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## THE REPORT

on the

## CENSUS OF PRODUCTION FOR 1951

Volume 3
Trade G
NON-FERROUS METALS (SMELTING, ROL

Presented by the Boacse of Trade to Parliament
in pursuance of the Statistics of Trade Act, 1947 ( 10 \& 11 Geo. 6. Ch. 39, Sec. 7).

LONDON: HER MAJESTY'S STATIONERY OFFICE


(b) For small firms. summary see Table 2 .
 (c) Gross output for 1951 includes payments to ther firms and undertakings and to firms. own separate transport
organis.ations for transport tervices.
goods sold (d) Goods sold are excluded.
(e) Payments ot other firms and under takings and to firms. own separate transport organisations. For 1951 they
cover payments for transprt of both god sold and materials and fuel purchased. For other years payments
(f) Excluding outworkers but including forkhing proprietors. For an estimate of the total number of persons

(h) For details for 1951 and 1948 see Table 8 .
(i) For details for 1951 and
(i) For details for 1951 see Table 21 . Table 10 .
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TABLE 2
Summary: Small firms (a)

|  | Great Britain |  | $\begin{gathered} \begin{array}{c} \text { Uni ted } \\ \text { Ringdom } \\ \text { Kind } \end{array} \frac{1949}{} \end{gathered}$ | Great Britain |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1951 | 1950 |  | 1949 | 1948 |
| Number of returns | 336 | 339 | 390 | 387 | 387 |
| Average number of persons employed (b) <br> Males <br> Females | $\begin{array}{r} 1.875 \\ 221 \end{array}$ | 1.928 226 | $\begin{aligned} & 1.819 \\ & 223 \end{aligned}$ | ${ }^{1.797}$ | 2.089 210 |
| Total | 2.096 | 2.154 | 2.042 | 2,019 | 2,299 |

(a) Small firms (employing on the average ton or fewer persons) that made attisfactory retums. No in formation (b) Including morking proprietors.

TABLE
Estimated average employment (a): All firms

|  | United Kingdom |  |  | Great Britain |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1951 | 1950 | 1949 | 1949 | 1948 |
| As returned by firms <br> Employing on the average more than ten persons (b) <br> Employing on the average ten or fewer persons (d) | $\begin{aligned} & 106,949 \\ & 2,096(\mathrm{e}) \end{aligned}$ | $\begin{array}{r} 102,936 \\ 2,154(\mathrm{e}) \end{array}$ | $\begin{gathered} 99.943 \\ 2,042 \end{gathered}$ | $\begin{aligned} & (\mathrm{c}) \\ & 2.019 \end{aligned}$ | $\begin{array}{r} 104,395 \\ 2,299 \end{array}$ |
| Estimated average employment in firms not making satisfactory returns | $\begin{array}{r} 109.045 \\ 299 \end{array}$ | $\begin{array}{\|r} 105.090 \\ 351 \end{array}$ | $\begin{array}{r} 101.985 \\ 760 \end{array}$ | (c) | $\begin{array}{r} 106.694 \\ 238 \end{array}$ |
| Estimated average employment in all firms | 109, $344(\mathrm{e}$ ) | 105.441(e) | 102.745 | (c) | 106, 932 |

(a) Including working proprietors.
(b) See Tables $13($ iv) and 14 .
(c) Owing to the risk of di sclosure of in formation relating to individual fi ms in Northern Ireland separate (d) See Taule 2. ${ }^{\text {(e) }}$ Excluding any small firms in Northerm Ireled

Analysis by size, 195
Larger establishments in the United Kingdom

| Average employed | $\underbrace{\text { s }}_{\substack{\text { Establi } \\ \text { ments }}}$ - | $\underset{\substack{\text { Gross } \\ \text { output }}}{ }$ | ( $\begin{gathered}\text { Net } \\ \text { output }\end{gathered}$ | Personsemployed | Remuneration |  |  | Net outputper personemployed |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Operatives | $\underset{\substack{\text { Other } \\ \text { employees } \\ \text { (a) }}}{\text { en }}$ | Total |  |
|  | No. | £ 000 | $\varepsilon^{\circ} 000$ | No. | \&.000 | £. 000 | \&'000 | $\varepsilon$ |
| 11 25 50 | $\begin{aligned} & 112 \\ & 110 \end{aligned}$ | 9.775 18.417 | ${ }_{3}^{2.016} 3$ | ${ }_{\substack{1.978 \\ 3,767}}^{1.7}$ | ¢ 1.179 1 | ${ }_{439}^{209}$ |  | ${ }^{1.019}$ |
|  | 100 | 40.788 | 7.387 | 7.096 | ${ }_{2,343}^{1.177}$ | ${ }_{751}^{439}$ | ${ }_{\substack{1.616 \\ 3.094}}^{1.80}$ | 964 1.041 |
|  | 68 17 | ${ }_{\text {S }}^{53.777}$ | $\underset{\substack{10.622 \\ 3.322}}{ }$ |  | 3.200 |  |  |  |
| $\begin{aligned} & 200=299 \\ & 300=399 \end{aligned}$ | ${ }_{20}^{17}$ | 13,864 54,359 | 3.322 7.931 7.931 | 3.888 7.131 | $\xrightarrow[\substack{1.1168 \\ 2,196}]{\text { c, }}$ | $\begin{array}{r}394 \\ 842 \\ \hline 8\end{array}$ |  | 1.854 1.112 |
| ${ }_{500}^{400}$ - ${ }^{4999}$ | ${ }_{2}{ }^{2}$ | 24.169 39.605 | - ${ }^{3.993}$ | 4.091 | 1.355 | 468 | 1.823 | ${ }^{1.116}$ |
| 750-999 | ${ }_{12}^{22}$ | 39,605 35.521 | ${ }_{9}^{11.018}$ | $\begin{array}{r}13.393 \\ 9.852 \\ \hline\end{array}$ |  | 1. ${ }_{992}$ | 5.470 4.481 | 823 973 |
| ${ }_{1}^{1,000} \mathbf{1 , 5 0 0}=1.4999$ | ${ }_{1}^{11}$ | -44.560 | ${ }^{111.299}$ | 13.907 |  |  |  |  |
| ${ }_{2.000}^{1.500}=1,{ }_{2,999}$ | 5 <br> 4 | 31.439 <br> 22.708 |  |  |  | 1.970 |  | - $\begin{array}{r}\text { 1. } \\ \text { 1. } 344 \\ \hline 679\end{array}$ |
| 3,000 and over | 4 | ${ }^{26,531}$ | 12.683 <br> 10.052 | (14.446 | 3.152 4.494 | 854 1.555 | 4.007 6,049 | 679 696 |
| Total | 493 | 427, 513 | ${ }^{98,688}$ | 106,949 | 34,920 | 11, 209 | 46,129 | 923 |

