## The Report on the <br> Census of Production for 1954

Volume 3: Industry G
NON-FERROUS METALS (SMELTING, ROLLING, ETC.)


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

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## VOLUME 3 INDUSTRY G

NON-FERROUS METALS (SMELTING, ROLLING, ETC.)

THIS REPORT on the Non-Ferrous Metals (Smelting, Rolling, etc.) Industries relates to estabishments engaged wholly or mainly in the manufacture of non-ferrous metals (other than precious metals) from the preliminary stage. Those whose chief business is the production of goods advanced metals) the semi-finished stage are dealt with in reports on other industries, e.g., Brass Manufactures Wire and Wire Manufactures: Hardware, Hollow-ware, Metal Furniture and Sheet Metal

These industries correspond to minimum list heading 49 in the Standard Industrial $\mathrm{Classification}$.

| Table No. | List of tables |  |  |  |  |
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IMPORTANT NOTES and definitions appear on the next page. In interpreting the data in the tables, it is essential to bear these in mind.
 Hons of the terus used and a descrittion of the scope
nd arethod of taking thensus are given in the separ-
te booklet entitled The Reus tre (price 1s. 6d.
Industrial Classification: Establishments are classif-
ied to industries according to the nature of their out-
 atand
are identifused as the principal products of in individual
industries. the principal products for a given industry industries. the principal products for a given industry
being of a similiar nature or commonly asociated in pro-
ducion

 industry accounted for a greater proportion of the value
of its output than idid its output of the principal pro-
dis
Specialist producers normally comprise those establishalue is accounted for by the characteristic products of the specialist group.
Intermediate products: For some industries figures are
given showing the toral quantitities made during the year
of intermediate products. is ie of intermediate products. i.e. products mich may be
further processed in the estabishments in which they fur the r proce
are produced.
Larger establishments: The information given in the re
port relates mainly to Tharger establishments. establishments of firms employing on the average more
than 10 persons. In mos coses an establishment comprises the whole of the premises under the same owner-
ship or management at a particular address $(e . g$.. $a$ mine
 the producing works are not regarded as separate estab-
lishmente and are included in the return for the works. Small 1 firms are those employing on the average 10 or
ferer persons. The estimates for the industry as a whole given in
able 1 are normally obtained by increasing the othe tems shown in the same proportion as total employment. Gross output (procuction iis the total value of goods
made ond other nook done uring the year: it it obtain-
ed by adisting the value of sales and work done during ed by adjusting the value of sales and work done during
the yara for changes in the value of stocks of products
on hand for sale and work in progress. Net output is the amount left after deducting from the
value of gross output the aggregate of the cost of matalue of gross output the aggregate of the cost of mat.
rials and fuel used, the anout paid for work iven out.

 ther selling expenses and all other similar charges
ave to be met. as well as depreciation and profits. Sales means sales during the year of goods ade in the
establiahment covered by the return or made on commise ion for it whe ther produced in the year or not. The
value of sales is the net selling value. i.e. the
 tax. etc. For goods charged on a delivered basis to
cuatomers verseas. firms were required to give the
f.o.b. value.

Materials and fuel: The total cost of materials and fuel purchased inciudes all purchases during the year
of materials for use in production, and of fuel (includ-
ing oil. gas and electricity for all purposes ab packing
materiais. including the full cost of returnale case
wher


 Purchases of goods for merchanting are excluded. The
cobt of materitis ond fuel used. fiven in Table
obtained by adus is
oting purchases for changes during the obtained by adjusting purcha
year in the value of $s$ tocks.
Stodks: Firms nere required to give stocks of materials
and fuel . products on hand for sale. and work in pro-
aresu at income tax walues. Customs and Excise Dutues. normally included in the cost of materials. Finished
goods are similialy valued as they were sold. duty-paid
or duty-free.
 Employment Total
 and operatives, but excludes outworkers. canteen employ
ees and persons engaged in merchant ing or any other act
 separately as excluded employees. Employes are per
sons on the par-roll tio. persons whose National In.
surance cards wore held by employers). whe ther emplo. surance cards were held by employers). whether employe
full-time or part-time. horking proprietors are
 fomilies who worked in the business without receiving
fixed wages or salaries. Any persons working less than
half
 paid by fee only) are also included
Administrative, technical and clerical employees include
directors. other than those paid by fee only (except in
 foremen, research, experimental, development, technica
and design employes (other than operatives): (draughts
 Operatives include all other classes
broadly speaking, all manual workers.
Operatives include all other classes of employees. i.e.
broadly speaking, all manual workers. Outworkers are persons employed by the firm who work
materials supplied by the firm in their own homes. Wages and salaries include all overtime payments, bonus
 insurances. contributory pensi
payments to working proprietors.
Capital expenditure includes expenditure on new building
work. and on plant. machinery and vehicles. aharged to mork, and on plant, machinery and vehicles, charged
capital account during the year. including any transpor
 ture in respect of establishments in Great Britain which
had not be qun production before the end of the year
(which has not previously been included in the Census of (which has not previously been included in the
Production reports for individual industries). Symbols used:
for nil or negligible (less than half the final
digit shown).
argit sinowial.

