# The Report on the Census of Production for 1954 

## Volume 3: Industry C



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)

The Report on the Census of Production for 1954

VOLUME 3 INDUSTRY C

IRON FOUNDRIES

THIS REPORT on the Iron Foundries Industry relates to establishments engaged wholly or mainly in the manufacture of cast iron goods of all descriptions.

Owing to the increasing proportion of gas appliances made from sheet steel instead of from cast iron, a number of establishments classified to this industry for 1948 and 1951 were re-classified for 1954 to the Hardware, Hollow-ware, Metal Furniture and Sheet Metal Industry (Volume 5, Industry E in 1954. In 1951 these establishments employed 9,024 persons and had a net output of $£ 6,291,000$.

This industry corresponds to minimum list heading 42 in the Standard Industrial Classification

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The following notes describe terms in general use
in the tables of the report. More detailed explanations of the terms used and a description of the scope
and method of taking the census are given in the separand method of taking the census are given in the separ-
ate bookleet entitled The Report on the Censur of Pro-
duction for i954- Introductory Notes' (price 18. 6d.

Industrial Classification: Establishments are classif ind to industries according to the nature of their out-
int and as far as possible. in conformity with the
 are identified as the principal products of individual
industries. the principal products for o qiven industry
being of $\alpha$ similar nature or comonaly associated in pro-
 followed is that an establishment is classified to an
industry if its output of the principal producte of that
industry accounted for ore

Specialist producers normally comprise those establish-
ments so per cent. or more of whose total output by
value is accounted for by the characteristic products of value is acocunted. for by the characteristic products of
the specialist group. Intemediate products: For some industries figures are
given shoning the total quan tities made during the year of intermediate products, i.e. i. products which may be
further processed in the estabishments in which they are produced.
Larger establishments: The information given in the re-
port relates mainly to 'larger establishments. port relates mainly to larger establishments. i.e.
establishment of firms employ ing on the average more
than 10 pernons. In most cases an establishment com-
 or factory). Offices. Warehouses. Laboratories and
other anclilary places of business situated apart from
the producing orks are not regarded as separate estabthe producing works are not regarded as separate estab-
lishments and are included in the return for the works. Small
ferer persons.
 itens shovn in the same proportion as total employment.
Gross output (production is the total value of goods
made and other work done during the year: it is obtaind by adjusting the value of sales and work done during
the year for changes in the value of s tocks of products the year for changes in the value of
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 mat-
 and. for 1951 and 1954, any transport payments made.
This represents the value anded to material by the pro-
cess of production, and constitutes the fund from which ages. salaries, rents. rates and taxes, advertising and
other selling expenses and all other similar charges
have to be met. as uell as depreciation and profits. Sales means sales during the year of goods made in the
establishment covered by the return or made on conmis.
ion for it, whether produced in the year or not. The
 andived basis. and net of any trade discounts, agents.
deliter
comisisions. allowances for returnable cases, purchase For oond charged on a delivered parchase to
tox. ett.
customers overseas. firms were required to give the customers overseas. firms were required to give the
f.o.b. value.
Materials and fuel. The total cost of materials and 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-
 when first purchased; workshos and office materials:
water chargesi materials for repairs to buildings: plant and venicles when carried out by firms. own vork.
people included in their returns: consumable tools: people included in their returns; consumable tools:
and parts for machinery purchased as replacenens.
purchases of goods for merchanting are excluded.
The Purchases of goods for merchanting are excluded. The
costof aterials and fuel used, given in Table 2. is
obtained by adjusting purchases for changes during the cost of materials and fuel used, given in tabien is
obtained by adjusting purchases for changes during the
year in the value of stocks.
Stocks: Firms were required to give stocks of materials
and fuel. products on hand for sale, and work in pros.
tooks: Firms were required to give stocks of materials
and fuel. products on hand for sale, and work in pro.
gress, at income tax values. Customs and Excise Duty paid on materials purchased is
normally included in the cost of materials. Finished goods are similarly valued as they were sold, duty-paid or duty-free. The net amount
ducted in arriving at net output.
Employment: Total employment includes working propriet-
ors. adminis ors. administrative. technical and clerical employes,
and operatives, but excludes outworkers. canteen employ-
 separately as excluded employees. Employees are per.
sons on the pay-roll (i.... persons whese National In-
surance cards arre held by employers). whe ther employed sons on the pay-roll (i) e... persons whose National In-
surance cards were held by employers). Whether employed
full-time or part-time. surance cards were held.
fullt-time or part-time.
Morking proprietors are proprietors of businesses other
than limited companies, together with meembers of the ir
 Ineland directors of limited companies (other than those Administrative, technical and cleric
deministrative, thecmical and clerical enployees include
directors other than those paid by fee only (except in
orthern ireland): managers. Northern Ireland): manase pras supy intendents and works
foremen: research, experimental. development. technical foremen: research. experimental. development. technical
and design employees Pother than operatives): draqhes
men and tracers: travellers: and office (including men and tracers: trave
works office) employees.
Operatives include all other classes of employees, i.e..
broadly speaking, all manual workers. Outworkers are persons employed by the firm who work on
materials supplied by the firm in their own homes. Wages and salaries include all overtime payments, bonuses and commissions without any deductions for income tax
insurances. Contrinutory pensions etc. They exclude
neyments to working proprietors.
 Capital expenditure includes expenditure on new building
mork, and on plant, machinery and vehicles. charged to capital account during the year. including any transport
 had not be gun production before the end of the year
(Whish has not previously been included in the Census of
Production reports for individual Symbols used:
for not available
for nil or negligible (less than half the final
digit shown).
Where figures are rounded, e.g.. given to the near-
$\varepsilon$ thousand, there may be apparent slight discrepanest
cies between the sums of constituent it items and the tot the
 separate detais might disclose information relating to
an individual undertaking.