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| Region | Estab-lish-ments | Gross output | Net output |  | Personsemployed | Remuneration |  |  | $\begin{aligned} & \text { Net output } \\ & \text { per person } \\ & \text { employed } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Value | Percent- <br> age of <br> total |  | Operatives | $\begin{aligned} & \text { Other } \\ & \text { employees } \\ & \text { (a) } \end{aligned}$ | Total |  |
| England and | No. | $\varepsilon^{\prime} 000$ | £.000 |  | No. | £.000 | \&. 000 | £.000 | $\varepsilon$ |
| Northern Ireland Northern | 17 | 11.933 | 2.613 | 2.6 | 2.560 | 773 | 262 | 1.035 | 1.021 |
| East and West <br> Ridings | 30 | 15.747 | 4.780 | 4.8 | 5. 559 | 1.673 | 562 | 2.235 | 860 |
| North Midland | 12 | 5.074 | 1.004 | 1.0 | 930 | 290 | 115 | 405 | 1.080 |
| Eastern: South Western: and Northern Ireland | 24 | 18,947 | 6,315 | 6.4 | 4.037 | 1,327 | 517 | 1.844 | 1. 564 |
| London and South Eastern | 103 | 75,023 | 14.643 | 14.8 | 16,380 | 5.063 | 1.958 | 7.021 | 894 |
| Southern | 15 | 13.201 | 4.490 | 4.5 | 5.247 | 1.879 | 496 | 2.375 | 856 |
| Midland | 183 | 161.093 | ${ }^{39} .278$ | 39.8 | 44. 521 | 14.864 | 4.471 | 19.335 | 882 |
| North Western | 54 | 63, 218 | 8.171 | 8.3 | 9, 568 | 3.015 | 966 | 3.981 | 854 |
| Total England and Northern Ireland | 438 | 364.236 | 81,295 | 82.4 | 88.802 | 28.883 | 9.347 | 38. 231 | 915 |
| Wales | ${ }^{23}$ | ${ }^{41.010}$ | 11,667 | 11.8 | 11.486 | 3,870 | 1.168 | 5.038 | 1.016 |
| Scotlemd | 32 | 22, 267 | 5.726 | 5.8 | 6.661 | 2.167 | 694 | 2.861 | 860 |
| United Kingdom | 493 | 427. 513 | 98.688 | 100.0 | 106.949 | 34.920 | 11. 209 | 46.129 | 923 |

Analysis according to specialisation within the trade, 1951
Larger establishments in the United Kingdom
TABLE 6

|  | Establish-ments | Grossoutput | Sales ofcharact.teristicproducts | $\left\lvert\, \begin{gathered} \text { Net } \\ \text { output } \end{gathered}\right.$ | Personsemployed | Remuneration |  |  | Net output <br> per person employed |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | perati | $\underset{\substack{\text { Other } \\ \text { employes } \\ \text { (a) }}}{\substack{\text { ene }}}$ | Total |  |
| Specialist producers of | No. | $\varepsilon^{\prime} 000$ | £ 000 | £.000 | No. | £.000 | £. 000 | \& 000 | $\varepsilon$ |
| Aluminium and <br> magnesium, and alloys | 176 | 110. 215 | 99.171 | 36.142 | 48.747 | 16.711 | 4.425 | 21.135 | 741 |
| Copper and copper alloys | 131 | 163.518 | 135.667 | 31.653 | 32.543 | 10.517 | 3.745 | 14. 262 | 973 |
| Lead | 48 | 40,159 | 29,288 | 5,583 | 3.196 | 896 | 575 | 1.471 | 1.747 |
| Tin | 15 | 39.730 | 35.793 | 3.145 | 1.975 | 632 | 231 | 863 | 1. 592 |
| Zinc | 52 | 30.752 | 25,994 | 9.826 | 8.140 | 2.617 | 766 | 3.384 | 1.207 |
| Remalnder of trade | 71 | 43.139 |  | 12,340 | 12,348 | 3.547 | 1.468 | 5.014 | 999 |
| Total | 493 | 427. 513 |  | 98,688 | 106.949 | 34.920 | 11.209 | 46.129 | 923 |

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|  | Returned in this trade |  |  | Retumed in all trades |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | $\underset{\substack{\text { Great } \\ \text { Britain } \\ 1948}}{\text { and }}$ | United Kingdom1951 |  |  |
|  | Quantity | Entries | Quantity | Quantity | Entries |  |
| Principal products (contd.) <br> Copper (contd.) <br> Plates, sheets or strip (other tham of high Th. tons No. Th. tons Th.tans No. Th. tons |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| $3 / 8$ inch thick and over | (a) | .. | 7.9 | 8.4 | 12 | 9.3 |
| Other sheets, strip. foil, discs and circles, exceeding 6 inches in width or diameter | (a) | .. | 27.1 | 29.6 | ${ }^{27}$ | 28.6 |
| Strip. foil , discs and circles, not | (a) | .. | 2.5 | 12.1 | 23 | 4.0(d) |
| Hi gh conductivity strip | (a) | .. | 13.4 | 12.6 | 10 | 15.1(d) |
| Strip not exceeding 6 inches in width (high conductivity and other), unclassified | . | . | . | 11.2 | 10 | . |
| Rods and sections, shapes and angles and wire not in coils Wire rads |  |  |  |  |  |  |
| High conductivity | 59.8 | 5 | 85.5 | 59.8 | 5 | 181.5 |
| Other | (a) | .. | (a) | 1.0 | 6 | 9.3 |
| Unclassi fi ed | 19 | - | 2.0 | 85.7 | 7 | - |
| Shapes and angles | 1.9 | .. | 2.0 | 1.9 | .. | 2.0 |
| Other rods and sections and wire not in coils |  |  |  |  |  |  |
| Rolled | 2.7 | 8 | (a) | 2.7 | 10 | ${ }^{3.4}$ |
| Extruded | (a) | .. | 4.2 | 2.1 | 10 | 26.5 |
| Unclassified shapes and amgles and other rods | - | - | - | 3.0 | 6 | - |
| Unclassified rods | - | - | - | 1.4 | 5 | - |
| Tube shells <br> Lead, unwrought, in pigs, ingots, blocks, bars, | 53.4 | 14 | 49.3 | 53.4 | 14 | 49.3 |
|  | (a) | .. | 105.9 | 115.8 | 44 | 106.1 |
|  |  |  |  |  |  |  |
| Blocks, ingots, bars and slabs | 27.9 | ${ }^{21}$ | 28.6 | 27.9 | ${ }^{21}$ | 28.6 |
| Solder, so ft | (a) | .. | 17.3 | 22.4 | ${ }^{36}$ | 17.4 |
|  | (a) | $\cdots$ | 73.3 | 72.4 | ${ }^{22}$ | 73.6 |
| White metal alloys |  |  |  |  |  |  |
| Anti-friction metal | 4.7 | 24 | 4.2 | 5.2 | 29 | 5.2 |
| Type-metal | 10.0 | 16 | 9.3 | 10.0 | 16 | 9.3 |
| Other products |  |  |  |  |  |  |
| Brass and other copper alloys, including nickel <br> silver, but excluding all other nickel alloys <br> Wire in coils, circular section (e) |  |  |  |  |  |  |
| Thinner than No. 20 gauge (Imperial <br> standard wire gauge), of brass <br> No. 20 gauge (Imperial standard wire gauge) |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Of brass | 6.8 | 13 | . |  |  |  |
| Of other copper alloys | 1.9 | 7 | .. |  |  |  |



 (e) For to tal make returned in all trades see the Wire and Wire Mamu factures Trade (Volume 5. Trade D). (93200/1)

Sales of the principal products of the trade, including sales of these products by establishments classified to other trades