Where figures are rounded, e.g. given to the near-
est thousand. there may be cparent silight discrepan-
cies the tueen the sums of constituent item and the tot. est
cies betwen the sums of constituent iteman and the tot-
als shown. In some cases. figures have been combined ith others of a similar nature where publicationo


NON-FERROUS METALS (SMELTING, ROLLING, ETC.

(a) Capital expenditure on new building work, plant, machinery and vehicles (including (except in 1948 ) that
incurred in Great Britain for estatalishments not yet in production). less amounts received for plan t.
machinery and vehicles disposed of.
incurred in Great Britain for estatishments not yet in production
machinery and vehicles di sposed of.

| TABLE 2 |
| :--- |

(a) Amended figure.
(b) For the year 1948 gross output excludes payments for transport services outwards on finished goods sold
For subsequent years gross output includes payments to other firms and undertakings and to firms own For subsequent years gross out teut includes payments to o ther firms and undertakings and to frims own
separate transport organisations for transport services.

Year 194 payment cover only transport
cover payments for transport of both fin
cor fin
(d) Number in week ended September 25, 1948 .
(d) Number in wek ended September 25, 1948 .
(e)
Excluding outworkers and including working proprietors


| Ave rage numberemployed (a) | $\begin{aligned} & \text { Es tab- } \\ & \text { lish- } \\ & \text { lisent } \end{aligned}$ | ${ }_{\text {Gross }}^{\substack{\text { Gross } \\ \text { output }}}$ | $\begin{gathered} \text { Net } \\ \text { output } \end{gathered}$ | Employees |  | Wages and salaries |  | $\begin{gathered} \text { Capital } \\ \text { expendi ture } \\ \text { (b) } \end{gathered}$ | $\left.\begin{array}{\|c} \text { Net out put } \\ \text { per perbon } \\ \text { employ } \\ \text { (a) } \end{array}\right)$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | es | Others | peratives | Others |  |  |
|  | Number | $\varepsilon^{\prime} 000$ | $£^{\prime} 000$ | Number | Number | £. 000 | \&. 000 | ¢. 000 | $\varepsilon$ |
| 11-24(c) | 111 | 7.592 16.283 16 | ¢1.819 <br> 3.605 | 1.449 2 2 8 | 354 <br> 693 <br> 9 | -650 | ${ }^{2176}$ | ${ }_{208}^{108}$ | 1.001 |
| 25-49 | ${ }_{91}^{101}$ | $\xrightarrow{16.283}$ 35.247 | ¢3.605 <br> S.750 <br> 1 | ${ }_{5}^{2.843} 5$ | 1.0993 | ${ }_{\substack{1.332 \\ 2.347}}^{1.651}$ | ${ }_{779}^{474}$ | 2081 349 | ${ }^{1.017}$ |
| $100-199$ | 72 | 50. 157 <br> 154 | 10.650 | ${ }_{8}^{8.237}$ | 1.883 | 4.074 | 1.286 | ${ }_{732}$ | 1.052 |
| $200-299$ 300 | 20 13 | 19.854 60.907 | 4.450 <br> 5.542 |  | ${ }_{992}^{983}$ | 1.758 <br> 1.872 <br> 1.89 | 638 638 | 335 367 | 1.928 |
| $400-499$ | 12 | 29.504 | 4.468 | 4.171 | 1.225 | 2.000 | 655 | 521 | 828 |
| 500-749 <br> 750 <br> 999 | ${ }_{12}^{20}$ | 41.388 40.547 | 10.834 | ${ }^{9.899}$ | 2.058 | 4.897 | 1.274 | 1.249 | ${ }_{906} 8$ |
| 750 - 999 | 12 | ${ }^{40}, 547$ | 10.045 | 8.108 | 2.157 | 4.340 | 1.299 | ${ }_{789}$ | 979 |
| ${ }_{1}^{1,000} \mathbf{1 , 5 0 0}=1.4999$ | ${ }_{6}^{12}$ |  | 13.134 10.278 10. | ${ }_{\substack{\text { \% } \\ 7 \\ 7.889 \\ \hline 1.422 \\ \hline}}$ |  | -6.093 <br> 4.040 |  | 1.824 | ${ }_{979} 89$ |
|  |  |  | (10.2787.431 | 7.889 <br> 7.161 | (2.678 <br> 1.795 <br> 1. |  | (1.653 | (628 | ${ }_{830}^{973}$ |
| 2.500 and over | ${ }_{4}^{4}$ | ${ }_{49.291}^{20.691}$ | 15.225 | ${ }_{13.184}$ | ${ }_{3,632}^{1,985}$ | 3.483 6.287 | 1.856 1.853 | $\begin{array}{r}1.438 \\ 1.480 \\ \hline\end{array}$ | ${ }_{905}^{830}$ |
| Total | 478 | 472.181 | 103.230 | 86.947 | 22.897 | 43.142 | 13,886 | 9.022 | 940 |