|  | United Kingdom |  |  | $\begin{aligned} & \text { Scotland } \\ & 1954 \end{aligned}$ | $\begin{aligned} & \text { Wales } \\ & 1954 \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1948 | 1951 | 1954 |  |  |
|  | \&million | $\varepsilon$ million | £ million | £ million | £ million |
| Gross output (production) | 115.2 | 151.7 | 153.8 | 19.43 | 6.00 |
| Net output | 67.9 | 80.7 | 79.7 | 10.48 | 2.52 |
| Total stocks and work in progress At beginning of year Change during year | $\begin{array}{r} 13.0 \\ +\quad 3.0 \end{array}$ | 16.1 $+\quad 2.7$ | 18.9 $+\quad 0.7$ | 2.47 $+\quad 0.04$ | ${ }^{0.71}$ |
| Capital expenditure less disposals (a) | 3.9 | 5.4 | 4.3 | 0.46 | 0.43 |
| Wages and salaries | 42.0 | 50.5 | 52.8 | 7.45 | 1.72 |
|  | Thousands | Thousands | Thousands | Thousands | Thousands |
| working proprietors) | 120.9 | $120.7$ | $105.4$ | $16.29$ | $3.53$ |

(a) Capital expenditure on new building work, plant, machinery and vehicles (including (except in 1948 ) that
incurred in treat Brit tain for es tablishments not yet in production). less amounts received for plant.
machinery and vehicles disposed of.

Summary of returns received

## TABLE 2

| TABLE 2 |
| :--- |

(a) For the year 1948 gross output excludes payments for transport servicess outwards on finished goods sold
For subsequent years gross output includes payments to other firms and undertakings and to firms
own


(c) Number in week ended Septenber 25. 1948
(d) Excluding outworke and including working proprietors.
(e) Excluding expenditure for es tablishments
(d) Excluding outworkers and including working proprietors.
(e) Excluding expenditure for estabishments not yet in production.
(f) Excluding Northern Ireland. No in formation about small firms was collected in Northern Ireland for 1951 .

| $\underset{\substack{\text { Ave rage number } \\ \text { employed (a) }}}{\text { a }}$ | Establish.ments | Grossoutput | ( $\begin{gathered}\text { Net } \\ \text { output }\end{gathered}$ | Employees |  | Wages and salaries |  | Capital <br> expendit ture <br> (b) | $\begin{array}{\|c} \begin{array}{c} \text { Net output } \\ \text { per person } \\ \text { employed } \\ \text { (a) } \end{array} \\ \hline \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | tives | Others | Operatives | Othe |  |  |
|  | Number | \&'000 | £ 000 | Number | Number | $£ \cdot 000$ | ¢ 0000 | £ 000 | $\varepsilon$ |
|  | ${ }_{236}^{173}$ | 3.107 9.203 | ${ }_{5.674}^{1.992}$ | 2,641 7.447 | ${ }_{994}^{404}$ | ${ }_{3}^{1,230}$ | 644 | - $\begin{array}{r}63 \\ 244\end{array}$ | ${ }_{668}^{641}$ |
| ${ }_{50}^{25}-99$ | 2368 | - $\begin{array}{r}\text { 9.203 } \\ 14.571\end{array}$ | 5.674 8.665 | 1.447 10.995 | 1,418 | 5,129 | ${ }_{974}^{644}$ | ${ }_{362}^{244}$ | ${ }_{697} 6$ |
| 100-199 | ${ }^{133}$ | ${ }^{25.048}$ | 14.154 | ${ }^{16.698}$ | 2.157 | ¢8.142 <br> 3.679 | 1.418 | 1.098 | 750 709 |
| ${ }_{300}^{200}-{ }^{2999}$ | ${ }_{25}^{37}$ | 12.668 | ¢,6.568 <br> 6.451 | 7,873 7.261 | 1.328 | 3,443 | 888 745 | ${ }_{292}^{316}$ | 751 |
| $400-499$ | 13 | 10.978 | 4.805 | 4.918 | 819 | ${ }_{7}^{2,366}$ | ${ }^{473}$ | ${ }_{828}^{291}$ | -838 |
| 7500-749 | ${ }_{8}^{26}$ | 29.724 8.750 | $\begin{array}{r}13.342 \\ 4.443 \\ \hline\end{array}$ | $\underset{\substack{13,560 \\ 5,905}}{\text { c, }}$ | ${ }_{\substack{2.079 \\ 1.026}}^{\text {2, }}$ | ${ }_{2}^{7,867}$ | ${ }_{\text {, }}^{1212}$ | 828 <br> 174 | 883 641 |
| 499 | 6 | 12.626 11.558 | 5.962 | 5.755 6.210 | 1.185 |  | 657 653 | 369 369 | 859 821 |
| Total | 838 | 150,718 | 78,086 | 89, 263 | 13.943 | 43,350 | 8, 381 | 4,346 | 756 |
|  |  |  |  |  |  |  |  |  |  |