TABLE 8 Larger establishments

|  | United Kingdom1951 |  |  | $\mathrm{Creat}_{\text {Gritain }}^{1948}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Entries | Quantity | Value |
| Aluminium amd aluminium alloys | Th. tons | £.000 | No. | Th. ton s | \&. 000 |
| Ingots and notch bars, virgin | 43.7 | 5.801 | 14 | 34.1 | 3. 246 |
| Ingots, notch bars and sticks, secondary | 91.9 | 12,373 | 37 | 70.3 | 5.399(a) |
| Blocks, slabs, billets and wi rebars | 40.6 | 5. 591 | 11 | 37.2 | 3.781(b) |
| Shets. plates and strip (flat or in coil), |  |  |  |  |  |
| Pure | 69.3 | 14. 291 | 15 |  |  |
| Alloy |  |  |  |  |  |
| Corrugated | 10.9 | 2.363 | 7 | 109.3 | 19.382 |
| Other | 53.2 | 13,961 | 15 |  |  |
| Discs, circles and slugs, exceeding 0.006 inches in thickness |  |  |  |  |  |
| Pure | 14.2 | 3,434 | 11 |  |  |
| Alloy | 1.1 | 280 | 8 | 16.6 | 2,937 (c) |
|  | Th.cwts. |  |  | Th. cwts. |  |
| Foil (strip. etc. not exceeding 0.006 inches | 255.7 | 5. 554 | 13 | 154.4 | 2.817 |
| Bars (other than notch bars and wirebars). <br> rods, angles, shapes and sections | Th.tons |  |  | Th. tons |  |
| Pure | 5.6 | 1.174 |  | 37.5 |  |
| Alloy | 28.1 | 7,512 | 11 | 37.5 | 6.861(d) |
| Castings | 63.9 | 22.006 | 352 | 43.0 | 11.684 |
| Forgings and stampings | 4.9 | 3, 299 | 20 | 4.2 | 2. 163 |
|  | Th.cwts. |  |  | Th.cwts. |  |
| Powder, flake and gramulated | 102.8 | 824 | 7 | 66.4 | 436 |
| Collapsible tubes (e) | 10.2 | ${ }_{433}^{296}$ | \} 7 , | 0.4 | ${ }_{43}^{29}$ |
| Tubes | Th. tons |  |  | Th. tons |  |
| Extruded |  |  |  |  |  |
| Pure | 0.7 | 236 | 6 |  |  |
| alloy | 2.4 | 577 | 10 | 10.0 | 2. 575 |
| Drawn |  |  |  |  |  |
| Pure | 1.1 | 437 | 7 |  |  |
| Alloy | 3.5 | 1.687 | 11 | .. | 1.965 |
| Other manu factures of aluminium, except wire and domestic ware | -. 0.7 | $\begin{array}{r} 214 \\ 1.135 \end{array}$ | 40 |  |  |
| Total aluminium and manu factures thereof |  | 103. 477 | .. | .. | 63.317 |
|  | Th.1bs. |  |  |  |  |
| Bi smuth (metal). not including alloys of bismuth | 652.4 | 848 | .. | 57.7 | 302 |
|  | Th. tons |  |  | Th. tons |  |
| Brass and other copper alloys, including nickel silver, but excluding all other nickel alloys |  |  |  |  |  |
| Ingots, blocks, slabs, billets, bars (including wirebars) and cast strip |  |  |  |  |  |
| Bronze. phosphor bronze and gunmetal | 72.7 | 19.150 | 47 | 79.7 | 9.044 |
| Other | 62.0 | 13.761 | 62 | 39.6 | 4.089 |
| Plates, sheets, foil, strip, discs and circles | 67.9 | 18.307 | 51 | 81.0 | 14.116 |
| found brass rods | 59.6 | 14.955 | 22 | 34.4 | 4.951 |


| TABLE 8 (contd.) |
| :--- |


|  | United Kingdom |  |  | Great Britain $_{1948}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantity | value | Entries | Quantity | Value |
| Lead | Th. $\operatorname{ton} \mathrm{s}$ | ع.000 | No. | Th. tons | \& 000 |
| Unwrought, in pigs, ingots, blocks, bars, slabs and cakes | 75.8 | 11.055 | 39 | 57.3 | 5.003 |
| Sheet | 37.8 | 6. 594 | 25 | 38.3 | 4,117 |
| Pipes | 23.6 | 4. 364 | 33 | 33.8 | 3.811 |
| Foil | 1.2 | 249 | 5 | 0.7 | 101 |
|  | Th. cwts. |  |  | Th. cruts. |  |
| Collapsible tubes of lead |  | ${ }_{282}^{425}$ | 8 | 16.0 | 203 40 |
| Lead shot | 25.2 | 484 |  | 42.0 | ${ }^{233}$ |
| Antimonial and tinny lead | 1.036.6 | 9.192 | 24 | 1,026.0 | 5. 428 |
| Other manu factures of lead | 116.5 | 1. 5099 | 48 \{ | 128.0 | 1.013 162 |
| Total lead and mamufactures thereof |  | 34, 532 | .. |  | 20.111 |
| Magnesium amd magnesium alloys |  |  |  |  |  |
| Castings | 76.4 | 2.081 | 9 | 51.2 | 1.163 ${ }_{265}$ |
| Ingots, sticks, slabs and billets, and mamu- |  |  |  |  |  |
| other thom castings | 164.8 | 2. 423 | 7 | 156.3 | 605 |
| Total magnesium and magnesium alloys | 241.2 | 4. 504 | .. | 207.5 | 1.769 265 |
| Manganese metal | 19.5 | 198 | .. | 24.3 | 175 |
| Nidel and nidel alloys (other tham nickel sil ver) | Th. tons |  |  | Th. tons |  |
| Ingots, billets, cathodes, bars, rods, plates, sheets, strip, foil, etc. | 28.3 | $\begin{aligned} & 14,012 \\ & 346 \end{aligned}$ | \} :- | 22.9 | 5.817 |
| Other manufactures, except wire of nickel alloys | 5.2 | 2,981 119 |  | 5.3 | 2.340 |
| manufactures thereof |  | 17.458 | .. | 28.3 | 8.157 |
| Tin |  |  |  |  |  |
| Blocks, ingots, bars and slabs Solder, soft |  | 28.036 | 19 | 27.8 | 14.179 |
| Solder, so ft Foil | 22.2 | 11.165 | ${ }^{36}$ | 17.3 | 4. 492 |
|  | 0.6 | 568 | .. | 0.5 | 337 |
| Collapsible tubes of tin | Th. ${ }_{\text {cuts }}$ | 175 | 7 | Th. cwts. 28.0 |  |
| Other manu factures of tin | 6.3 | 243 482 |  | $\cdots$ | ${ }_{200}$ |
| Total tin and manufactures thereof |  |  |  | 28.0 | 362 |
| Total tin amd manufactures thereof |  | 40.669 | .. |  | 20,955 |
| Tungsten, in all forms except ferro-tungsten | $\begin{aligned} & \text { Th. } 1 \mathrm{bs} . \\ & 576.2 \end{aligned}$ | 1.239 | 5 | $\begin{gathered} \text { Th.1bs. } \\ 549.6 \end{gathered}$ | 572 |
| Zinc or spelter | Th. tons |  |  | Th. tons |  |
| Unwrought, in ingots, blocks, bars, slabs and cakes | 71.8 |  |  | 73.3 |  |
| Sheets, strip, plates, foil, discs and circles | 14.2 | 3,184 | 18 | 20.6 | 7.363(g) |
| zinc dust | Th. cwts . 212.4 |  |  |  |  |
| Zinc alloy ingots (for die-casting) |  | 2.153 6.194 | 6 | ${ }_{6} .155 .1$ | 633 2.513 |
| Zinc alloy pressure die-castings | 408.4 | 6.995 | 66 | 327.0 | 3.630 400 |