Analysis according to specialisation within the industry, 1954

|  | Unit | Specialist producers of |  |  |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Aluminium and aluminium alloys |  |  | $\begin{gathered} \text { Copper and } \\ \text { brass } \end{gathered}$ |  | $\left\{\begin{array}{c} \text { Lead } \\ \text { and } \\ \text { lead } \\ \text { alloys } \end{array}\right.$ | $\begin{gathered} \text { Tin } \\ \text { Tind } \\ \text { and } \\ \text { alloys } \end{gathered}$ | $z_{\text {inc }}$ |  |  |
|  |  | Smel- ters and raf fin- ers ers | Fabri- | $\begin{array}{\|c\|} \hline \text { Makers } \\ \text { cost } \\ \text { ost } \\ \text { ings. } \\ \text { intc. } \end{array}$ | Smel- ters and refin- ers ers | Fabri- cators |  |  |  |  |  |
| Number of establishments | No. | 17 | 41 | 111 | 26 | 100 | 42 | 12 | 40 | ${ }^{89}$ | 478 |
|  | £ 000 | 11.775 | 76.074 | 30.159 | 47.280 | 158,825 | 24.254 | 27.758 | 17.172 | 70.3 | 463.648 |
| Soles of characteristic |  | 11.557 | 67.721 | 22.477 | 44.331 | 121.721 | 18.736 | 25,60t | 15,175 |  |  |
| Products on hand for (at beginning |  |  |  |  |  | 13. 924 |  |  |  |  |  |
|  |  | 378 | 6.041 | 1.421 | 1.254 | 13.824 | 862 | 1.780 | 557 | 7.212 | ${ }^{33} 329$ |
|  | $\cdots$ | 89 | + 842 | + 283 | + 683 | +4.282 | + 433 | +1.322 | + 258 | + 335 | +8.534 |
| Gross output (production) | * | 11.863 | 76.916 | 30.442 | 9 | 163.107 | 24,687 | 29,080 | 17.429 | 70,68 | 472.181 |
| urchases and fuel | - | 9.714 | 54.900 | 16.186 | 44. | 132.099 | 21.721 | 25,902 | 11.633 | 50.138 | 366 |
| Stocks of materials | * | 1.012 | S 367 | . 614 | 988 | 8.501 | 971 | 1.283 | 2.203 | 8.268 | 2.20 |
|  | . | + 47 | 248 | 163 |  | + 2.760 | 343 | - 123 | 271 | - 15 | + 2.867 |
| Cost of materials and fuel used | . | 9.666 | 55.148 | 16.350 | 44.209 | 129.339 | 21.378 | 26.024 | 11.362 | 50.153 | 363.629 |
| Payment for mork done on |  |  |  |  |  |  |  |  | 132 |  |  |
| Payment for transport |  |  |  |  | 338 | 1.216 | 256 | 160 | ${ }_{238}$ | 591 | 4.013 |
| Net out put | " | 2.081 | 20.733 | 13.574 | 3.365 | 32.126 | 3.045 | 2.896 | 5.697 | 19.713 | 103.230 |
| Average number of empation $\quad\left\{\begin{array}{l}\text { operatives } \\ \text { others }\end{array}\right.$ | No. | 1.505 | cone21.193 <br> 5.130 | 13.773 2.866 | 2.318 | 25.021 | ${ }_{1}^{1.682}$ | 1.326 | 6.155 1.319 | 13.974 4.578 | 86, 94 22.897 |
|  | " | 2.092 | 26,323 | 16.648 | 2.840 | 31.832 | 2.405 | 1.695 | 7.476 | 18.563 | 109.874 |
| Net output per p employed (a) | $\varepsilon$ | 995 | 788 | 15 | 185 | 1.009 | 1.266 | 1.709 | 762 | 1.062 | 940 |
| $\underset{\substack{\text { Wages and } \\ \text { saliaries }}}{\text { sita }}$ | £ 000 | ${ }_{8}^{811} 3$ | $\begin{gathered} 10.759 \\ 3.050 \end{gathered}$ | 7.136 1.772 | 1.312 365 |  | 811 493 | ${ }_{251}^{591}$ | 2.595 |  | 43.142 13.886 |
| Capital expenditure <br> New building work (b) | " | 20 | 556 | 94 | 8 | 431 | 21 | 32 | 25 | 330 | ${ }_{1} 1.592$ |
| Plant and $\quad\left\{\begin{array}{l}\text { acquis - } \\ \text { itions (b) } \\ \text { disposals }\end{array}\right.$ | .. | 99 | $\begin{array}{r}\text { 2. } 164 \\ 196 \\ \hline 189\end{array}$ | 469 11 | 224 | 2.587 73 | 59 | 161 | 341 10 | 706 59 | 6.809 ${ }^{588}$ |
|  | $\cdots$ | $\begin{array}{r}14 \\ 6 \\ \hline\end{array}$ | $\begin{aligned} & 88 \\ & 16 \end{aligned}$ | $\begin{aligned} & 79 \\ & 27 \end{aligned}$ | 54 14 | $\begin{gathered} 220 \\ 53 \end{gathered}$ | $\begin{aligned} & 40 \\ & 13 \end{aligned}$ | ${ }_{8}^{23}$ | 17 6 | 87 <br> 27 | 620 170 |

