories, of brass 459 6 465 Lamps and fittings for lighting (not electric) purposes, of brass 40 — 40 Fittings for motor cars and motor chassis, of brass 40 — 40 Fittings for motor cars and motor chassis, of brass 40 — 40 Fittings for motor cars and motor chassis, of brass 40 — 40 Fittings for motor cars and motor chassis, of brass 40 — 40 Fittings for motor cars and motor chassis, of brass 45 — 45 Coffinance 45 — 45 — 45 Coffin rurniture: 13 <td>Of brass</td> <td></td> <td>2,243</td> <td>20</td> <td>2,263</td> | Of brass | | 2,243 | 20 | 2,263 |
| Second color of the rand unspecified metals 10 | | 100.0 | 81 | . — | 81 |
| Electric lighting accessories, of brass | | | | _ | 151 |
| Lamps and fittings for lighting (not electric) purposes, of brass | Of other and unspecified metals | | * | * | 207 |
| Lamps and fittings for lighting (not electric) purposes, of brass | Electric lighting accessories, of brass | | 459 | 6 | 465 |
| purposes, of brass | Lamps and fittings for lighting (not el | ectric) | | | |
| Carriage and harness goods, of brass 40 — 40 Fittings for motor cars and motor chassis, of brass * 447 Railway and tramway carriage fittings, of brass 45 — 45 Coffin furniture: * * 190 Of brass * * 190 Of other and unspecified metals 132 — 132 Gas meters 13 — 13 Bedsteads and parts: 78 — 78 Of other and unspecified metals 13 — 13 Brass nails and rivets 25 — 25 Fire extinguishers, sprinklers, etc.: 25 — 25 Of other and unspecified metals * * 88 Of other and unspecified metals | | | 438 | İ | 438 |
| Fittings for motor cars and motor chassis, of brass | | | 40 | _ | 40 |
| brass | Fittings for motor cars and motor chas | ssis, of | | | |
| Railway and tramway carriage fittings, of brass 45 — 45 Coffin furniture: % * 190 Of brass . . 132 — 132 Gas meters . . 13 — 13 Bedsteads and parts: . . 78 — 78 Of brass 78 — 78 Of other and unspecified metals .< | | | * | * | 447 |
| Coffin furniture: Y * 190 Of brass 132 — 132 Gas meters 13 — 13 Bedsteads and parts: <td></td> <td>f brass</td> <td>45</td> <td>se of ear ply</td> <td></td> | | f brass | 45 | se of ear ply | |
| Of brass * 190 Of other and unspecified metals 132 — 132 Gas meters 13 — 13 Bedsteads and parts: 78 — 78 Of brass 13 — 13 Brass nails and rivets 25 — 25 Fire extinguishers, sprinklers, etc.: * 88 Of other and unspecified metals 48 — 48 Ingot brass * * 14 Brass castings, in the rough 295 93 388 Brass forgings, in the rough, and die castings 90 — 90 Other and unspecified finished goods: | | | | 1400 | |
| Of other and unspecified metals 132 — 132 Gas meters . <t< td=""><td>Of brass</td><td></td><td>*</td><td>*</td><td>190</td></t<> | Of brass | | * | * | 190 |
| Gas meters 13 — 13 Bedsteads and parts: 78 — 78 Of other and unspecified metals 13 — 13 Brass nails and rivets 25 — 25 Fire extinguishers, sprinklers, etc.: * * 88 Of brass * * 88 Of other and unspecified metals 48 — 48 Ingot brass * * 14 Brass castings, in the rough 295 93 388 Brass forgings, in the rough, and die castings 90 — 90 Other and unspecified finished goods: 1,098 20 1,118 Of copper * * 174 Of iron and steel * 194 Of other and unspecified metals 493 26 519 Scrap, dust and other waste 152 2 154 | Of other and unspecified metals | 1 27 | 132 | true - rie d | THE RESIDENCE OF THE PARTY OF T |
| Bedsteads and parts : | | | | | |
| Of brass 78 — 78 Of other and unspecified metals | | VA 15 | | cause the most of | 10 |
| Of other and unspecified metals 13 — 13 Brass nails and rivets . 25 — 25 Fire extinguishers, sprinklers, etc.: . . * * 88 Of other and unspecified metals . . . 48 — 48 Ingot brass 14 Brass castings, in the rough 90 — . 90 Other and unspecified finished goods: . | | | 78 | | 78 |
| Brass nails and rivets 25 — 25 Fire extinguishers, sprinklers, etc.: * * 88 Of other and unspecified metals 48 — 48 Ingot brass . * * 14 Brass castings, in the rough . 295 93 388 Brass forgings, in the rough, and die castings 90 — 90 Other and unspecified finished goods: . 1,098 20 1,118 Of copper . . * * 174 Of iron and steel . . * 194 Of other and unspecified metals 493 26 519 Scrap, dust and other waste . 152 2 154 Other goods made . . 188§ 35§ 223§ Work done for the trade 81§ 1§ 82§ | | | | | |
| Fire extinguishers, sprinklers, etc.: Of brass | | | | | PROCESSION OF THE PROCESSION O |
| Of brass | | | 20 | in the second con- | 20 |
| Of other and unspecified metals 48 — 48 Ingot brass | | | * | * | 00 |
| Total value of Goods Made and work 14 15 15 15 16 16 16 16 16 | | NOT THE OWNER OF THE PARTY OF | 10 | | |
| Brass castings, in the rough 295 93 388 Brass forgings, in the rough, and die castings 90 — 90 Other and unspecified finished goods: 1,098 20 1,118 Of copper * * 174 Of iron and steel * * 194 Of other and unspecified metals 493 26 519 Scrap, dust and other waste 152 2 154 Other goods made 13 — 13 Repair work 188§ 35§ 223§ Work done for the trade 81§ 1§ 82§ | | index louis for | * | * | State of the state |
| Brass forgings, in the rough, and die castings 90 — 90 Other and unspecified finished goods: 1,098 20 1,118 Of copper | | | 205 | | |
| Other and unspecified finished goods: 1,098 20 1,118 Of copper * * 174 Of iron and steel * * 194 Of other and unspecified metals 493 26 519 Scrap, dust and other waste 152 2 154 Other goods made 13 — 13 Repair work 188§ 35§ 223§ Work done for the trade 81§ 1§ 82§ | | | | 93 | |
| Of brass 1,098 20 1,118 Of copper * * 174 Of iron and steel * * 194 Of other and unspecified metals 493 26 519 Scrap, dust and other waste 152 2 154 Other goods made 13 — 13 Repair work 188§ 35§ 223§ Work done for the trade 81§ 1§ 82§ TOTAL VALUE OF GOODS MADE AND WORK | | ings | 90 | | 90 |
| Of copper * * 174 Of iron and steel * * 194 Of other and unspecified metals 493 26 519 Scrap, dust and other waste 152 2 154 Other goods made 13 — 13 Repair work 188§ 35§ 223§ Work done for the trade 81§ 1§ 82§ TOTAL VALUE OF GOODS MADE AND WORK | 001 | | 1,000 | 90 | 1 110 |
| Of iron and steel * * 194 Of other and unspecified metals 493 26 519 Scrap, dust and other waste 152 2 154 Other goods made 13 — 13 Repair work 188§ 35§ 223§ Work done for the trade 81§ 1§ 82§ Total value of goods made and work | | | | 20 | |
| Of other and unspecified metals | 06: | | | | |
| Scrap, dust and other waste 152 2 154 Other goods made < | | | | 00 | |
| Other goods made <td></td> <td>••</td> <td></td> <td></td> <td></td> | | •• | | | |
| Repair work 188§ 35§ 223§ Work done for the trade 81§ 1§ 82§ TOTAL VALUE OF GOODS MADE AND WORK | | •• | | 2 | |
| Work done for the trade 81§ 1§ 82§ Total value of goods made and work | - · · · · | •• | | - | |
| TOTAL VALUE OF GOODS MADE AND WORK | | | | | |
| | Work done for the trade | | 81§ | 1§ | 82§ |
| | T | | | | |
| DONE (GROSS OUTPUT) 10,067 419 10,486 | [1] 12 전 1 전 2 전 2 전 2 전 2 전 2 전 2 전 2 전 2 | WORK | 10.007 | 410 | 10.400 |
| | DONE (GROSS OUTPUT) | •• | 10,067 | 419 | 10,486 |