|  | $\begin{aligned} & \text { United Kingdom } \\ & 1951 \end{aligned}$ |  |  | ${ }_{\substack{\text { Great } \mathrm{Pritain} \\ 1988}}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Entries | Quantity | value |
| Zinc or spelter (contd.) Other manufactures of zinc | Th. cwts. <br> 21.6 | $\begin{gathered} \varepsilon^{\prime} 000 \\ \begin{array}{c} 289 \\ 87 \end{array} \end{gathered}$ |  | Th. owts. <br> 58.7 | $\begin{gathered} \varepsilon^{\prime} 0000 \\ \begin{array}{c} 673 \\ 265 \end{array} \end{gathered}$ |
| Total zinc amd manufactures thereof |  | 30,636 | .. |  | 15.476 |
| White metal alloys (h) <br> Unwrought or partly wrought <br> Anti-friction metal <br> Type-metal <br> Other sorts <br> Wrought or manufactured <br> Printing type <br> Other manufactures | Th. ton s 5.1 9.8 9.8 $\mathrm{Th} . \mathrm{cwts}$. 7.4 7.4 11.2 .. 1.5 | $\begin{gathered} 4.054 \\ 2.239 \\ 1.886 \\ \hline 338 \\ 125 \\ 43 \end{gathered}$ | 29 15 13 8 8 10 | $\begin{gathered} \text { Th. tons } \\ \\ \begin{array}{c} 5.0 \\ 8.6 \\ \text { Th. cwts. } \\ \text { 29.4 } \\ \\ 9.6 \\ 6.8 \end{array} \end{gathered}$ | $\begin{gathered} 2.007 \\ 1.230 \\ 729 \\ \\ 268 \\ 147 \\ 111 \end{gathered}$ |
| Total white metal alloys and mamu factures thereof |  | 8,685 | .. |  | 4. 492 |
| Other non-ferrous metals and alloys of metals including antimony and manufactures of antimony. but excluding precious metals <br> Mi scellaneous manufactures, etc. <br> Concentrates, metallic residues, wastes, etc., not elsewhere speci fied <br> Lighter flints (e) <br> Metallic packings (e) <br> Hard metal powder (including tungsten carbide powder and matrix) (e) <br> Other finished non-ferrous metal products <br> Work done for the trade or on commission (i) Casting of ingots, billets, etc. of brass and other copper alloys <br> Rolling of brass and other copper alloys (including nickel silver. but excluding all other nickel alloys) <br> Rolling of copper <br> Other work <br> Repair work (i) |  | $\begin{array}{r} 2.641 \\ 184 \\ \\ 3.800 \\ 316 \\ 141 \\ 173 \\ \\ 1.095 \\ 149 \\ \\ 557 \\ 58 \\ \\ 582 \\ 5 \\ \hline 95 \\ \hline \end{array}$ |  | Th. tons <br> 7.9 <br> 100.8 <br> 0.7 <br> Th.lbs. <br> 207.9 <br> Th. tons 1.0 | $\begin{array}{r}1.623 \\ 188 \\ \\ 2.607 \\ 352 \\ 309 \\ 115 \\ \\ 302 \\ \\ 414 \\ 270 \\ \\ \hline\end{array}$ |
| To tal |  | 416.907 | .. |  | 239,111 |
| Sales in other trades (see Table 9) Principal products of this trade sold by establishments in the trade |  | 33,606 383.301 | 447 |  | 18,679 220.432 |




(h) Acmonot be given.
(i) Amount of ching lead, zinc. antimony, etc., not el sevhere specified.
$93200 / 1$ )

TABLE 9
Larger establishments

|  | $\begin{aligned} & \text { United Kingdom } \\ & \quad 1951 \end{aligned}$ |  |  | Great Britain $_{1948}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Entries | Quantity | Value |
| Aluminium amd aluminium alloys | Th.ewts. | \&.000 | No. | Th.ewts. | ¢. 000 |
| Foil (strip. etc. not exceeding 0.006 inches in thickness) | $\begin{gathered} \text { Th. tons } \end{gathered}$ | 176 |  | $\begin{gathered} 3.7 \\ \text { Th. } \begin{array}{c} 3.7 \end{array} \end{gathered}$ | 82 |
| Castings | 7.3 | 2.741 | 208 | 5.4 | 1.528 |
| Forgings and stampings | 0.2 | 142 | 13 | 1.1 | 616 |
| Bars (other than notch bars and wi rebars). rods. angles, shapes and sections: and tubes | 0.9 | 255 | 5 |  |  |
| Ingots, notch bars and sticks. secondary: blocks. slabs, billets and wi rebars; sheets. plates and strip (flat or in coil) exceeding 0.006 inches in thickness. other tham of alloy corrugated: discs, circles and slugs, exceeding flake and granulated: collapsible tubes: and other manu factures of aluminium, except wire and domestic ware and domestic ware | 1.9 | ${ }_{405}^{496}$ | 25 | 4.2 | ${ }_{731}^{817}$ |
| To tal aluminium and manufactures thereof |  | 4.214 | .. |  | 3.774 |
| Brass and other copper alloys, including nickel <br> silver, but excluding all other nickel alloys |  |  |  |  |  |
| Ingots, blocks, slabs, billets, bars (including wirebars) and cast strip |  |  |  |  |  |
| Bronze, pho sphor bronze and gunmetal | 8.3 | 2.430 | 6 | 4.7 | 702 |
| Other | 5.1 | 1.103 | 5 | 2.9 | 328 |
| Plates, sheets, foil, strip. discs and circles | 1.6 | 460 | 6 | 3.9 | 606 |
| hound brass rods: shapes and angles; other rods and sections and wire not in coils | 3.3 | 971 | 10 | 3.0 | 499 |
| Tubes: and other manufactures of brass, except castings and wire in coils | 23.8 | 444 5 | \} 8 | 29.1 | 315 58 |
| Total brass, etc. and manufactures thereof |  | 5. 414 | .. |  | 2, 508 |
| Copper | Th.tons |  |  | Th. tons |  |
| Unwrought: ingots, blocks, slabs, bars. billets, cakes, cathodes and anodes, including rough copper of 94 per cent. copper conten or over | 15.8 | 3. 426 | 8 | 13.8 | 1.783 |
| Plates, sheets or strip (including high conductivity strip) | 14.7 | 4. 188 | 15 | 6.1 | 990 |
| Tubes | 0.9 | $\begin{aligned} & 353 \\ & 360 \end{aligned}$ | 9 | 0.8 | 228 |
| Wire rads. unclassified; and unclassified shapes and angles and other rods | 29.1 | 6.962 | 9 | - | - |
| Copper castings. Other than engineers' and mechamicions'goods | 0.1 | 39 | 5 |  |  |
| Wire rods, other tham of high conductivity: other rods and sections and wire not in coils. extruded: and other manu factures of copper. except wire in colls and engineers and mechaniciams goods | 1.1 | ${ }_{232}^{271}$ | ) 8 | 24.3 | + $\begin{array}{r}4.392 \\ 126\end{array}$ |
| Total copper and manufactures thereo f |  | 15,831 |  |  | 7.519 |