[^0]Sales of the principal products of the industry, including sales of these products by establishments classified to other industries

Larger establishments in the United Kingdom

TABLE 5

Light metal and light metal alloys
Aluminium and aluminium alloys
Virgin ingots and notch bars
Virgin and secondary based ingots, notch
bars and sticks
Blocks, slabs, billets and wire bars
Sheets. plates and strip (flat or in coil),
exceeding 0.006 inch in thickness Pure
Alloy
Corrugated
Other
Discs, circles and slugs
0.006 inch in thickness $\qquad$
Pure
Alloy

Foil (strip, ${ }^{\text {et }}$ in thickness)
Bars (other than notch bars and wire burs).
rods. angles, shapes and sections
Pure
${ }_{\text {Tubes }}^{\text {Alloy }}$
Tubes
Extruded
Pure
Extruded
Pure
Alloy
$\underset{\substack{\text { Drawn } \\ \text { Pure }}}{\text { Alloy }}$
Alloy
Collapsible tubes of aluminium

Castings
Forgings and stampings
Powder, flake and granulated
Other manu factures of aluminium and
aluminium alloys, except wire and
aluminium alloy
domestic ware
Total aluminium and alumium alloys
and manu factures thereof
Tagesium and magnesium alloys
Castings
Ingots. sticks. slabs and billets and
other manufactures of magnesium and
other manu facture
magnesi um alloys
Total magnesium and magnesium
alloys

| 1951 |  | 1954 |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Quantity | Value | Quantity | Value | Entries |
| Th.tons | $\varepsilon^{\prime} 000$ | Th.tons | £'000 | Number |
| 135.6 | 18.174 | 14.1 | 2.247 |  |
|  |  | $\begin{aligned} & 98.4 \\ & 35.1 \end{aligned}$ | $\begin{gathered} 16.000 \\ 5.884 \end{gathered}$ | 40 |
| 40.6 | 5.591 |  |  | 15 |
| 69.3 | 14.291 | 69.9 | 16.646 | 16 |
| 10.953.2 | 2.363 | 8.9 | 1,944 | 6 |
|  |  | 40.6 | 12,396 | 16 |
| 14.2 | 3.434 | 16.6 | 4.393 | 9 |
| 1.1 |  | $\begin{array}{r\|r} 1.2 & 327 \\ \text { Th. cwt. } \end{array}$ |  | 9 |
| Th.cwt. | 280 |  |  |  |  |
| $\begin{aligned} & 255.7 \\ & \text { Th. tons } \end{aligned}$ | 5.554 | 300.8 | 7.152 | 11 |
|  |  | Th. tons |  |  |
| $\begin{array}{r} 5.6 \\ 28.1 \end{array}$ | 1.1747.512 | 11.829.0 | $\begin{aligned} & 2.719 \\ & 9.267 \end{aligned}$ | $\begin{array}{r} 8 \\ 11 \end{array}$ |
|  |  |  |  |  |
| 0.72.4 | $236$ | $\begin{aligned} & 0.4 \\ & 2.4 \end{aligned}$ | $\begin{aligned} & 206 \\ & 721 \end{aligned}$ | 811 |
|  |  |  |  |  |
| 1.13.5 | $\begin{array}{r} 437 \\ 1.687 \end{array}$ | 1.14.6 | $\begin{array}{r} 433 \\ 2.253 \end{array}$ | 812 |
|  |  |  |  |  |
| $\begin{aligned} & \text { Th. cwt. } \\ & 10.2 \end{aligned}$ | $\begin{aligned} & 296 \\ & 433 \end{aligned}$ | $\begin{aligned} & \text { Th. cwt. } \\ & 4.9 \end{aligned}$ | $\begin{array}{r} 369 \\ 1.111 \end{array}$ | $\}$ 9 |
| -. ${ }^{\text {a }}$ |  |  |  |  |
| $\begin{gathered} \text { Th. tons } \\ 63.9 \end{gathered}$ | 22.006 | Th.tons |  | 309 |
| 4.9 | 3. 299 | 5.3 | $\begin{array}{r} 24,144 \\ 4.999 \end{array}$ | 18 |
| 5.1 | 824 | 4.5 | 899 |  |
| 0.7 | $\begin{array}{r} 214 \\ 1.135 \end{array}$ | 0.6 | $\begin{aligned} & 268 \\ & 535 \end{aligned}$ | [3 29 |
|  | 103.477 |  | 114.913 | . |
| Th.cwt. |  | Th. cw . |  |  |
| 76.4 | 2.081 | 75.5 | 3.608 | 8 |
| 164.8 | 2,423 | 177.0 | 2.854 | 7 |
| 241.2 | 4.504 | 252.5 | 6.462 | .. |