Analysis according to specialisation within the industry, 1954
table 4

|  |  | Specialist producers of |  |  |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Unit |  | Cast iton itoves. grates. etc. | $\begin{aligned} & \text { Cisterns. } \\ & \text { bathe ard } \\ & \text { banther } \\ & \text { santary } \\ & \text { goors } \end{aligned}$ | Ingot moulis ond bottoms for stoel and non- ferrous metals | $\begin{gathered} \text { Marine } \\ \text { cast } \\ \text { ings } \end{gathered}$ | $\begin{aligned} & \text { Motor } \\ & \text { and } \\ & \text { cycle } \\ & \text { indus- } \\ & \text { try } \\ & \text { cast- } \\ & \text { ings } \end{aligned}$ | $\begin{gathered} \text { Raill- } \\ \text { nay } \\ \text { capst } \\ \text { ings } \end{gathered}$ |  |  |  |
| Number of establishments | No. | 66 | 46 | 15 | 17 | 25 | 40 | 8 | 464 | 57 | ${ }^{838}$ |
| Total value of sales and work done | $£^{\prime} 000$ | 33,871 | 13,454 | 5.749 | 10,962 | 2.146 | 21.026 | 1.251 | 37.112 | 24,656 | 150,226 |
| Sales of characteristic |  | 29.778 | 10,954 | 4.937 | 7.904 | 1.765 | 17,176 | 998 | 31,247 |  |  |
|  | " | 2,781 | 900 | 153 | 1,070 | 85 | 666 | 59 | 1.454 | 1.467 | 8,634 |
| and work in progress |  |  | + 138 |  |  |  |  |  |  | + 156 | 493 |
| Gross output (production) | .. | 33,968 | 13.591 | 5.792 | 10.985 | 2.143 | 21.076 | 1.274 | 37.075 | 24,813 | 150.718 |
| Purchases of materials and fuel |  | 17.657 | 5.352 | 2.431 | 6.774 | 864 | 8.786 | 684 | 13.703 | 9.837 | 66.089 |
| Stocks of materials and fuel $\quad\left\{\begin{array}{l}\text { at beginning } \\ \text { of year } \\ \text { change dur- }\end{array}\right.$ |  | 2.528 | 892 | 318 | 1.410 | 171 | 1.274 | 149 | $\begin{array}{r}1.661 \\ +\quad 88 \\ \hline\end{array}$ | 1.443 $+\quad 93$ | 9.846 $+\quad 153$ |
| Cost of materials and tuel used |  | 17.512 | 5.340 | 2.40 | -191 | 56 | ,790 | 707 | 13,6 | 9,744 | 65,936 |
| Payment for work done on materials given out Payment for transport |  | 2.072 | - 479 | ${ }_{95}^{24}$ | 50 290 | ${ }_{35}^{10}$ | 140 390 | $2{ }^{2}$ | ${ }_{679}^{487}$ | ${ }_{768}^{466}$ | 4,849 |
| Net out put $\begin{aligned} & \text { Averate } \\ & \text { dumber }\end{aligned}$ |  | ${ }_{15}^{14.291}$ | ${ }_{7}^{7.185}$ |  | ¢3.680 <br> 3.737 | 1.833 | ${ }^{11.755}$ | 536 800 | 22.294 | 13.834 | 78.086 <br> 89 <br> 8.263 |
| Average number $\begin{aligned} & \text { dif employees }\end{aligned}\left(\begin{array}{l}\text { Operatives } \\ \text { others }\end{array}\right.$ | No. | (15.388 | 7.891 | ${ }_{\substack{2.763 \\ 368}}$ | - ${ }^{3.783}$ | ${ }_{216}^{1.830}$ | 13,046 | 102 | ${ }^{28.0151} 3$ | 12,845 | 89, 13.943 |
| To tal mployment (a) | .. | 17.919 | 9.712 | 3.131 | 4.521 | 2.048 | 14.535 | 907 | 31,872 | 18,695 | 103,340 |
| Net output per p | $\varepsilon$ | 798 | 740 | 1.043 | 814 | 607 | 09 | 591 | 699 | 740 | 756 |
| $\underset{\substack{\text { Wages and } \\ \text { salaries }}}{ }\left\{\begin{array}{l}\text { of of opra- } \\ \text { tit ves } \\ \text { of others }\end{array}\right.$ | ${ }^{\text {¢ }}$. 000 | $\begin{aligned} & 7,376 \\ & 1,508 \end{aligned}$ | ${ }^{3.532}$ | $\begin{array}{r} 1.427 \\ 242 \end{array}$ | 1.888 417 | 863 133 | $\begin{aligned} & 6,945 \\ & 1,055 \end{aligned}$ | 364 61 |  | 7.168 | 43.350 ${ }^{481}$ |
| Capital expendi ture <br> New building work (b) |  | 114 | ${ }^{8}$ | 51 | 105 | 9 | 113 | 72 | 275 | 149 | 971 |
| Plant and machinery $\left\{\begin{array}{c}\text { acquisitions } \\ \text { (b) })\end{array}\right.$ |  | ${ }^{351}$ | 175 | 178 | 338 | 17 | 511 | 82 | 812 | 392 | 2,857 |
|  | " |  |  |  |  |  |  |  |  |  | 102 |
| Vehicles $\left\{\begin{array}{l}\text { (b) } \\ \text { disposals }\end{array}\right.$ | ". | ${ }_{12}^{41}$ | 86 <br> 15 | 29 | 12 | 5 1 | 59 18 | 1 | 165 50 | 119 35 | 518 135 |

