$$
\begin{aligned}
& \text { S } \\
& \frac{2}{4} 2 \\
& \& \operatorname{rin} 25\rangle
\end{aligned}
$$

BOARD OF TRADE

## Report on the Census of Production 1963

39 Iron castings, etc.


## Report on the Census of Production 1963

## 39 Iron castings, etc.

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


LONDON : HER MAJESTY'S STATIONERY OFFICE

## Notes

These notes give the main information needed for interpreting the figures in the industry reports More detailed informat ion about the Census Notes': Part 1 of the Report on the Census of Production for 1963.)

GENERAL INFORMATION
Changes in the 1963 census
There were few changes resulting from amendment
to the Standard Industrial Classification and nly minor changes in the scope of certa in only minor changes in the scope of certain
industry reports compared with 1958 . Any such changes are explained in the introduct ions to
the industry reports concerned or by footnotes the industry
to the tables.
Industrial Classification
Establishments were classified to industries on stablishments were classified to industries on
the basis of major activity in conformity with the second edition of the Standard Industrial Classiffication (Consolidated Edition 1993, incorporat ing Amendment 1). Each industry was
basically defined in terms of its principal products, these being of a similar nature or commonly associated in production. Normally,
an establishment was classified to an industry an establishment was classified to an industry
if its sales of the principal products of that ndustry accounted for a greater proportion ts total sales principal products of any other industry. How-
ever, where the application of this rule would
have resulted in a change of cassif have resulted in a change of classificat ion
between 1958 and 1963. the establ ishment was etween 1958 and 1963 , the establishment was
eclassified only if the sales of principal products of the newly predominant industry wa more than one third greater than the sales of
principal products of the previously predominant principal products of the previously predominan
industry. This modification of the general ule was introduced for 1958 to avoid disont inuit ies which would result from marginal
changes in sales between successive censuses. The principle of classiffication by major. output was also normally followed in compilin the analysis by sub-divisions of an industry
In certain industries, classification was dealt with in a different way. Details of any on-standard treatment are given in the in

TERMS USED IN THE CENSUS REPORT
Average number employed
irms were required to state the number of persons on the payroll (i.e. whose Nat ional
Insurance cards were held by them) on the verage during the year of return, whether fullime or part-time employees. Separate figures were required for (a) administrative, technical and clerical employees and (b) operatives (see figures relating to the last week of each calendar month; figures shown in respect of the
average number employed relate to the sum of verage number employed relate to the sum of
hese averages. Firms were also required to these averages. Firms were also required to
state the number of working proprietors (see pelow) where appropriate and these are included in total employment figures. Outworkers. are excluded.

The figures include persons engaged in merchant ing or factoring and canteen workers where particulars in respect of these ack

Working Proprietors
These include all persons regarded as 'selfemployed for National Insurance purposes, and nembers of their families who worked in the business wut persons who worked less than half she normal number of working hours are excluded
the ner
For Great Britain, directors working in the For Great Britain, directors working in the business but not in receipt of a definite wag
salary or commission are included under this heading for 1963 , but are excluded for 1958 . For Northern Ireland, directors of 1 imited
companies, other than those paid by fee only, are included for both years. (Directors paid
by fee only are not included in any of the by fee only are not included in any of the
Employees
(i) Administrative, technical and clerica
 development, technical and design employee (other than operatives); draughtsmen and
tracers; editorial staff, staff reporters, canvassers, competition and advertising staff; travellers; and office (including
works off ice) employees. For Great vritain, but not for Northern Ireland, they include also managing and other directors n receipt of a definite wage, salary or
ormission.
commission
(ii) Operatives include all other classes of employees, that is, broadly speaking, all nanual wage earners. They include those employed in and about the factory or works; operatives employed in power
houses, transport work, stores, warehouses shops and canteens; inspectors, viewers
and similar workers; maintenance workers; and similar workers; maintenance workers;
and cleaners. Operatives engaged in outand cleaners. Operatives engaged in out-
side work of erection, fitting, etc. are also included, but outworkers (i.e.
 supplied by the firm) are excluded Information about the numbers of outworkers
employed was collected only for the gloves
industry.