|  | 1951 |  | 1954 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Quantity | Value | Entries |
| Other non- ferrous metals and alloys <br> Anti mony  $\varepsilon^{\prime} 000$ Th.cwt. $\varepsilon^{\prime} 000$ Number |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| Manufactures of antimony, other than antimonial lead |  | (a) |  |  |  |
|  |  |  | 21.7 | 189 | .. |
|  | Th.lb. |  | Th. 1 b . |  |  |
| Bismuth (metal) not including alloys of bismuth | 652.4 | 848 | 1.070 .0 | 845 | .. |
| Brass and other copper alloys, including <br> nickel silver and cupro-nickel, but excluding <br> all other nickel alloys |  |  |  |  |  |
| Ingots, blocks, slabs, billets, bars (including wire bars) other refinery shapes and cast strip | Th. tons | 32,911 | Th. tons | 10.997 | 59 |
| Brass including manganese bronze |  |  | 54.8 |  |  |
| Other | 34.7 |  | 51.1 | 12.419 | 36 |
| Plates, sheets, foil, strip. discs and circles | 67.9 | 18.307 | 68.6 | 18.687 | 49 |
| Round brass rods | 59.6 | 14.955 | 94.3 | 21.329 | 24 |
| Shapes and angles | 13.5 | 3.678 | 19.0 | 5.159 | 19 |
| Other rods and sections and wire not in coils | 51.0 | 13.520 | 12.1 | 3. 327 | 19 |
| TubesSolid drawn of circular section | Th.cwt. |  | Th. cwt. |  |  |
|  | 301.4 | 5.609 | 380.1 | 7.991 | 38 |
| Other | 12.3 | 283 | 8.0 | 151 | 14 |
| Other manufactures of brass and other copper $\{$ alloys. except castings and wire in coils | 74.3 | 1.252 130 | 119.5 | 1.687 251 | 24 |
| To tal brass etc. and manufacturesthereof |  |  |  |  |  |
|  |  | 90,646 |  | 82.033 |  |
| admium | Th.1b. |  | Th.1b. |  |  |
|  |  | 491 (b) | 431.3 | 256 | 5 |
| Copper |  |  |  |  |  |
| Unwrought: ingots, blocks, slabs, bars, billets, cakes. cathodes and anodes, including rough copper of 94 per centcopper content or over |  |  |  |  |  |
|  |  |  |  |  |  |
|  | Th. tons |  | Th.tons |  |  |
| Fire refinedOther | 33.7 | 7.089 | 126.2 | 31.455 | 19 |
|  | 6.9 | 1.488 | 44.8 | 11.220 | 17 |
| Plates, sheets or strip (other than of high conductivity) | 12.0 | 3.485 | 15.8 | 4.931 | 10 |
|  |  |  |  |  |  |
| 3/8 inch thick and over <br> Other sheets, strip, foil, discs and circles | 7.8 | 2.181 | 5.8 | 1.911 | 11 |
|  | 41.8 | 11.681 | 34.9 | 11.063 | 28 |
| Strip not exceeding $f$ inch in width (high conductivity and other), unclassified | 11.2 | 3,179 | 13.9 | 4.669 | 8 |
| Rods and sections, shapes and angles, and wire not in coils |  |  |  |  |  |
| High conductivity | 55.5 | 12.802 | 90.4 | 24.415 | 8 |
|  | 0.7 | 187 | 0.4 | 125 | .. |


| TABLE 5 (contd.) |
| :--- |

TABLE 5 (contd.)


| TABLE 5 (contd.) |
| :--- | (b) Not recorded separately

(a) Not recorded separately.
(b) Amended fi gure.
(c) Alloys of tin. lead, zinc, antimony, etc., not elsewhere specified.
(c) A11oys of tin. lead, zinc, anti
(d) So far as reorded separately.
(e) Amount charged.