[^0]TABLE 5

|  | 1951 |  | 1954 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Quantity | Value | Entries |
| Iron (including malleable iron) <br> Pressure pipes and fittings and malleable cast iron fittings <br> Other pipes and fittings including rainwater. hot water and soil pipes and gutters | Th.tons | ${ }^{\prime} 000$ | Th. tons | $\varepsilon^{\prime} 000$ | Number |
|  | 706.6 |  | 735.0 | 28.098 | 138 |
|  | 70.6 | 25, 745 | 133.3 | 6,699 | 103 |
| Cast iron hot water boilers, (including washing boilers) radiators and radiator fittings using solid fuel | 70.2 | 5.020 (a) | 66.2 | 5.618 | 49 |
| Stoves, fires, ranges and cooking apparatus other than hollow-ware |  |  |  |  |  |
| Using gas (including gas radiators)(b) \{ | 69.6 | 13.168 267 | 8.7 | 1.144 | 51 |
| Using electricity (including electric radiators) | 11.4 | 1.940 | 5.5 | 495 | ${ }^{31}$ |
| Using oil (including oil radiators) | 1.9 | ${ }_{31}^{231}$ | 0.3 | 68 27 | 7 |
| Using solid fuel (other than cast iron hot water boilers (including washing boilers) radiators and radiator fittings) | 116.4(c) | 13.407 | 105.3 | 13,529 | 150 |
| Hollow-ware of cast iron | 4.1 | 355 | 4.2 | 400 | 22 |
| Sanitary cisterns, baths and other sanitary cast iron goods, enamelled or not, such as sinks, basins, lavatories, etc. | 79.0 | 6.225 ${ }_{63}$ | 88.1 | 7.728 | 64 |
| Cast iron bedsteads and fumiture trades castings, including piano frames | 4.5 | 282 | 4.4 | 318 | 30 |
| Iron castings for other domestic appliances. i.e., refrigerators, irons, etc. | 10.6 | 708 74 | 17.3 | 1.390 430 | 82 |
| Builders ${ }^{\circ}$ ir ronmongery of cast iron, not elsewhere specified | 13.4 | 1.199 | 12.0 | 1.293 | 129 |
| Manhole covers, ventilation and coal covers. drain gratings and frames therefor. service roads and drainage, excluding cast iron pipes | 68.8 | 2.448 | 69.5 | 2,836 | 262 |
| Marine castings (such as castings for turbines and parts. other marine engines and parts. deck and hull auxiliary machinery. propelders. but excluding dockyard plant and harbour machinery) | 59.4 | 3.994 | 46.1 | 3,623 | 222 |
| Castings for prime movers for land, such as turbines, gas, oil and steam engines | 32.7 | 2.210 | 30.9 | 2.257 | 127 |
| Castings for pumps and compressors | 18.1 | ${ }_{1}^{1.179(\mathrm{~d})}$ | 14.3 | 1.196 220 | 195 |
| Castings for boilers and boiler house plant | 28.5 | 1.467 | 20.6 | 1.227 201 | 226 |
| Colliery castings excluding colliery tubs and parts | 16.9 | 1.089 | 16.9 | 1,182 | 188 |
| Electrical engineering castings | 48.7 | 3,615 | 47.0 | 3,928 | 263 |
| Cases for small switch and fuse boxes, meter cases and similar castings | 10.3 | 777 | 7.7 | 727 | 89 |
| Castings for chemical and gas plant | 28.3 | 1.779 | 21.2 | 1.919 | 219 |
| Castings for textile machinery | 33.6 | 2,268 | 20.3 | 1,564 | 248 |
| Agricultural implements and machinery castings excluding castings for tractors | 62.2 | 4.061(e) | 23.6 | 1.923 | 205 |
| Castings for food preparation, processing and sterilising machinery | 15.0 | 1.060 | 10.1 | 842 | 173 |
| Castings for machine tools, including $j i g s$, tools and dies | 126.6 | 8,129 | 110.8 | 8.197 | 467 |