Capital Expenditure
(i) New building work.

This represents the cost incurred dur ing the year of new building and other new
constructional work (including of fice uildings, canteens and the like fice connection with the business covered by the onnect ion with the business covered by the
feturn but not dwelling houses for employees). The value is that charged to
capital account during the year of return; apital account during the year of return;
it includes expenditure on new buildings or on the extension or reconstruct ion of old
building, the value of work of a capital bildings, the value of work of a capital
nature carried out by firms' own staft and nature carried out by firms' own staff, and
the cost of any newly constructed buildings purchased. The figures shown include any egal charges, stamp duties, agents

39 Iron castings, etc.

This Report on the Iron Castings, etc. Industry relates to establishments engaged wholly or mainly in manufacturing pig iron and iron castings. Blast furnaces
forming part of integrated steel works are, however, not included, and for thi reason establishments in this industry account for only a part of total production of pig iron
This industry corresponds to minimum list heading 313 in the Standard Industrial Classification (Consolidated edition, 1963).

METHOD OF CLASSIFICATION
The classification of returns to this industry followed the standard procedure as outlined in the notes on page (ii). A different procedure was used in classifying returns to the sub-divisions of the industry shown in Table 2 . Returns were initially classified on the basis of major output to one of three-main categories,
namely 'Unrefined pig iron'. 'Refined pig iron' or 'Iron castings' Within the namely 'Unrefined pig iron', 'Refined pig iron' or 'Iron castings'. Within the category 'Unref ined pig iron' returns were allocated on a similar basis to either the Forge and foundry sub-division or the Hematite and basic'sub-division.
Returns classified to the 'Iron castings' category were allocated among the nin sub-headings shown in the table on the basis of information obtained from the short period production statistics collected by the Iron and Steel Board which, for this industry, contain more product detail than the census. Since a product breakdown ' 'characteristic products' shown in collected in the census, the total value of industry relates to sales of iron castings of all kinds, not only those appropriate to the sub-division. In interpreting the data in the tables it is essential to bear in mind
the notes and definitions which appear on pages (ii). (iii), and (iv).

| Table <br> No. | Title |
| :--- | :--- | :--- | :--- |

TABLE 1 Industry summary: United Kingdom
Estimates for all firms, 1958 and 1963 (a)

|  | Unit | 1958 | 1963 |
| :---: | :---: | :---: | :---: |
| Number of enterprises | No. | 1,006 | 1,058 |
| Number of establishments | - | 1,120 | 1,196 |
| Gross output | \&.000 | 261,285 | 308,250 |
| Net output | " | 108,693 | 143,208 |
| Net output per head | $\varepsilon$ | 975 | 1,272 |
| Sales and ork done $\quad\{$ goods produced and work done | \& 000 | 251,093 | 294,407(b) |
| Sales and work done $\quad$ merchanted goods and canteen takings | " | 7,033 | 13,454 |
| Purchases $\quad\left\{\begin{array}{l}\text { materials for processing and } \\ \text { packaging, and fuel }\end{array}\right.$ | * | 137,535 | 142,180 |
| Purchases $\left\{\begin{array}{l}\text { goods for merchanting and } \\ \text { canteen purchases }\end{array}\right.$ | * | 157,0 | 12,249 |
| Payments to other organisations $\quad\left\{\begin{array}{l}\text { for work done on materials given out } \\ \text { for transport }\end{array}\right.$ | " | 1,703 10,645 | 2,316 7,492 |
| Stocks and work in progress |  |  |  |
| Total stocks and work in progress | " | + 450 | - 417 |
| progress $\quad\left\{\begin{array}{l}\text { at end of year }\end{array}\right.$ |  | 37,680 | 39,841 |
| change during year | * | + 3,517 | - 558 |
| Goods on hand for sale $\quad$ at end of year | . | 15,409 | 14,824 |
| \{ change during year | * | - 358 | + 947 |
| Work in progress $\quad\left\{\begin{array}{l}\text { at end of year }\end{array}\right.$ |  | 5,792 | 7,392 |
| (s) change during year |  | - 2,709 | - 806 |
| Materials, stores and fuel $\left\{\begin{array}{l}\text { at end of year }\end{array}\right.$ |  | 16,479 | 17,625 |
| fotal, including working proprietors | Th. | 111.5 | 112.6 |
| Average number employed $\quad\left\{\begin{array}{l}\text { operatives }\end{array}\right.$ | - | 95.0 | 95.2 |
| other employees (c) | * | 16.3 | 16.4 |
| \{ of operatives | \&. 000 | 58,730 | 75,563 |
| Wages and salaries $\quad\left\{\begin{array}{l}\text { of other employees (c) }\end{array}\right.$ | * | 12,070 | 15,030 |
| Employers' contributions to National Insurance and private pension schemes, etc. (d) <br> Capital expenditure (e) |  |  |  |
|  |  |  |  |
| Total | * | . | 12,112 |
| New building work | * | 2,630 | 4,277 |
| Land and existing buildings (f) | , | . | 254 |
| Plant and machinery (f) | * | 10,939 | 7,429 |
| Vehicles (f) | * | 524 | 660 |