Sales of principal products of the industry by establishment classified to other industries
Larger establishments in the United Kingdom
TABLE 6

| TABLE 6 |
| :--- |



TABLE 6 (contd.)

|  | 1954 |  |  | $\underset{\text { Principal }}{\text { industries in }} \begin{gathered} \text { Which produced }(\alpha) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Entries |  |
|  | Th. tons | $\varepsilon^{\prime} 000$ | Number |  |
| Other non-ferrous metals and alloys (contd.) <br> Metals and alloys of metals and manu factures thereof not elsewhere specified | 0.5 | $\begin{gathered} 264 \\ 224 \end{gathered}$ | 12 | 2E. 3B, 4C, 5K |
| Miscellaneous manufactures, etc.. other than <br> concentrates, metallic residues. wastes, etc. <br> not elsewhere specified <br> Work done for the trade or on commission (b) | .. | $\begin{array}{r} 393 \\ 25 \end{array}$ | 11 | 2E, 4C, 4I, 7A |
| Total |  | 31.319 | . |  |

(a) The volume number and industry references given are to the industries shown in the list at the
back of this rep
(b) Amount charged.
Sales in the industry of other than principal products Larger establishments in the United Kingdom

TABLE 7


Brass and other copper alloys. including nickel silver and
cupro-nickel. but excluding all other nickel alloys
Mire in coils
Circular section, thinner than No. 20 gauge (Imperial
standard wi re gat
standard wi re gauge)
Of brass
Of other alloys of copper
Circular section, No. 20 gauge (Imperial standard wire gauge)
and thicker. of brass. and of other alloys of copper
description
Rough castings
Rough castings
Engineers. and mechanicians' goods (including fittings for
water supply)
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
Wire of non-
and alloys
ron and steel
Iron castings
Other manu factures
Paper coated or faced on one or both sides with metal in
sheet, strip. foil or leaf form
Engineers' small tools and parts thereof
Machinery and other engineering products
Chemical manu factures
enamels
Paints, varnishes and enamels

|  | 1954 |  |
| :---: | :---: | :---: |
|  | Quantity | Value |
|  |  | £'000 |
| Other goods |  | 10.563 |
| Scrap metals sold | Th. tons |  |
| Aluminium and aluminium alloys | 18.0 | 1.667 |
| Copper | 13.3 | 3.121 |
| Brass and other copper alloys. including nickel silver and cupro-nickel but excluding all other nickel alloys | 13.7 | 2.227 |
| Lead | 1.4 | 125 37 |
| $z_{\text {inc }}$ | 1.1 | 75 |
| Iron and steel | 104.5 | 693 |
| Other metals | 3.7 | 1. 161 |
| Work done for the trade or on commission (a) |  | 170 |
| Total |  | 51.567 |

Total make of intermediate products
Larger establishments in the United Kingdom

| TABLE 8 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |


|  | Returned in this industry |  |  | Heturned in all in |  | dustries |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1951 | 1954 |  | $\frac{1951}{\text { Quantity }}$ | 1954 |  |
|  |  | Quantity | Entries |  | Quantity | Entri |
| Other non-ferrous metals and alloys <br> Brass and other copper alloys, including <br> nickel silver and cupro-nickel, but excluding nickel silver and cupro <br> Ingots, blocks. slabs, billets, bars (including wire bars) other refinery shapes and cast strip (b) |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Brass, includina manqanese bronze | 330.2 | $278.3$ |  | 343.5 | 284.7 71.8 | 63 |
| Direct castings not included above |  |  |  |  |  |  |
| Brass. including manganese bronze |  | 2.8 | 10 |  | 2.8 | 10 |
| Other | 1.8 | 0.5 | .. | 1.8 | 0.5 |  |
| Plates, sheets, foil, strip. discs and circles | 73.6 | 80.6 | .. | 75.3 | 81.1 | 47 |
| Round brass rods | (a) | (a) | .. | 60.9 | 93.8 | 20 |
| Shapes ana angles | (a) | 18.7 | .. | 13.6 | 18.7 | 15 |
| Other rods and sections and wire not in coils | 50.9 | 13.0 | .. | 52.1 | 13.0 | 17 |
| Unclassified rods, sections, shapes, angles, and wire not in coils | - | - | - | 3.3 | 3.8 | 6 |
| Copper |  |  |  |  |  |  |
| Unwrought: ingots, blocks, slabs, bars, <br> billets, cakes, cathodes and anodes. <br> including rough copper of 94 per cent. copper content or over (b) |  |  |  |  |  |  |
| Fire refined | 119.7 | 246.9 | .. | 135.2 | 247.5 | 25 |
| Other | (a) | (a) | . | 30.9 | 85.4 | 22 |
| High conductivity strip | (a) | (a) | .. | 12.6 | 16.5 | 11 |
| Plates, sheets or strip (other than of high conductivity) |  |  |  |  |  |  |
| $3 / 8$ inch thick and over | (a) | (a) | .. | 8.4 | 5.7 | 10 |
| Other sheets, strip foil, discs and circles | (a) | (a) | .. | 41.7 | 36.2 | 28 |
| Strip not exceeding 6 inch in width (high conductivity and other) unclassified |  | (a) | .. | 11.2 | 12.2 |  |
| Rods and sections, shapes and angles, and wire not in coils Wire rods |  |  |  |  |  |  |
| High conductivity | 59.8 | 93.2 | 6 | 59.8 | 93.2 | 6 |
| Other | (a) | (a) | .. | 1.0 | 0.3 |  |
| Shapes and angles | 1.9 | 3.2 | .. | 1.9 | 3.2 |  |
| Other rods and sections and wire not in coils |  |  |  |  |  |  |
| Rolled | 2.7 | (a) | .. | 2.7 | 1.7 |  |
| Extruded | (a) | 3.9 | 11 | 2.1 | 3.9 | 11 |
| Unclassified rods and sections, shapes and angles, wire not in coils and strip | - | 23.6 | .. | 90.1 | 95.0 | 9 |
| Tube shells | 53.4 | 60.1 | 11 | 53.4 | 60.1 | 11 |
| Lead unwrought in pigs, ingots, blocks, bars slabs and cakes | (a) | (a) |  | 115.8 | 129.2 | 51 |

