## The Report on the

## Census of Production

$$
\text { for } 1954
$$

Volume 3 : Industry F
WROUGHT IRON AND STEEL TUBES

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)

## LONDON: HER MAJESTY'S STATIONERY OFFICE

The Report on the Census of Production for 1954 VOLUME 3 INDUSTRY F

WROUGHT IRON AND STEEL TUBES

THIS REPORT on the Wrought Iron and Steel Tubes Industry relates to establishments engaged wholly or mainly in the manufacture of tubes (including fittings) for boilers, cycles, bedsteads, etc.; metal conduits; gas cylinders and pressure vessel.
integrated works and the manufacture of
This industry corresponds to minimum list heading 44 in the Standard Industrial
Classification.
There were no larger establishments in Northern Ireland in the register for this industry.

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|  | of the industry, including sales of these products by establishments classified to other industries |  | 11 | Employment in a specified week | 3/F/7 |

[^0]The following notes describe terns in geperal use In the tables of the report. More de tailed oxplana
tions of the torms used and adecription of the scop
and method of toking the census are given in the separ

Industrial Classification:
 put and, as far as possinhe. in conformity ith the
Standard Industrial Classification. Certain product are identified as the prininpip producter of indinidual
industries. the principal products for a given induatry

 Industry if it output of the principal product of of that
induatry accounted for a qractor proportion of the value
of its output than did its output of the principal proof its output than did its output of the principal pro-
ducts of any other industry
 value sa pecounted for by the characteristic products of
the specialist group. Intemediate products: Intermediate products: For some induatrios figures are
given shoming the total quantities mado during the yoar
of intermediate products. of Intermediate products. . .e. products which may be
further processed in the estabishmonts in which the
fure hroduced



 the producing works are not regarded as separate estab-
IIs mente and are included in the return for the works. Small firms are those employing on the average 10 or
ferer persons.

items shown in the same proportion as total employment. Gross output (production is the total value of goods od by adjusting the value of sales and work done during
the year for changes in the value of stocks of products
on hand for sale and work in progress.
Net output is the amount loft after deducting from the


 Sales moans salos during the yoar of goods made in the
otataliishment coverod by the yoturn or mado on conis.
lon for it. whether produced in the yoar or not. The ion for it. whet
valiue of sates
anount charge
doliverad basis.


Materials and fuel The total cost of matorials and
fuel purchased includes all purchases during the

ing oil, gas and olectricity) for all purposes: packing
matericis. including the full cost of returab
When fir When first purchased. workshop and ofifico materialas:
water charges materials for repairs to buildings
plant and vehicles


 obtained by adjusting purch
year in the value of a tocks.
Stods: Firms wore required to give stocks of mpterials
and fuel. products on hand for sale, and work in pro.
gress, at income tax values. lustoms

 riving at net outpu
Employment: Total omploymont includes working propriet.
ors. daministrative. technical and clerical employees.
and operatives. buy. and operativos, but exce ludes outworkers. canteon employ its and porsons ongaged in merchanting or any other ac-
it
sity not covered by firy soparately as excluded employees. Employees are per.
son on the pay-roll (i.o. persons whose National In

Working proprietors ar


 Irrland dirrectors of ininited conpanid.
paid by fee onlyy are also included.
Administrative, technical and clerical enployees include
dirrectoras othe than those paid by foe only (except



Operatives includd all. other classes
broadly speaking. all manual worke atericls supplied by the firm in the ir who hork on Wages and salaries include all overtime paymen ts, bonus-
os and connissions vithout any deductions for income to insurancess. contributory pans dions etc. They exclude
payments to vorking propriotors. Capital expenditure includes expenditure on now bullding
Fork. and on plant. machinery and vehiclos, charged to


 Symbols used:
for not avallable
or nill or negigible (less than half the final
digit shomi).
Where figuros are rounded, e.g. given to the sear.
 ale shown. In sone cases. figures have been conbine
-ith others of a sinilar nature where publication separate do tails ningt discloso information relationg to
an individual undertaking.