|  | $\begin{aligned} & \text { United Kingdom } \\ & 1951 \end{aligned}$ |  | $\underset{\text { Great Britain }}{1948}$ |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Quantity | value |
| Aluminium and aluminium alloys | Th.cwts. | £'000 | Th. cuts. | \&. 000 |
| Wire | 22.5 | 378 | 28.0 | 339 |
| Domestic hollow-ware and other manufactures |  | 99 |  | 200 |
| Brass and other copper alloys, including nickel silver, but excluding all other nickel alloys | Th. tons |  | Th. tons |  |
| Wire in coils | 8.6 | 2.343 | 6.2 | 1.122 |
| fough castings | 4.2 | 1.731 | 4.4 | 1.218 |
| Finished castings | 2.1 | 1.541 | 1.9 | 914 114 |
| Other manu factures |  | 1.394 |  | 678 |
| Copper wire in coils (including uninsulated electric wire) and other manufactures | 8.2 | 2.055 | 14.3 | 2. 290 |
| Wire of non-ferrous metals other than aluminium, and copper and alloys | Th. cwts. 21.4 | 817 301 | $\begin{aligned} & \text { Th.cwts. } \\ & 49.5 \end{aligned}$ | 785 |
| Iron and steel | Th. tons |  | Th. tons |  |
| Iron castings | 3.5 | 260 | 4.6 | 343 |
| Other manu factures | $\stackrel{16.8}{.8}$ | 1.089 ${ }_{200}$ | 1.3 | ${ }_{56}^{321}$ |
| Machinery and other engineering products | . | 2.809 | . | 2.142 |
| Chemical manu factures | .. | 7.097 | ... | 3.330 |
|  | Th. cwts. |  | Th.cwts. |  |
| Paints, vamishes and enamels Hardware, metal furniture and sheet metal goods | 59.2 | 756 965 | 113.1 | 567 |
| Hardware, metal furniture and sheet metal goods Other goods |  | 965 5.800 |  | 4. 176 |
| Scrap metals sold | Th. tons |  | Th. tons |  |
| Aluminium and aluminium alloys | 20.5 | 1.665 | 27.5 |  |
| Copper | 12.5 | 2,410 | 18.6 | 2.344 |
| Brass, including all alloys of copper but excluding nickel alloys other than nickel silver | 18.6 | 2.942 | 26.8 | 1.900 |
| Lead | 1.3 | 165 | 1.4 | 102 |
| zinc | 1.2 | ${ }_{68}^{117}$ | 0.7 | 24 |
| Iron and steel | 90.3 | 466 | 92.3 | 304 |
| Other metals | 6.9 | 838 | 1.6 | 174 51 |
| Work done for the trade or on commission (a) |  | 211 |  | 33 |
| Total |  | 38. 515 |  | 24,788 |

(a) Including sheet.
(c) Including type-metal.
(d) Including chromium metal.
(e) Including chromium metal.
(f) Amont trates, metallic residues, wastes, eto. not elsewhere specified.


## Aluminium and aluminium alloys

Ingots and notch bars. virgin
Ingots and notoh bars, secondary
Total ingots and notch bars
Blocks, slabs, billets and wi rebars
Total ingots. not toh bars. blocks.
slabs, billets and wirebars (f) Sheots, plates and strip (flat or in coil),
exceeding 0.006 inches in thickness Pure
Alloy

## Alloy Corrugated

Other
Total sheets. etc. exceeding 0.006
inches in thickness Discs, cir rcles and slugs, exceeding 0.006
inches in thickness Pure
Alloy

Total discs. etc.. e ex
inches in thickness
Total sheets. di scs. etc.
0.006 inches in thickness Bars (other than noteh bars and wi rebars).
rods. angles. shapes and sections Pure
Alloy Tubes
Pure
Pure
Alloy
Foil (strip. etc. not exceading 0.006
inches in thickness)

Castings. forgings and stampings
Porder, flake and granulated
$\underset{\substack{\text { Bi manuth } \\ \text { bi manuth }}}{\substack{\text { metal }}}$, not including alloys of
table 11

| TABLE 11 (contd.) |  |  |
| :--- | :--- | :--- | :--- | :--- |
|  |  |  |

[^0]

[^1]TABLE 13 (contd.)
(ii) Administrative, technical and clerical employees(e)

|  | United Kingdom |  |  | Great Britain |  | United Kingd |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1951 | 1950 | 1949 | i9 49 (c) | 1948 | 1937 | 1935 |
| Males Under 18 All ages | $\begin{array}{r} 466 \\ 13.665 \end{array}$ | $\begin{aligned} & 429 \\ & 13,052 \end{aligned}$ | 12.$491(\mathrm{f})$ <br> 1 f$)$ | .. | $\begin{array}{r} 430 \\ 11.706 \end{array}$ | 5,535 | 4.807 |
| Under 18 | $\begin{aligned} & 1.003 \\ & 7.187 \end{aligned}$ | $\begin{array}{r} 971 \\ 6.721 \end{array}$ | $\begin{gathered} 992(f) \\ 6,433(f) \end{gathered}$ | .. | $\begin{array}{r} 913 \\ 6,209 \end{array}$ | $\begin{aligned} & 426 \\ & 2.002 \end{aligned}$ | $\begin{array}{r} 278 \\ 1.642 \end{array}$ |
| Total Under 18 All ages | 1.469 $20.852(\mathrm{~g})$ | 1.400 $19.773(\mathrm{~g})$ | $\begin{aligned} & 1.483(\mathrm{~g}) \\ & 18.763(\mathrm{~g}) \end{aligned}$ |  | $\begin{gathered} 1.343 \\ 17.915(\mathrm{~g}) \\ \hline \end{gathered}$ | $\begin{array}{r} 976 \\ 7.537 \\ \hline \end{array}$ | $\begin{array}{r} 639 \\ 6.449 \\ \hline \end{array}$ |

> (iii) Total employees

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






(f) Corrected figure.
(g) Working propriet. In addition working proprietors. shown in Table $13(\mathrm{iv})$ below. were engaged in this
trade in larger establi shments.

|  | United Kingdom |  |  | Great Britain |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1951 | 1950 | 1949 | 1949 | 1948 |
| Males Females | $\stackrel{48}{1}$ | ${ }_{5}^{50}$ | 5 | ... | ${ }_{6}^{44}$ |
| Total | 49 | 55 | 55 | .. | 50 |

## Average employment



Shift working, 1951 (a)
Larger establishments in Great Britain
table 15

| Total number of man-shifts worked in the week | Total number of hift-hours worked in the week | Number of eturns showing the systems stated |
| :---: | :---: | :---: |
| 113.494 | 908.436 | 95 |
| $\begin{gathered} -.075 \\ 46.023 \\ 9 \end{gathered}$ | $\begin{array}{r} 459.079 \\ 80.930 \end{array}$ | $\begin{aligned} & 7_{1} \\ & 10 \end{aligned}$ |
| 168. 592 | 1.448.445 | (b) |

(a) Shift working during week ended September 22. 21051,
(b) The number and percentage of returns showing shift

|  | Returns |  | Operatives |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\underset{\substack{\text { Total } \text { in }^{\text {in }} \\ \text { trade }}}{ }$ | $\underset{\substack{\text { Showing } \\ \text { shift-work }}}{\text {. }}$ | Total in trade |  | Number employed on shift- <br> on shift work |
| Number <br> Percentage of total in trade Percentage of total on returns showing shift-work | 100.0 | $\begin{aligned} & 153 \\ & 34.0(\mathrm{c}) \end{aligned}$ | 100.0 | 64.668 <br> 74.01 (a) <br> 100.0 | 31,056 <br> $36.0(\mathrm{c})$ <br> 48.0 |