^{*} In order to avoid the possible disclosure of information relating to individual firms, figures are given only for the United Kingdom as a whole.

† See footnote to Table 1.

‡ Less than £500.

§ Amount received for work done.

III.—Employment.

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

| Kind of staff. | Ма | ales. | Females. | | Males and females. | |
|---|--------------|-----------------|--------------|----------------|--------------------|-----------------|
| Kind of staff. | Under 18. | All ages. | Under 18. | All ages. | Under 18. | All ages. |
| England and Wales and N. Ireland†:— | .290 | rom on | FLEGT | | | |
| Operatives Administrative, etc.* | 3,961 213 | 19,618 2,674 | 2,661 294 | 9,239 1,312 | 6,622 507 | 28,857 3,986 |
| TOTAL | 4,174 | 22,292 | 2,955 | 10,551 | 7,129 | 32,843 |
| Scotland:— Operatives Administrative, etc.* | 171 14 | 1,019 | 8 15 | 35 59 | 179 29 | 1,054 192 |
| TOTAL | 185 | 1,152 | 23 | 94 | 208 | 1,246 |
| United Kingdom:— Operatives Administrative, etc.* | 4,132 227 | 20,637 2,807 | 2,669 309 | 9,274 1,371 | 6,801 536 | 29,911 4,178 |
| TOTAL | 4,359 | 23,444 | 2,978 | 10,645 | 7,337 | 34,089 |

^{*} Administrative, technical and clerical staff.