[^0]TABLE 2 Analysis of larger firms by sub-divisions within the industry, 1958 and 1963 Firms employing 25 or more persons: United Kingdom (a)

| Firms employing 25 or more persons: United Kingdom |
| :--- |
| (a) |
|  |


| Sub-divisions of the industry (b) |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Refined pig iron |  | Iron castings |  |  |  |  |  |  |  |
|  |  | Pressure pipes and fittings |  | Other pipes and fittings |  | Stoves, grates, etc. |  | Cisterns, baths andother sanitary goods |  |
| 1958 | 1963 | 1958 | 1963 | 1958 | 1963 | 1958 | 1963 | 1958 | 1983 |
| 6 | 3 | 21 | 15 | 19 | 14 | 23 | 20 | 11 | 9 |
| 6 | 4 | 32 | 25 | 25 | 19 | 32 | 26 | 14 | 13 |
| 3,970 | 3,586 | 37,165 | 38,385 | 11,734 | 9,581 | 10,987 | 17,377 | 5,809 | 11,836 |
| 729 | 790 | 13,447 | 15,148 | 5,927 | 4,664 | 5,899 | 9,075 | 2,917 | 7,081 |
| 1,028 | 1,834 | 986 | 1,239 | 950 | 1,081 | 885 | 1,315 | 1,109 | 2,079 |
| 3,956 | 628(e) | 35,461 | 37,612(e) | 10,547 | 7,551(e) | 10,611 | 15,787(e) | 5,678 | 10,967(e) |
| - | 3,628(e) | 1,146 | 990 | 1,041 | 1,975 | 554 | 1,438 | 55 | 1,038 |
| 3,674 | 3,422 | 25,936(f) | 29,257(f) | 9,500(f) | 6,701(f) | 10,455(f) | 14,092(f) | 4,795(f) | 10,127(f) |
| 93 | 94 | 73 | 78 | 90 | 89 | 99 | 89 | 84 | 92 |
| 2,882 | 2,632 | 20,414 | 20,319 | 5,327 | 2,737 | \},347 | 6,371 | 2,729 | 3,539 |
|  |  |  | 919 |  | 1,838 |  | 1,299 |  | 967 |
| - | - | 47 | $l_{3,045}$ | 71 | 85 | 349 | 329 | 35 | 29 |
| 202 | 173 | 2,815 | $\int^{2,045}$ | 363 | 236 | 346 | 375 | 140 | 171 |
| + 21 | - 41 | + 593 | - 238 | + 137 | + 47 | - 97 | + 83 | + 92 | - 145 |
| 68 | 107 | 4,292 | 3,835 | 1,019 | 725 | 553 | 680 | 205 | 571 |
| - 7 | - | - 35 | + 22 | + 9 | + 7 | - 81 | + 69 | - 16 | - 24 |
| 10 | - | 748 | 335 | 308 | 207 | 446 | 792 | 139 | 146 |
| - 158 | + 9 | - 443 | + 46 | - 46 | - 22 | - 45 | + 74 | + 12 | - 50 |
| 192 | 163 | 3,462 | 3,786 | 739 | 268 | 723 | 939 | 306 | 449 |
| 709 | 431 | 13,644 | 12,225 | 6,241 | 4,314 | 6,669 | 6,899 | 2,631 | 3,405 |
| 558 | 351 | 11,334 | 9,927 | 5,174 | 3,660 | 5,289 | 5,426 | 2,261 | 2,803 |
| 151 | 77 | 2,310 | 2,298 | 1,063 | 643 | 1,380 | 1,467 | 370 | 601 |
| 350 | 310 | 6,953 | 7,360 | 2,935 | 2,467 | 2,827 | 3,777 | 1,401 | 2,377 |
| 101 | 88 | 1,686 | 1,968 | 639 | 535 | 831 | 1,098 | 302 | 450 |
| 627 | 884 | 613 | 741 | 567 | 674 | 535 | 696 | 620 | 848 |
| 670 | 1,143 | 730 | 856 | 601 | 832 | 602 | 747 | 815 | 748 |
| . | 16 | . | 366 | -• | 132 | .. | 212 | .. | 113 |
| -• | 9 | . | 277 | -• | 23 | -• | 55 | . | 41 |
| * | - | 351 | 167 | 42 | * | 17 | 106 | 41 | 37 |
| - | - | . |  | . | 5 | . | - | . | - |
| .. | - | -• | $m)\{$ | . | - | . | 41 | . | 5 |
| 57 | ) $124(\mathrm{~m})$ | 2,783 | 6 694(m) | 136 | 96 | 110 | 282 | 113 |  |
| - | $\}^{124(\mathrm{~m})}\{$ | 13 | $]^{694(\mathrm{~m})}$ \{ | * | 6 | 2 | 36 | * | $\int 180(\mathrm{~m})$ |
| 3 | \} 11(m) | 45 | 33 | 31 | 35 | 54 | 110 | 53 | ] $103(\mathrm{~m})$ |
| 2 |  | 18 | 4 | 6 | 11 | 17 | 34 | 14 |  |