|  | 1951 |  | 1954 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Quantity | Value | Entries |
|  |  |  |  |  |  |
| Castings for printing, book binding, paper working, etc. machinery | 12.3 | 820 | 13.9 | 1,000 | 153 |
|  |  |  |  |  |  |
| For tractors (engine, transmission, power take-off and chassis castings) |  |  | 58.8 | 4.233 | 81 |
| For cars, commercial vehicles, buses, trolley buses, works trucks, etc. (including castings for engines) | 256.7 | 17.878 | $\left\{\begin{array}{c}216.5 \\ . .\end{array}\right.$ | 15,546 2,310 | 156 |
| For cycles and motor cycles | 7.5 | 926 | 7.7 | 991 | 50 |
| Railway castings |  |  |  |  |  |
| Castings for locomotives, not elsewhere speci fied | 11.3 | 476 | 20.1 | 634 | 59 |
| Tunnel segments | .. | (f) | 8.5 | 339 | .. |
| Chairs and other castings for the permanent way | 157.1 | 2.530 | 152.0 | 2.783 | 48 |
| Castings for carriages and wagons (including colliery tubs) not elsewhere specified | 33.4 | 997 | 34.1 | 1.070 | 64 |
| Railway material, not elsewhere specified | 9.4 | 310 | 2.7 | 174 | 51 |
| Castings for cranes and lifting and conveying appliances | 16.4 | 943 | 18.3 | 1,335 | 212 |
| Ingot moulds and bottoms for steel and non-ferrous metals | 307.9 | 6,816 | 326.7 | 9.816 | 88 |
| Castings for iron and steel works plant (other than rolls) | 56.0 | 2.437 | 65.9 | 3,110 | 184 |
| Iron castings in the rough or machined, not elsewhere specified |  |  | 126.0 | 8,839 | 446 |
| Unclassified i ron castings |  | 4.182 | $\{17.9$ | ${ }_{5}^{1,828}$ | 318 |
| Work done for the trade or on commission (g)Total |  | 182 |  | 262 | 35 |
|  |  | 154.404(c) |  | 158.563 | .. |
| Sales in other industries (see Table 6) <br> Principal products of this industry sold <br> by establishments in the industry |  | 17.250 |  | 18,929 | . |
|  |  | 137,154(c) |  | 139.633 | 808 |
| (a) Recorded as: |  | Th.tons | $8^{\prime} 000$ |  |  |
| Cast iron hot water boilers for coal and other solid fuel |  | 43.9 | 3.458 |  |  |
| Cooking and washing boilers of cast iron (including portable boilers and furnace pans) |  | 3.0 | 359 |  |  |
| Radiators, including parts and fittings (other than gas radiators) |  | 23.3 | 1.203 |  |  |

(b) See preamble. In 1951 the value includes $£ 10,776,000$ recorded by establishments reclassified in 1954
to the Hardware, Hollow-ware. Metal Furniture and Sheet Metal Industry (Volume 5, Industry E).
c) Ame the Hardware
(e) May include some castings for tractors
(e) Mor
(f) Not recorded separately.
(f) Not recorded se
(g) Amount charged.

Larger establishments in the United Kingdom
TABLE 6

(a) The volume and industry references given are to the industries shown in the list at the back of this

| Larger establishments in the United Kingdom |
| :--- |
| TABLE 7 ( |

(a) Amount charged.
(b) Value of work done during the yoar, exclusive of the value of goods used by firms and recorded as their
output. The value of these goods nas $£ 29.000$.

|  | Returned in this industry. 1954 |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Grey and high duty iron castings |  | Malleable iron castings (white or black hoart) |  |
|  | Quantity | Entrios | Quantity | Entries |
|  | Th. tons | Number | Th.tons | Number |
| Pressure pipes and fittings and malleable cast iron fittings | 689.9 | 98 | 8.6 | 31 |
| Other pipes and fittings including rainmater, hot water and soil pipes and gutters | 129.0 | 87 | 5.5 | 7 |
| Cast iron hot water boilers. (including washing boilers) radiators and radiator fittings using solid fuel | 66.9 | 44 | 0.2 | .. |

TABLE 8 (contd.)
TABLE 8 (contd.)