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

England and Wales and Northern Ireland.* (Annual average: Males, 19,303; Females, 8,923; Total, 28,226.)

| Week ended. | Males. | Females. | Total. | Week ended. | Males. | Females. | Total. |
|-------------|--------|----------|--------|-------------|--------|----------|--------|
| Jan. 12th | 18,640 | 8,491 | 27,131 | July 19th | 19,348 | 8,911 | 28,259 |
| Feb. 16th | 18,827 | 8,559 | 27,386 | Aug. 16th | 19,082 | 8,737 | 27,819 |
| Mar. 15th | 19,025 | 8,612 | 27,637 | Sept. 13th | 19,557 | 9,023 | 28,580 |
| April 12th | 19,122 | 8,718 | 27,840 | Oct. 18th | 19,618 | 9,239 | 28,857 |
| May 17th | 19,342 | 8,902 | 28,244 | Nov. 15th | 19,820 | 9,465 | 29,285 |
| June 21st | 19,404 | 8,919 | 28,323 | Dec. 13th | 19,854 | 9,499 | 29,353 |

| Scotl | and. | (Annual | average | : Males | s, 997; Females, | 35; Tota | al, 1,032 | (.) |
|------------|------|---------|---------|---------|------------------|----------|--|--|
| Jan. 12th | | 919 | 35 | 954 | July 19th | 1.003 | 34 1 | 1.037 |
| Feb. 16th | | 945 | 34 | 979 | | 998 | 35 | AND DESCRIPTION OF THE PARTY OF |
| Mar. 15th | | 962 | 34 | 996 | Sept. 13th | 1.011 | A TORNING SHEET SHEET SHEET SHEET SHEET | 1.046 |
| April 12th | | 986 | 35 | | Oct. 18th | 1.019 | STATE OF THE PERSON OF THE PER | |
| May 17th | | 1,003 | 36 | 1,039 | Nov. 15th | 1.050 | 35 | 1,085 |
| Tune 21st | | 995 | 36 | | Dec 13th | 1.070 | 35 | 1 105 |

United Kingdom. (Annual average: Males, 20,300; Females, 8,958; Total, 29,258.)

| 296 |
|-------|
| 852 |
| 626 |
| 911 |
| 370 |
| 458 |
| 8 600 |

^{*} See footnote to Table I.

[†] See footnote to Table I.

IV.—Mechanical Power.

PARTICULARS OF PRIME MOVERS, ELECTRIC GENERATORS AND ELECTRIC MOTORS.

| - 15 M R.W. 1224 M 1021 B - 15 M R.W. 1224 M 1225 B | England and N. | and Wales Ireland.* | Scotland. | | United Kingdom. | |
|--|---|-------------------------|-----------------------------------|---------------------|--------------------------------|----------------------|
| Power equipment. | Ordinarily in use. | In reserve or idle. | Ordinarily in use. | In reserve or idle. | Ordinarily in use. | In reserve or idle. |
| PRIME MOVERS:— Reciprocating steam engines Steam turbines Gas engines Petrol and light oil engines Heavy oil engines Water power | H.P. 996 193 7,450 5 517 30 | H.P. 48 96 863 | H.P. 80 — 220 — 35 | H.P. 6 9 — | H.P. 1,076 193 7,670 5 552 30 | H.P. 54 96 872 — |
| TOTAL | 9,191 | 1,007 | 335 | 15 | 9,526 | 1,022 |
| Total of Prime Movers installed | 10,198 | | 350 | | 10,548 | |
| ELECTRIC GENERATORS:— Driven by— Reciprocating steam engines Steam turbines Gas engines Heavy oil engines Water power | 72 144 386 48 25 | Kw. 34 72 19 | Kw. 40 5 13 | Kw. | Kw. 112 144 391 61 25 | Kw. 34 72 19 |
| TOTAL | 675 | 125 | 58 | | 733 | 125 |
| Total of Electric Gene- rators installed | 800 | | 58 | | 858 | |
| ELECTRIC MOTORS:— Driven by— Electricity generated in own works Purchased electricity | H.P. 1,208 13,673 | H.P. 309 1,703 | H.P. 45 838 | H.P. — 91 | H.P. 1,253 14,511 | H.P. 309 1,794 |

^{*} See footnote to Table I.