3/6/14
NON-FERROUS METALS (SMELTING, ROLLING, ETC.)

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


Purchases of materials and fuel, 1954
Larger establishments in the United Kingdom
TABLE 9

|  | Quantity | Cost |
| :---: | :---: | :---: |
| Materials | Th.tons | $\varepsilon^{\prime} 000$ |
| Light metals and light metal alloys |  |  |
| Aluminium and aluminium alloys |  |  |
| Ingots and notch bars, virgin | 175.0 | 27.779 |
| Ingots, notch bars and sticks, secondary | 45.5 | 7.402 |
| Blocks, slabs, billets and wire bars | 65.7 | 10,893 |
| Sheets, plates, strip, discs, circles, slugs and foil | 24.7 | 5. 205 |
| fll other descriptions except finished parts and scrap | 2.5 | ${ }_{417}^{631}$ |
| Magnesium ore and magnesia |  |  |
| Magnesium and magnesium alloys | 12.0 | 2.781 |
| Other non-ferrous metals and alloys |  |  |
| Antimony ore and concentrates | 4.1 | 354 |
| Brass and other copper alloys including nickel silver and cupro-nickel, but excluding all other nickel alloys |  |  |
| Ingots, blocks, slabs, billets, bars (including wire bars) and cast-strip | 25.2 | 5.172 |
| Plates, sheets, strip (other than broken down strip). discs, circles and foil | 1.9 | 504 |
| Other descriptions including broken down strip and tube shells but excluding finished parts and scrap | 5.8 | 1.533 |
| Copper blister | 126.2 | 30.206 |
| Copper unwrought: ingots, blocks, slabs, bars, billets, cakes, cathodes and anodes including rough copper of $94 \%$ copper content or over |  |  |
| Fire refined | 95.7 |  |
| Other | 179.2 | 45,996 |
| High conductivity copper rods and strip | 4.9 | 1.266 |
| Copper plates, sheets, strip. discs and circles lother than of high conductivity) | 0.4 | 154 |
| Other descriptions of copper including broken down copper cake and tube shells but excluding finished parts and scrap | 6.2 | 1.776 |

TABIE 9 (contd.) NON-FERROUS METALS (SMELTING. ROLLING, ETC.

Materials (contd.)
Other non-ferrous metals and alloys (contd.)
Lead and lead alloys
Lead unwrought in pigs. ingots. blocks, bars, slabs
and cakes Imported virgin lead
Re-melted lead
English refined lead including lead refined from
imported base bullicion
Other descriptions except finished parts and scrap
Nickel and nickel alloys, other than nickel silver and
cupro-nickel. in all forms except finished parts and scrap
Tin ore and concentrates
Tin in all forms except finished parts and scrap
Zinc and zinc alloys
Zinc of not less than $99.99 \%$ purity
Other electrolytic and refined zinc, and low grade prime
westeni. debusei and G.O. B. zinc
Re-melted
Re-melted
Other descriptions except finished parts and scrap
Alloying materials not elsewhere specified, e.g. silicon.
titanium chrome
Srap (including all forms of scrap material and secondary
Aluminium and aluminium alloys (including secondary ingots
Auminium and aluminium alloys (ind bars)
and notch billing nickel silver and
Brass and other copper alloys, including nickel silve
cupro-nickel, but excluding all other nickel alloys
Copper
Lead
$\mathrm{T}_{\text {in }}$
Tin
$\mathrm{Zinc}_{\text {in }}$
$\mathrm{in}^{2}$
Zinc base alloys
Other
Iron and steel in all forms except finished parts and scrap
Packing materials
Paper including paper sacks
Packing cases (wood or mainly of wood)
Jute (including hessian) piece goods and jute sacks and bags
ng hessian) piece go
Other packing materials including iron and steel drums
and boxes
Replacement parts for firms' own machinery, plant and
vehicles
Consumable tools bought as replacement including engineers ${ }^{\circ}$
small tools, jigs. fixtures and measuring instruments
All other purchased materials
fuel and electricity
Coal
Coke
Liquid fuel (including creosote/pitch mixtures
For use in internal combustion
For use in internal combustion engines
Notor spirit (petrol) for use in road vehicles and
Motor spirit (petrol) for use in road vehicles
derv. fuel
For burning in furnaces, boilers, kilns, etc.
(88169)

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table 9 (contd.) NON-FERROUS METALS (SMELTING, ROLLING, ETC.)