|  | Returned in this industry, 1954 |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Grey and high duty iron castings |  | Malleable iron castings (white or black heart) |  |
|  | Quantity | Entries | Quantity | Entries |
| Stoves, fires, ranges and cooking apparatus other than hollow-ware | Th. tons | Number | Th.tons | Number |
| Using gas (including gas radiators) | 8.4 | 46 | - | 5 |
| Using electricity (including electric radiators) | 5.5 | 31 | . |  |
| Using oil (including oil radiators) | 0.3 | 6 | - | - |
| Using solid fuel (other than cast iron hot water boilers (including washing boilers) radiators and radiator fittings) | 95.0 | 141 | 0.8 | .. |
| Hollow-ware of cast iron | 3.3 | 18 | , |  |
| Sanitary cisterns, baths and other sanitary cast iron goods, enamelled or not, such as sinks, basins, lavatories, etc. | 80.8 | 61 | . | . |
| Cast iron bedsteads and furniture trades castings, including piano frames | 4.2 | 27 | 0.1 | 8 |
| Iron castings for other domestic appliances i.e. refrigerators, irons, etc. | 17.2 | 72 | 0.1 | 7 |
| Builders' i ronmongery of cast iron, not elsewhere specified | 9.4 | 109 | 2.2 | 21 |
| Manhole covers, ventilation and coal covers, drain gratings and frames therefor, service boxes and the like and other castings for roads and drainage, excluding cast iron pipes | 66.0 | 244 | 0.5 | 9 |
| Marine castings (such as castings for turbines and parts. Other marine engines and parts. deck and hull auxiliary machinery, propellers. but excluding dockyard plant and harbour machinery) | 43.3 | 203 | 0.6 | 18 |
| Castings for prime movers for land, such as turbines, gas, oil and steam engines | 28.1 | 112 | 0.4 | 14 |
| Castings for pumps and compressors | 16.5 | 178 | 0.3 | 17 |
| Castings for boilers and boiler house plant | 20.1 | 216 | 0.1 | , |
| Colliery castings excluding colliery tubs and parts | 14.2 | 165 | 0.4 | 19 |
| Electrical engineering castings | 41.4 | 222 | 4.1 | 39 |
| Cases for small switch and fuse boxes, meter cases and similar castings | 6.0 | 79 | 1.7 | 13 |
| Castings for chemical and gas plant | 19.1 | 202 | 0.2 | 12 |
| Castings for textile machinery | 19.6 | 224 | 0.8 | 30 |
| Agricultural implements and machinery castings excluding castings for tractors | 17.9 | 164 | 4.8 | 45 |
| Castings for food preparation, processing and sterilising machinery | 10.4 | 160 | 0.2 | 17 |
| Castings for machine tools, including jigs. tools and dies | 102.8 | 422 | 3.3 | 41 |
| Castings for printing, bookbinding, paper working, etc. machinery | 13.4 | 140 | 0.1 | 16 |
| Motor and cycle industry castings |  |  |  |  |
| For tractors (engine, transmission, power take-off and chassis castings) | 39.0 | 62 | 9.4 | 21 |
| For cars, commercial vehicles, buses, <br> trolley buses, works trucks, etc. (including castings for engines) | 165.4 | 102 | 44.9 | 41 |
| For cycles and motor cycles | 4.5 | ${ }^{23}$ | 3.0 | 24 |


|  | Returned in this industry, 1954 |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Grey and high duty iron castings |  | Malleable iron castings (white or black heart) |  |
|  | Quantity | Entries | Quantity | Entries |
|  | Th.tons | Number | Th.tons | Number |
| Rolls for metal folling mills | 2.1 | 12 | - | .. |
| Rolls for machinery other than metal working (sugar, flour, rubber, etc. mills) | 2.4 | 15 | - | . |
| Railway castings |  |  |  |  |
| Castings for locomotives, not elsewhere specified | 2.8 | 47 | 0.1 | 7 |
| Chairs and other castings for the permanent way | 63.2 | 34 | . | .. |
| Castings for carriages and wagons (including colliery tubs) not elsewhere specified | 16.6 | 50 | 0.6 | 11 |
| Railway material, not elserhere specified | 9.0 | 44 | 0.4 | 9 |
| Castings for cranes and lifting and conveying appliances | 13.7 | 180 | 2.4 | 30 |
| Ingot moulds and bottoms for steel and non-ferrous metals | 307.3 | 76 | . | . |
| Castings for iron and steel works plant (other than rolls) | 62.2 | 170 | 0.5 | 9 |
| Iron castings in the rough or machined, not elsewhere specified | 108.4 | 389 | 11.1 | 62 |
| Total | 2,325.1 | . | 107.6 | . |

(a) 678,000 tons of i ron castings were recorded as having been made in other industries in 1954. The quantity

3.1 million tons recorded in the Cen.
iron costings in the United Kingdom.