Estimates for the industry as a whole

|  | United Kingdom |  |  | $\begin{aligned} & \text { Scotland } \\ & 1954 \end{aligned}$ | $\begin{gathered} \text { Wales } \\ 1954 \text { a } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1948 | 1951 | 1954 |  |  |
|  | £ million | £ million | £ million | £ million | £ million |
| Gross output (production) | 58.6 | 98.2 | 114.6 | 17.39 | .. |
| Net output | 22.4 | 33.8 | 34.1 | 4.51 | .. |
| Total stocks and work in progress At beginning of year Change during year | $\begin{array}{r}9.8 \\ +\quad 1.7 \\ \hline\end{array}$ | 15.9 $+\quad 1.4$ | 22.3 $-\quad 1.0$ |  | . |
| Capital expenditure less disposals (b) | 2.7 | 1.9 | ${ }^{6.3}$ | (a) | $\cdots$ |
| wages and salaries | 12.9 | 17.5 | 20.0 | ${ }^{3.21}$ | Thousands |
|  | Thousands | Thousands | Thousands | Thousands | Thousands |
| -orking proprietors) | 38.0 | 42.6 | 40.8 | 6.56 |  |

(a) Owing to the risk of disclosure of information relating to (hiven. (b) Capital expenditure on new building work, plant, machinery and vehicles (including (except in 1948) that
incurred in Great Britain for establishments not yet in production). Hess amounts received for plant. incurred in Great Britain for estab
machinery and vehicles disposed of.

Summary of returns received

## TABLE 2

| TABLE 2 |
| :--- |

(d) Excluding outworkers and including working proprietors.
(e) Excluding expenditure for establishments not yet in pro
(58401)

| Average number employed (a) | $\begin{aligned} & \text { Estab- } \\ & \text { lish - } \\ & \text { ments } \end{aligned}$ | Gross out tuut <br> output | Netoutput | Employees |  | Wages and salaries |  | $\underset{\substack{\text { Capital } \\ \text { expenditure } \\ \text { (b) }}}{\substack{\text { en } \\ \text { en }}}$ | Net outputper persoonemployed(a) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Operatives | Others | Operatives | Others |  |  |
| $\begin{aligned} & 11: 24 \\ & { }_{25}^{25}-49 \\ & 50: 99 \end{aligned}$ | Number | \& 000 | $\varepsilon^{\prime} 000$ | Number | Number | \&. 000 | \&. 000 | £. 000 | $\varepsilon$ |
|  | 26263131 | $\begin{array}{r}\text { \% } \\ \begin{array}{r}\text { 902 } \\ 1.858 \\ 3.079\end{array} \\ \hline\end{array}$ | $\begin{array}{r} 343 \\ 678 \\ 1.373 \end{array}$ | $\begin{array}{r} 380 \\ 716 \\ 1.700 \end{array}$ | $\begin{aligned} & 103 \\ & 144 \\ & 361 \end{aligned}$ | $\begin{aligned} & 129 \\ & 663 \end{aligned}$ | $\begin{gathered} 60 \\ 90 \\ 202 \end{gathered}$ | 34626363 | $\begin{aligned} & 703 \\ & 789 \end{aligned}$ |
|  |  |  |  |  |  |  |  |  |  |
| 100-199 | 21 | ${ }_{6}^{6} 212$ | 2.377 | ${ }^{2} .420$ | 557 | 1.074 |  |  |  |
| ${ }_{300}^{200}-{ }_{399}$ | 8 | 5.864 4.163 | 2.500 1.780 | 1.569 1.777 | 440 438 | 765 815 | $\begin{aligned} & 257 \\ & 2295 \end{aligned}$ | 240 247 | 1.245 804 |
| $\begin{gathered} 400-749 \\ 750-999 \\ 1.000 \text { and over } \end{gathered}$ | 81313 | $\begin{aligned} & 14.177 \\ & 9.159 \\ & 68.233 \\ & \hline \end{aligned}$ | $\begin{array}{r} 3.637 \\ 2.940 \\ 18.248 \\ \hline \end{array}$ | $\begin{array}{r} 3.497 \\ 2.809 \\ 17.069 \\ \hline \end{array}$ | $\begin{aligned} & 1.113 \\ & 654 \\ & 4.676 \\ & \hline \end{aligned}$ | $\begin{aligned} & 1.658 \\ & 1 ., 363 \\ & 8.398 \end{aligned}$ | $\begin{array}{r} 667 \\ 364 \\ 2.571 \end{array}$ | $\begin{aligned} & 2.171 \\ & 466 \\ & 2.824 \end{aligned}$ | 789889889 |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Total | 143 | 113.646 | 33.877 | 31.937 | 8.486 | 15.134 | 4,745 | 6.205 | 838 |