(a) The total quantity of gas produced amounted to 45,920 th. therms
(b) The total quantity
290.006 Th.kWh.

TABLE 10
Average number of employees and wages, salaries and superannuation
Average number of employ
Operatives
Administrative, tech
Operatives
Administrative, technical and clerical employees Total
Wages and salaries paid to
Operatives
Adminis istrat
Total
Wages and salaries per head
Operatives
Operatives
Administrative, technical and clerical employees
Superannuation and other pension funds for employees and
dependents (b) Employers ${ }^{\text {. }}$ contributions
Employees covered
Pension, etc. payments to former employees and dependents (b) (a) The fonlowing persons, not included above, were also employed by larger establishments in this industry
('other workers
includes, for example, employees engaged in merchanting)

|  | 1951 | 1954 |
| :---: | :---: | :---: |
| Canteen workers | Number | Number |
| $\underset{\text { Males }}{\substack{\text { Mamales }}}$ | 101 1.192 |  |
| Total | 1.293 | 1.310 |
|  | 295 | 442 |
| Total | 520 | 604 |
| Total excluded employees | 1.813 | 1.914 |

 (b) The figures given relate to larger establishments in Great Britain only.

> Enployment in a specified week (a): Larger establishments in the United Kingdom

|  | 1951 |  |  | 1954 Number |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Males | Females | Total | Males | Females | Total |
| Working proprietors | 48 | 1 | 49 | 29 | 1 | 30 |
| Operatives | 73.558 | 13.570 | 87.128 | 75.712 | 13.653 | 89,365 |
| clerical employees | 13.665 | 7.187 | 20.852 | 15,336 | 7.882 | 23.218 |
| Total employees | 87.223 | 20.757 | 107.980 | 91.048 | 21,535 | 112.583 |

DS 88169/1/Wt. 3351 K. 5 2/58 CL

LIST OF INDUSTRY REPORTS
voluve 4 (contd.)

. Weaduction

$$
\begin{aligned}
& \text { Procossing } \\
& \text { and Soft Hemp }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Twine and Not } \\
& \text { ry and Other Knitted Goods }
\end{aligned}
$$

ts Fabric

Goods and Sacks
e Converting Textile
p Household Text
Madeup Houshotid
Toxtil Finishing
Textile Packing

## vowne 7

B. Flock and Rag
C. Hair. Fibre and Kindred
Indus tries

$$
\begin{aligned}
& \text { Industries } \\
& \text { D. Leather ©Tanninc } \\
& \text { E. Fellongery } \\
& \text { F. Leather Goods }
\end{aligned}
$$

E. Fellonger
F. Loant ther Go
G. Failoring.
H. Tailo

Taitoring, Dresmaking, ete
Hats. Caps and Millinery and Millinery
volume 8
A. Grain Milling
B. Bread and Flour Confectionery
A. Bacon Curing and Sausage
c. Brean
D.
vowne 8 (contd.)
Proserved Meat
Ice Cream tis
Sugar and Glucose
Con fectionery and Vugar
J. Preserved Fruit and Vegetables
volume 9
A. Nargarine

Cattleor Dog and Poultry Foods
Vinegar ond other Condiments
Starch Starar
S. 1 Mech
Miscella
Miscellaneous Preserved Foods
T. Mholessale Bottling
K. Spirit Distiliting
Sir
Comit hectitying and
L. Sompounding, Brinks. British Wines
M. Tobaccidor
volume 10
A. Timber
B. Furniture and ${ }^{\text {U }}$
C. Soft Furnimhing

Shop and Office Fitting
Wooden Contaniners and Baskets
Faper and Board
Paper and Board
Wallpaper $\begin{aligned} & \text { Cordord Box, Carton and } \\ & \text { Fibre-board Packing Case }\end{aligned}$

J. Ners paper and Periodical

Printing and Publishing
K. Printing and Publishng,
Bookbind ing, Engraving, otc
volume 11
A. Rubber
B. Linoleum, Leathercloth and
Lill

$\qquad$

vowne 12
A. Building and Contracting
B. Local Authorities (Building and
C. Civiil Enginering)
D. Tramay (Tivil Engineering)
D. Tramuy, Trolley Bus and
E. Canvil. Engineering)
Undertak and (arbour
Unge (Civil
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F. Gas Supply Industry
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[^0]:    (a) Excluding outworkers and including working proprietors.
    (b) Excluding expend ture for establi shments not yet in production.