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

|  | Quantity | Cost |
| :---: | :---: | :---: |
|  | Th.tons | ${ }^{\prime} 000$ |
| Materials |  |  |
| I ron |  |  |
| Pig iron | 1.652 .3 | 26.397 |
| Iron castings in the rough | 8.9 | 427 |
| Steel |  |  |
| Angles, shapes, sections, bars, rods, girders, beams, joists and pillars (not fabricated) | 9.8 | 384 |
| Plates and sheets (excluding tin-. terne-, and blackplates and sheets) |  |  |
| $1 / 8 \mathrm{in}$. thick and over, and hoop and strip (including tape) of all thicknesses | ${ }^{6.8}$ | 260 36 |
| Other steel sheets and plates under $1 / 8 \mathrm{in}$. thick | 5.2 | 247 |
| Iron andsteel in all forms except finished parts and scrap \{ | 5.6 | 290 148 |
| Iron and steel scrap | 923.6 |  |
| Ferro-alloys |  |  |
| Spiegeleisen and ferro-manganese (other than refined) \{ | 2.1 | 108 27 |
| Other ferro-alloys | 9.5 | 669 |
| Other alloying materials | 0.4 | 68 |
| (86192) |  | 53 |


|  | Quantity | Cost |
| :---: | :---: | :---: |
|  | Th.tons | $\mathrm{E}^{\prime} 000$ |
| Materials (contd.) |  |  |
| Other non-ferrous metals in all forms except finished parts and scrap |  |  |
| Aluminium | 3.5 | 562 |
| Brass and other copper alloys (including nickel silver and cupro-nickel, but excluding all other nickel alloys) | 5.5 | 1,351 |
| Moulding sand | 768.5 | 936 |
| Orgmic and inorganic bonds | 33.0 | 946 143 |
| Moulding boxes | 1.9 | ${ }_{232}^{121}$ |
| Refractories | 79.4 | 355 241 |
| Grinding wheels | $\stackrel{0}{ }{ }^{-}$ | 41 290 |
| Packing materials for transport | Th.cu.ft. |  |
| Packing cases (wood or mainly of mood) | 246.9 | 147 101 |
| Other packing materials | . | 407 |
| Replacement parts for firms' own machinery, plant and vehicles | .. | 2,342 |
| Consumable tools bought as replacement, including engineers ${ }^{\circ}$ small tools, iigs, fixtures and measuring instruments | . | 656 |
| All other purchased materials | .. | 11.576 |
| Fuel and electricity |  |  |
| Coal | 316.4 | 1.135 |
| Coke | 662.6 | 4.896 |
| Liquid fuel (including creosote/pitch mixtures) |  |  |
| Notor spirit (petrol) for use in road vehicles and derv. fuel | 1,844 | 371 |
| Other | 229 | 22 |
| For burning in furnaces, boilers, kilns. etc. | 10.456 | 430 |
|  | Th. therms |  |
| Gas purchased (a) |  |  |
| From Gas Boards | 12,366 | 582 |
| From other sources, including other departments of the same firms | $\begin{gathered} 16,950 \\ \mathrm{Th} \cdot \mathrm{cu} \cdot \mathrm{ft} . \\ 3,530,191 \end{gathered}$ | 114 81 |
|  | Th. kWh . |  |
| Electricity purchased (b) From Electricity Boards | 276.204 | 1,432 |
| From other sources, including other departments of the same firms | 40.642 | 188 |
| All other purchased fuel |  | 101 |
| Total cost |  | 66.089 |

(a) Owing to the risk of disclosure of information relating to individual firms, the total quantity of gas
produced in firms' own establishments cannot be given.
(b) The total quatity of electricity generated in fi mas.
23.488 Th. ${ }^{\text {akh }}$.

|  | 1951 | 1954 |
| :---: | :---: | :---: |
|  | Number | Number |
| Average number of employees |  |  |
| Operatives <br> Administrative, technical and clerical employees | 103,870 15,155 | 89.263 13.943 |
| Total | 119.025 | 103.206 |
| Wages and salaries paid to | $\varepsilon^{\prime} 000$ | £. 000 |
| Operativet Administrative, technical and clerical employees | $\begin{gathered} 41,994 \\ 7.868 \\ 7 \end{gathered}$ | $\begin{array}{r} 43350 \\ 8.381 \\ \hline \end{array}$ |
| Total | 49,862 | 51.731 |
| Wages and salaries per head | $\varepsilon$ | ¢ |
| Operatives <br> Administrative, technical and clerical employees | 404 519 | $\begin{array}{r} 486 \\ \varepsilon^{4} 0001 \end{array}$ |
| Superannuation and other pension funds for employees and dependents (b) |  |  |
| Employers' contributions | .. | 482 |
| Employees covered | . | Number <br> ${ }^{22,801}$ |
| Pension, etc. payments to former employees and dependents (b) |  | 75 |



|  | 1951 | 1954 |
| :---: | :---: | :---: |
|  | Number | Number |
| Canten morkers Males | 50 | 32 |
| Females | 758 | 523 |
| Total | 808 | 555 |
| 0 Other workers |  |  |
| ${ }_{\text {Mamales }}$ | 115 | 122 |
| Total | 487 | 379 |
| Total excluded employees | 1.295 | 934 |

Outworkers. The firms in this industry employed 29 outworkers in 1951 and 10 outworkers in 1954, the amounts
and (b) The figures given relate to larger establishments in Great Britain only.