TABLE 4 - Analysis according to specialisation within the industry, 1954
Larger establishments in the United Kingdom
No specialisation within this industry was distinguished.

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

| 1951 |  | 1954 |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Quantity | Value | Quantity | al | Entries |
| Th.tons | $\%^{\prime} 000$ | Th.tons | ¢. 000 | Numbar |
| 614.4 | 27.109 | 581.3 | 32.814 | 29 |
| 544.4 | $\begin{aligned} & 34.965 \\ & 5 \end{aligned}$ | 494.7 | 42.100 | 27 |
|  |  | 11.8 | $3.220(\alpha)$ | .. |
| 46.9 | 2.750 | 33.2 | 2.453 | 14 |
| 4.1 | 288 | 4.8 | 326 | 9 |
| \{ 1.209 .8 | 65.112 5.158 5.08 | 1.125 .8 | 80,914 | .. |
| 34.1 | 5.075 716 | 27.2 | 4.287 744 | 44 |
| \{ 159.3 | 11.851 2.397 | 197.7 | 16.877 3.804 | 82 |

Purchased tubes screved, bent or otherrise
fabticate. and gas containe rs (cylinders.
bottles, etc.)
(58401)

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 (contd.)

|  | 1951 |  | 1954 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Quantity | Value | Entries |
|  | Th.tons | \&. 000 | Th.tons | \&'000 | Number |
| Purchased tube fittings machined or otherwise fabricated | 2.7 | $\begin{aligned} & 494(\alpha) \\ & 428 \end{aligned}$ | $5.9$ | $\begin{gathered} 970 \\ 299 \end{gathered}$ | 42 |
| Flexible metallic tubing | 3.1 | 1.042 | $\stackrel{2 .}{ } \cdot$ | 797 290 | 12 |
| k done for the trade or on commission (b) |  | 663 |  | 619 | 29 |
| Total |  | 93.160 |  | 109,602 | .. |
| Sales in other industries (see Table 6) |  | 1.630 |  | 1.794 | . |
| Principal products of this industry sold by establishments in the industry |  | 91. 530 |  | 107.808 | 129 |

(a) So far as recorded separately.
(b) $A m o u n t$
cha

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

|  | 1954 |  |  | Principalindustries inwhich produced $(a)$ |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | value | Entries |  |
|  | Th.tons | \& 000 | Number |  |
| Wrought tubes, welded, electric conduit, and other close joint tubes | 7.2 | 457 | 7 | 3B, 3K. 5E |
| Wrought fittings for tubes. and purchased tube fittings machined or otherwise fabricated | 0.3 | ${ }_{40}^{101}$ | \% 6 | 3C. 4I, 4K. 5E |
| Purchased tubes screwed, bent or otherwise fabricated. and gas containers (cylinders. bottles. etc.) | $0.1$ | 25 409 | 8 | 3G, 3K. 4R, 4F |
| Flexible metallic tubing | 2.2 | 761 | 6 | 3G. SC, 5E, 11A |
|  |  | 1.794 | .. |  |

Total (a) The volume nu this report.