(c) Rounded to avoid di sclosure

Wages and salaries and employers' National Insuranc contributions paid during the yea


Plant, machinery and vehicles - acquisitions and disposals, and capital expenditure on new building work

| TABLE 17 |  |  |  | £'000 |
| :---: | :---: | :---: | :---: | :---: |
|  | United Kingdom |  | Great Britain |  |
|  | 1951 | 1949 | 1949 | 1948 |
| $\underset{\substack{\text { Plant, machinery } \\ \text { Acquisitions }}}{\text { and vehicles }}$ |  |  |  |  |
|  |  |  |  |  |
| $\underset{\substack{\text { Ner } \\ \text { Second-hand }}}{\text { der }}$ | 5.666 ${ }_{254}$ | 5.357 200 | 5.357 | 3.995 ${ }_{943}$ |
| - |  |  |  |  |
| $\stackrel{\text { Sew }}{\text { Second-hand }}$ | ${ }_{136}^{493}$ | 225 56 | 225 56 | 270 69 |
| Total acquisitions | 6,550 | 5.838 | 5.838 | 5, 277 |
| Disposals <br> Plant and machinery <br> Vehicles | 148 90 | 181 38 | 181 38 | ${ }_{171}^{285}$ |
| Total disposals | 238 | 219 | 219 | 456 |
| New building work <br> Capital expenditure on new building and other constructional work of a capital nature (excluding site values and development charges) | 1.395 | 1.465 | 1.465 | 1.033 |


| TABLE 20 ( |
| :--- |

    Copper
    Unwrought; ingots, blocks, slabs, bars,
    billets, cakes. cathodes and amodes.
billets, cakes. cathodes and anodes.
including rough copper of 94 per cent.
copper content or over
Plates, sheets or strip (including high
conductivity strip)
conductivity strip)
Rods and sections, shapes and angles and
Wire rods of high conductivity
Other rods amd sections and wire not
coils, rolled
Shapes and angles
Tube shells
Tubes
Copper castings other than engineers and
mechanicians $\mathbf{s}^{\prime}$ goods
mechanicions goods
Wire rods other than of high conductivity;
other rods and sections and wire not in
coils, extruded; and other manu facture
f copper except wire in coils and
of copper, except wire in coils and
engineers' and mechamicians' goods
Total copper and manufactures
Lead
Unwrought in pigs, ingots, blocks, bars,
slabs and cakes; pipes; collapsibl
$s$ of lead
Sheet
Foil
Lead shot
Antimonial and tinny lead
Other manu factures of lead
To tal lead and manufactures

Magnesium and magnesium alloys Castings
Ingots. sticks. slabs and billets, and manu factures of magnesium and magnesium
alloys other tham castings

To tal magnesium and magnesium alloys

| N | $\stackrel{\text { - }}{\stackrel{\text { a }}{ }}$ | $\stackrel{\text { ¢ }}{\stackrel{1}{2}}$ | : |  |  | : $\dot{\sigma}$ | $\stackrel{\circ}{\infty}$ |  | cru in | $\stackrel{\text { \% }}{\text { ¢ }}$ | : | H |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { in } \\ & \text { in } \end{aligned}$ | $\stackrel{N}{\stackrel{\sim}{\omega}}$ | $\begin{aligned} & \mathrm{N} \\ & \vdots \\ & \sim \\ & \sim \end{aligned}$ | ® |  | a | $\underset{\sim}{\omega} \stackrel{N}{i}$ | N |  | N $\sim$ $\sim$ $\sim$ | $\stackrel{\text { ¢ }}{\stackrel{\text { en }}{\text { a }}}$ | ล |  |
|  | , | , | : | : 1. ${ }^{\text {a }}$ |  | ' | , | i' ' | , | , | : | H $\stackrel{\rightharpoonup}{+}$ $\stackrel{0}{0}$ 0 |
| , | , | , | ล | ®. ${ }^{\text {® }} \stackrel{\infty}{\stackrel{\infty}{\sim}}$ | ® |  |  | が $\sim_{\sim}^{\infty}$ | , | , | Q |  |
| $\underset{\sim}{N}$ | $\stackrel{\stackrel{\rightharpoonup}{*}}{\stackrel{+}{\infty}}$ | $\begin{aligned} & \stackrel{\rightharpoonup}{\circ} \\ & \stackrel{1}{2} \end{aligned}$ |  |  |  | : |  |  | cr in | $\stackrel{\text { \% }}{ }$ | $\stackrel{N}{*}$ | - |
| $\begin{aligned} & \stackrel{\rightharpoonup}{i} \\ & i \\ & \Delta \end{aligned}$ | $\stackrel{N}{\stackrel{\rightharpoonup}{\omega}}$ | $\begin{aligned} & N \\ & \stackrel{\sim}{\infty} \\ & \sim \end{aligned}$ | $\begin{aligned} & \stackrel{\omega}{\stackrel{1}{*}} \\ & \stackrel{\sim}{\omega} \end{aligned}$ |  | ® | ${\underset{\sim}{\omega}}_{\stackrel{N}{\omega}}^{\omega}$ | ® |  | N N N |  | ¢ |  |
|  | , | , | , | 1 , ' ' ' |  | , | : | 1 ' ' | , | , | , |  |
| , | , | , | , | ' ' ' ' | ® |  | $\bar{\sigma}$ | 1 1 ' | , | , | , |  |
| $\begin{gathered} N \\ \stackrel{\rightharpoonup}{n} \\ \hline \end{gathered}$ | $\begin{aligned} & \stackrel{\star}{+} \\ & \stackrel{+}{\infty} \end{aligned}$ | $\begin{gathered} \stackrel{\rightharpoonup}{\Omega} \\ \vdots \\ \hline \end{gathered}$ |  |  |  | : | $\stackrel{\circ}{\infty}$ | A ${ }_{\sim}^{*}$ | en | $\stackrel{\text { ¢ }}{\substack{\text { i }}}$ | $\stackrel{\sim}{*}$ | H <br> $\stackrel{\rightharpoonup}{8}$ <br> $\stackrel{\rightharpoonup}{8}$ <br> 0 |
| - | $\stackrel{N}{\stackrel{\rightharpoonup}{\omega}}$ | N | $\stackrel{\sim}{\sim}$ |  | - | $\underbrace{\stackrel{\rightharpoonup}{\circ}}_{-1}$ |  |  | N $\sim$ $\infty$ 0 | $\stackrel{\text { - }}{\stackrel{1}{*}}$ | $\begin{gathered} c \\ i \\ i \end{gathered}$ |  |

TABLE 20 (contd.)