Employment in a specified week (a)
Larger establishments in the United Kingdom

|  | 1951 |  |  | 1954 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Males | Females | Total | Males | Females | Total |
| Working proprietors | 162 | 6 | 168 | 130 | 4 | 134 |
| Operatives | 95.124 | 8.673 | 103.797 | 83.817 | 7.022 | 90.839 |
| Administrative, technical and clerical employees | 10.580 | 4.757 | 15,337 | 9,797 | 4.300 | 14.097 |
| Total employees | 105.704 | 13.430 | 119.134 | 93.614 | 11.322 | 104,936 |

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| volune 1 | volune 4 (contd.) | vowne 8 (contd.) |
| :---: | :---: | :---: |
| Coal Mines | H. Printing and Bookbinding Machinery | E. Preserved Moat |
| -Metalliferous Mines and | I. Mechanical Engineering (Genoral) | F. Milk Products |
| Quarries (other than Coal. Salt | K. ELectrical Engineering (General) | H. Sugar and Glucose |
| C. Salt Mines, Brine Pits and | L. Electric Wires and Cables | 1. Cocoa, Chocolate and Sugar |
| D. Slate Quarries and Mines | N. Batteries and Accumulat | J. Preserved Fruit and Vege |
| Metallif forous Mines and Quarrie | Fitings | vowure 9 |
| China and Earthenvaro |  |  |
|  | OUuE 5 | $\text { A. } \operatorname{Mar}$ |
| J. Cement | A. Tool and Implement | C. Cattle, Dog and Poultry Foods |
| K. Abrasives Matorials | C. Chain. Nail, Screr and | D. Vinegar and Other Condimente E. Starch |
| M. Manufactured Fuel | Miscellaneous Forgings <br> D. Wire and Wire Nanufactur | ${ }_{\text {F. }}^{\text {F. Ice }}$ Miscollaneous Preserved Foo |
| vowie 2 | E. Hardmare, Hollorware Motal | H. Brering and Malting |
| Coke Orens and By-products | $\mathrm{fac}^{\text {a }}$ | distil |
| B. Dyes and Dyestuffs | dioss Pins, Fish Hooks | R. Spirit Hectifying |
| C. Fortiliser. Disin fectant. Insecti- | H. Motentific. Surgical and | L. Soft Drinkeonding, British Vines |
| Coal Tar Products | Pho | Cider |
| E. Chenicals (General) | Vatch and Clock | Tobacco |
| Proparations | K. Precious Me tals Refining | vowve 10 |
| Explosives and Firemorks |  | A. Tinber |
| I. Print and Varnish | OLUE 6 | B. Furniture and Upholstery |
| K. Polizhes | A. Cotton Spinning and Do | ${ }_{\text {D }}$. Shop and Offiee Fitting |
| M. Mateh | B. Cotton Weaving | E. Wooden Containere and Ba |
| Mineral Oill hefin | Moollen and Wors ted | F. Ptper and Bacr |
|  | E. Rayon, Nylon, etc. Moaving, and | Cardboard Box, Cart |
| Q. Glue. Gum, Paste and Allied |  | Fibre-barad Packing Case |
| Industries | Flax Processing | Manufactured Stationery. Bag and Kindred Industr |
| n. Plastice hatorials | Jute | Noerspaper and Periodical |
| volure 3 |  | K. Printing and Publishing. |
| Blast Furraces | K. Lace <br> L. Carp |  |
| Ition | M. Narrow Fabricy | volume 11 |
| Iron Foundries | 0. Textile Converting |  |
| Tinplate | P. Made-up Household Tox | ${ }_{\text {B }}^{\text {A. }}$. Lunoleum, Loathercloth and |
|  | R. Textile Paok ing | c. Brushes And Broons |
| Hollilig. ott.) | vowue 7 | D. Toys and Games |
| Scrap Metal Processing Motor Vhicles and Cycles |  | F. Miscelloqueus Stationers Goods |
| Motor Vehiclos and Cycles | Flock and Rag | H. Cinemat tograph Film Printing |
| (Repairing) | - Hair, Fibre and | I. Plastic Goods and Fancy Articl |
| Alailmay Locomotive Shopa and | Leather (Tanning and Dressing) |  |
| Locomot ive Manu facturing | F. Loather Goods | vowne 12 |
| halliay Carriages and Nagons | Fur | Building and Contracting |
| Carts, Perambulators, etc. | Tailoring, Dressmaking. Hats. Caps and M11linery | Local Authorities (Bulldin |
|  | J. Ulorer | hailmays (Civil Eng |
|  | L. Boot and Shoe | Tramary, Trolley Bus and |
| A. Shipbuilding and Ship Repairing |  | (Civil Enginooring) |
| B. Marine Engineering | vourve 8 | Cana1. Dock and Harbour |
| D. Textile Machinery and Accessorios | Grain Mil | Engineoring) |
| E. Small Arns | Bread and | Gas Supply Ind |
| Cons tructio | C. Biecuit | G. Electricity Supply Indust |
| cal Handling | Bacon Curing and Saunago | H. Water Undertakings |

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[^0]:    (a) Excluding outworkers and including working proprietors.
    (b) Excluding expendi ture for establi shments not yet in production