Sales in the industry of other than principal products
TABLE Larger establishments in the United Kingdom

|  | 1954 |  |
| :---: | :---: | :---: |
|  | Quantity | Value |
|  | Th.tons | ${ }^{\prime} 000$ |
| Iron and steel |  |  |
| Malleable cast fittings for tubes | 1.4 | 312 |
| Other castings | 3.2 | 324 |
| Iron or steel fabricated (e.g. mast and tover components, etc.) | 11.4 | 1.341 |
| Other goods | .. | 1.746 |
| Waste products sold |  |  |
| Scrap iron and steel | 231.8 | 1.469 |
| Other waste products | .. | 325 |
| Iron and steel structural work ( $\alpha$ ) |  | 900 |
| Total |  | 6.415 |

Total
(a) Amount charged, exclusive of the value of goods made at the establishments in this industry and included (58401)


Oring to the risk of disclosure of information relating to individual firms, the total quantity of
electricity generated in firms

|  | 1951 | 1954 |
| :---: | :---: | :---: |
|  | Number | Number |
| Average number of employees Operatives Administrative, technical and clerical employees | $\begin{array}{r} 34,073 \\ 8.331 \end{array}$ | $\begin{gathered} 31.937 \\ 8.486 \end{gathered}$ |
| Total | 42.404 | 40.423 |
| Wages and salaries paid to | ${ }^{\circ} \mathrm{F} 000$ | ع. 000 |
| Operativer Administrative, technical and clerical employees | 13.368 4.035 | 15.134 4.745 |
| Total | 17.403 | 19.879 |
| Wages and salaries per head | $\varepsilon$ | $\varepsilon$ |
| Operatives <br> Administrative, technical and clerical employees | 392 484 | $\begin{array}{r} 474 \\ \\ \times \cdot 000 \end{array}$ |
| Superannuation and other pension funds for employees and dependents |  |  |
| Employers' contributions | .. | 371 |
| Employees covered | .. | Number ${ }_{\varepsilon}^{15.313}$ |
| Pension, etc. payments to former employees and dependents |  | 180 |

(a) The following persons, not included above, wore also employod by larger establizhents in this indus try
('other workers inciudes. for exapte, enployees engaged in morchanting)

|  | United Kingdom |  |
| :---: | :---: | :---: |
|  | 1951 | 1954 |
|  | Number | Number |
| Males | ${ }_{363}^{11}$ | $\begin{array}{r} 18 \\ 341 \end{array}$ |
| Total | 374 | 359 |
|  | 287 | 715 |
| Females | 190 |  |
| Total | 477 | 1.000 |
| Total excluded enployees | 851 | 1.359 |

Outworkers. The firms in this industry employed tale and 23 fonale outworkers in 1951 and 2 ache and
12 femare outworkers in 1954, the amounts pard to

| Employment in a specified week (a) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1951 |  |  | 1954 |  | Number |
|  | Males | Females | Total | Males | Females | Total |
| Working proprietors | 10 | 2 | 12 | 6 | 1 | 7 |
| Operatives | 29.949 | 3.688 | ${ }^{33.637}$ | 29.090 | 3.146 | 32.236 |
| Administrative, technical and clerical employees | 5.834 | 2.698 | 8.532 | 5,908 | 2.676 | 8.584 |
| Total employees | 35,783 | 6.386 | 42.169 | 34,998 | 5.822 | 40,820 |

Total employees

$$
\text { (a) Weok onded September 22, 1951, or October 30, } 1954 .
$$

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Brick and Fireclay
F. Brick and Firecley
G. Chlna nad Earthyare
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| Vowume |  |
| A. Cotton Spinning and DoublingB. Cotton Weaving |  |
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| hayon, Nylon, et |  |
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| silk |  |
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| ${ }_{\text {R }}$. | Textile |
|  | Textile |
|  | volume 7 |
| As bestos |  |
| Flock and Rag Hair. Fibre |  |
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| $\begin{aligned} & \mathrm{D} . \\ & \mathrm{E} . \end{aligned}$ | Leather (Tanning and Dr |
|  | Follimongery |
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| Tailoring, DHats. Caps aGotore |  |
|  |  |
|  |  |
| K. Umbrella and Walking Stick <br> L. Boot and Shoe |  |
|  |  |
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|  | Grain Mil |
|  | ${ }_{\substack{\text { Bread } \\ \text { Biscui }}}$ |
|  | con C |

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ond Cide
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[^0]:    IMPORTANT NOTES and definitions arpear on the next page. In interpreting the data in the tables, it is essential to bear these in mind.