Principal products (contd.)
Nickel and nickel alloys (other than nickel
silver). and manufactures thereof, except
wire of nickel alloy

Tin
Blocks, ingots, bars and slabs
Foil
Solder, soft; collapsible tubes of tin:
other momufactures of tin other manufactures of tin

Total tin and manufactures thereo $f$
Zinc or spel ter
Unwrought in ingots, blocks, bars, slabs
and cakes: sheet. strip. piates, foil.
discs and circles; zinc dust discs and circles; zinc dust
Zinc alloy ingots (for die-castings) Zinc alloy pressure die-castings
Other manu factures of zinc
Total zinc and manufactures thereof
White metal alloys
Un wrought or partly wrought
Type metal
Other sorts, including anti-friction
Wrought or monufactured
Printing type
Other manufactures
Tatal white metal alloys and
manufactures thereof manufactures thereof

| England and Wales |  | Scotland |  | Great Britain |  | Northern Ireland |  | United Kingdom |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Quantity | Value | Quantity | Value | Quantity | Value | Quantity | Value | Quantity | Value |
| Th. $\operatorname{tons}$ | £'000 | Th.tans | $\varepsilon^{\prime} 000$ <br> (a) | Th. $\tan \mathrm{s}$ <br> 32.9 | $\begin{aligned} & £^{\prime} 000 \\ & \\ & 16.704 \\ & 37 \end{aligned}$ |  | $£^{\prime} 000$ | Th.tons | £. 000 |
|  | (a) |  |  |  |  |  |  | 32.9 <br> .. | $\begin{array}{r} 16.704 \\ 37 \end{array}$ |
| $0.6$ | (a) 568 | $\stackrel{-}{-}$ | (a) <br> (a) | $\begin{array}{r} 28.4 \\ 0.6 \end{array}$ | 28.036 | - | - | 28.4 | 28,036 |
|  |  |  |  |  | 568 |  | - | 0.6 | 568 |
|  | (a) |  |  | $\stackrel{22.6}{ }$ | $\begin{array}{r} 11.782 \\ 177 \end{array}$ | ) |  | 22.6 | $\begin{array}{r} 11.782 \\ 177 \end{array}$ |
|  | (a) |  | (a) |  | 40,563 | - | - |  | 40,563 |
| $\begin{gathered} 93.7 \\ \text { Th. cwts. } \\ 667.8 \end{gathered}$ | 16.534 | $\begin{gathered} 0.6 \\ \text { Th. cwts. } \\ \hline \end{gathered}$ | 98 | $\begin{gathered} 94.4 \\ \text { Th. cwts. } \\ 667.8 \end{gathered}$ | 16.632 | - | - | 94.4 Th. cwts. \% | 16.632 |
|  | 6. 194 |  | - |  | 6.194 | - | - | Th. Cwts. 667.8 | 6.194 |
|  | (a) |  | (a) | 399.9 | 6.838 | - |  | 399.9 | 6.838 |
|  |  | . |  | 18.6 | $\begin{array}{r} 229 \\ 73 \end{array}$ |  |  | $18.6$ | $\begin{array}{r} 229 \\ 73 \end{array}$ |
|  | (a) |  | (a) |  | 29,965 | - | - |  | 29.965 |
| 122.2$\ldots$0.2 | (a) | . | (a) | $\begin{array}{r} \text { Th. } \operatorname{ton} \mathrm{s} \\ 9.8 \end{array}$ | 2. 239 | - | - | $\begin{array}{\|r\|} \hline \mathrm{Th} . \operatorname{ton} \mathrm{s} \\ 9.8 \end{array}$ | 2,239 |
|  | 4, 474 | 8.6 | 228 | 130.8 | 4.702 | - | - | 130.8 | 4,702 |
|  | (a) |  | (a) | $\begin{aligned} & 11.2 \\ & . . \end{aligned}$ | $\begin{aligned} & 338 \\ & 125 \end{aligned}$ | - |  | $\begin{gathered} 11.2 \\ .2 \\ 0.2 \end{gathered}$ | $\begin{aligned} & 338 \\ & 125 \end{aligned}$ |
|  |  |  |  | 0.2 | 4 | - | - |  | 4 |
|  | 7.078 |  | 330 |  | 7,408 |  | - |  | 7.408 |

Bismuth (metal) not including alloys of
bismuth; cadmium; manganese metal and bismuth; cadmium; manganese metal and
tungsten in all forms except ferro-tungste
Other non-ferrous metals and alloys of Other non-ferrous metals and alloys of
metals including omtimony and manufactures
of an timony but excluding precious metal s of an timony but excluding precious metals Miscellameous mamufactures, etc.

Concentrates, metallic residues
etc. not elsewhere specified Lighter flints; metallic packings; hard metal po wder (including tungsten
carbide powder and matrix) and othe finished non-ferrous metal products Work done for the trade or on commission (c)
Repair work (c)
Total principal products
Other output
Aluminium and aluminium alloys Wi re
Domestic hollow-ware and other manu factures
Brass. and other copper alloys, including nickel silver, but excluding all other
nickel alloys Wire in coils
Rough castings
Finished castings
Other manu factures
Copper wire in coils, (including uninsulated
electric wire and other manu factures
Wire of non-ferrous metals other than
aluminium and copper and alloys
I ron and steel
I ron castings
Other manu factures


| TABLE 20 (contd.) |
| :--- |

[^2]Stocks of products on hand for sale and work in progress, and stocks of materials and fuel

Larger establishments

|  |  | England and Wales | Scotland | $\begin{aligned} & \text { Great } \\ & \text { Britain } \end{aligned}$ | Northern Ireland | United <br> Kingdom |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Products on hand for sale | $\left\{\begin{array}{l}\text { at beginning of year } \\ \text { at end of year }\end{array}\right.$ | $\begin{aligned} & 13.336 \\ & 16.667 \end{aligned}$ | $\begin{aligned} & 849 \\ & 902 \end{aligned}$ | $\begin{aligned} & 14,185 \\ & 17,568 \end{aligned}$ |  | $\begin{aligned} & 14,185 \\ & 17,568 \end{aligned}$ |
| Work in progress | $\left\{\begin{array}{l} \text { at beginning of year } \\ \text { at end of year } \end{array}\right.$ | $\begin{aligned} & 18.325 \\ & 20.557 \end{aligned}$ | $\begin{array}{r} 975 \\ 1.057 \end{array}$ | $\begin{aligned} & 19,300 \\ & 21.614 \end{aligned}$ | - | $\begin{aligned} & 19,300 \\ & 21,614 \end{aligned}$ |
| Total products on hand for sale and work in progress | $\left\{\begin{array}{l} \text { at beginning of year } \\ \text { at end of year } \end{array}\right.$ | $\begin{aligned} & 31,661 \\ & 37.224 \end{aligned}$ | $\begin{aligned} & 1.825 \\ & 1.959 \end{aligned}$ | $\begin{aligned} & 33.485 \\ & 39.183 \end{aligned}$ | - | $\begin{aligned} & 33.485 \\ & 39,183 \end{aligned}$ |
| Materials and fuel | $\left\{\begin{array}{l}\text { at beginning of year } \\ \text { at end of year }\end{array}\right.$ | $\begin{aligned} & 26,381(\alpha) \\ & 32,258(\alpha) \end{aligned}$ | $\begin{aligned} & 1.215 \\ & 1.735 \end{aligned}$ | $\ldots$ | $\begin{aligned} & (\alpha) \\ & (\alpha) \end{aligned}$ | $\begin{aligned} & 27.596 \\ & 33.993 \end{aligned}$ |

(a) Owing to the risk of disclosure of information relating to individual firms, particulars for Northern Ireland cannot be given separately and have been included with those for England and Wales.

Employment in September

TABLE 22
Larger establishments $(a)(b)$

|  | England and Wales (c) | Scotland | Great Britain | Northern Ireland | United Kingdom |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Males Under 18 All ages | $\begin{array}{r} 1.663 \\ 68.566 \end{array}$ | $\begin{array}{r} 88 \\ 4.992 \end{array}$ | $\cdots$ |  | $\begin{array}{r} 1.751 \\ 73.558 \end{array}$ |
| Females Under 18 All ages | $\begin{array}{r} 548 \\ 12.982 \end{array}$ | $\begin{array}{r} 15 \\ 588 \end{array}$ | .. | .. | $\begin{array}{r} 563 \\ 13.570 \end{array}$ |
| Total Under 18 All ages | $\begin{array}{r} 2.211 \\ 81,548 \end{array}$ | $\begin{array}{r} 103 \\ 5,580 \end{array}$ | $\ldots$ | $\ldots$ | $\begin{array}{r} 2,314 \\ 87.128 \end{array}$ |


|  | England and Wales (c) | Scotland | Great Britain | Northern Ireland <br> (c) | United Kingdom |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Males |  |  |  |  |  |
| Under 18 | 449 | 17 | . | . | 466 |
| All ages | 12.885 | 780 | . | . | 13.665 |
| Females |  |  |  |  |  |
| Under 18 All ages | $\begin{array}{r} 956 \\ 6.776 \end{array}$ | 47 411 | $\cdots$ | $\ldots$ | 1.003 7.187 |
| All ages | 6.776 |  |  |  |  |
| Total |  |  |  |  |  |
| Under 18 All ages (d) | 1.405 19.661 | $\begin{array}{r} 64 \\ 1.191 \end{array}$ | $\ldots$ | $\ldots$ | 1.469 20.852 |

[^3]| (iii) Total employees |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | ${ }_{\text {England and Wales }}^{\text {(c) }}$ | Scotland | Great Britain | ${ }_{\text {Northerm }}^{\text {(c) })^{\text {Ireland }} \text { ( }}$ | United Kingdom |
| Males <br> Under 18 <br> All ages | 2.112 81.451 | $\begin{array}{r} 105 \\ 5.772 \end{array}$ | $\because$ | $\ldots$ | 2. 217 87.223 |
| $\begin{aligned} & \text { Under } 18 \\ & \text { All ages } \end{aligned}$ | $\begin{gathered} 1.504 \\ 19.758 \end{gathered}$ | ${ }_{999} 9$ | :. | : | 1.566 20.757 |
| Total <br> Under 18 <br> All ages (d) | $\begin{array}{r} 3.616 \\ 101.209 \\ \hline \end{array}$ | ${ }_{6.771}^{167}$ | .. | .. | 3.783 107,980 |

 engaged, for example, in merchanting and in Northern Irelamd canteen and welfare workers) are shown in
Table $22(v)$ below
(b) Number employed in. the weok ended Sep tember 22. 1951 .
(c) Owing to the risk of disclosure of in fo mation relatit

Irel and cannot be given separately information relating to individual firms particulars for Northern

(iv) Working proprietors

| (iv) Working proprietors |  |  |  |  |  |  |
| :--- | :--- | :---: | :---: | :---: | :---: | :---: |
|  | England and wales | Scotland | Great Britain | Northern Ireland | United Kingdom |  |
| Males <br> Females | 41 | (e) | $\ldots$ | (e) | 48 |  |
| Total |  |  |  |  |  |  |


| ed emp |  | Number |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | ${ }_{\text {England }}^{\text {(e) }}$ (end Wares | Scotland (e) | Great Britain | Northern Ireland | United Kingdom |
| Canteen workers Males Fenales | . | : | $\begin{array}{r} 101 \\ 1.192 \end{array}$ | : | 101 1.192 |
| Total | .. | .. | 1.293 | - | 1.293 |
| Other workers ales Females | . | .. | ${ }_{225}^{295}$ | : | ${ }_{225}^{295}$ |
| Total | . | .. | 520 | - | 520 |
| Total excluded employees | .. | .. | 1.813 | - | 1.813 |

Average employment
Larger establishments (a)

| TABLE 23 |
| :--- |


| TABLE 24 |
| :--- |

Plant, machinery and vehicles - acquisitions and disposals, and capital expenditure on new building work

|  | England and | Scotland | Great | Northern <br> Ireland | United Kingdom |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Plant, machinery and vehicles Acquisitions <br> Plant and machinery New <br> Second-hand Vehicles New <br> Second-hand | $\begin{array}{r} 5.106 \\ 253 \\ 471 \\ 134 \end{array}$ | $\begin{array}{r} 559 \\ 2 \\ 22 \\ 32 \end{array}$ | 5.665 254 493 136 | : | 5.666 254 294 436 |
| Total acquisitions | 5.964 | 586 | 6.549 | - | 6.550 |
| Disposals <br> Plant and machinery <br> Vehicles | ${ }_{86}^{107}$ | ${ }_{4}^{41}$ | 148 90 | : | 148 90 |
| Total disposals | 193 | 45 | 238 | - | 238 |
| New building work Capital expenditure on new building and capital expendictional work of a capital onture (excluding site values and development charges) | 1.282 | 113 | 1.395 | - | 1.395 |



## general notes


Larger establishments and small firms: Larger estabsons on the average during the yare san fil firms
are those employing on the average 10 or fever persons. Working proprie tors are proprietors of businesses
other than timited companies, and include members of their familiies who work in the bisiness without
receiving fixed wages or salaries Any persons work-
ing less than half the no rmal hours are excluded. Persons employed: Admin is trative employees includde
directors other than those paid by fee only, managers.
 (other than operatives); draughtsmen and tracers:
and travellers and office (including works office) employes. ODeratives include ad other classes of
employees. that is. broadly speaking. all manual rkers.

tely as excludd employes.

$$
\begin{aligned}
& \text { Figures for employees include only persons on } \\
& \text { the pay-roll (that is whes National Insurance cards } \\
& \text { (ere hold by the firm). Whether full-time or part } \\
& \text { time employees. }
\end{aligned}
$$

Outworkers,
 by the firm. but do not work on the peremises supplied opera-
tives directly employed who work out of doors le.g. tives airecty employed who work out of doors (e.g.
maintenance vorkers) and sub-contractors are not
includan as outworkers. Wages and salaries inclu
ages and salaries Include all overtime payments,
bonuses, and conis sions, Ni thout any deduction for
income tax, insurance, contributer income tax, insurance. contributory pensions. otce.
They exclude payments to working propriotors. Capital expenditure: Expenditure on plant, machinery
and vehicles relates to expendi ture charged to capi tal account during the year of return, including tran-
 Materials and fuel: The cost of materials and fuel pur-
chased includes ali purchases during the year of materlals. for use in production and of fuel lincluding ofl.
 purchase
charges
chan nge. plant and vehioles when carried out by

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[^0]:    (93200/1)

[^1]:    (a) Figures of production (or soles) refer only to larger establishments in the United Kingdom (1951 am
    
    
    (d) Inccuding sticks. and granules.
    
    
    
    
    (n) Sales. partly estimated.
    (p) Exeeeding 0 . 0 on inches in thickness only.
    (q) ncluding type metal and other sorts of white metal alloys, unwrought or partly wrought.

[^2]:    (a) Owing to the risk of disclosure of information relating to individual firms, separate particulars cannot be given.
    (b) Owing to the risk of disclosure of information relating to individual firms, particulars for Northern Ireland cannot be given
    b) Owing to the risk of disclosure of information relating to individual
    (c) Amount charged.

[^3]:    ( continued overleaf)