| TABLE 2 (continued) |
| :--- |



For notes to this table - see page 39/9

TABLE 3 Analysis of larger firms by size of enterprise within the industry, 1963
(i) Output, employment, capital expenditure and stocks

Firms employing 25 or more persons: United Kingdom

| Average number employed by the enterprise in the industry (a) | Enter- <br> prises | $\underset{\substack{\text { Estab- } \\ \text { lish- }}}{ }$ ments | Average employed (a) | Gross output | $\begin{gathered} \text { Net } \\ \text { output } \end{gathered}$ | Net output per head | Capital ture (b) | Total value of stocks and ork in progres end of yeat |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Number | Number | \& 000 | ع ${ }^{\prime} 000$ | $\varepsilon$ | £'000 | £'000 |
| 25-49 | 139 | 142 | 5,120 | 9,037 | 5,260 | 1,027 | 358 | 731 |
| 50-99 | 123 | 129 | 8,742 | 15,677 | 8,885 | 1,016 | 628 | 1,247 |
| 100-199 | 72 | 81 | 9,905 | 20,990 | 11,239 | 1,135 | 282 | 1,728 |
| 200-299 | 34 | 46 | 8,555 | 20,304 | 11,089 | 1,296 | 639 | 1,906 |
| 300-399 | 20 | 28 | 8,672 | 15,517 | 7,660 | 1,148 | 872 | 1,922 |
| 400-499 | 8 | 10 | 3.518 | 8,844 | 3,301 | 938 | 129 | 2,756 |
| 500-749 | 8 | 13 | 5,111 | 15,671 | 6,960 | 1,362 | 354 | 1,778 |
| 750-999 | 8 | 21 | 7,117 | 17,789 | 8.543 | 1,200 | 278 | 1,581 |
| 1,000-1,499 | 7 | 18 | 7,615 | 28,879 | 9,626 | 1,264 | 806 | 5,902 |
| 1,500-2,499 | 3 | 11 | 6,563 | 17,589 | 8,968 | 1,366 | 322 | 3.454 |
| 2,500-3,999 | 3 | 10 | 8,980 | 20,516 | 11,216 | 1,249 | 1,743 | 1,851 |
| 4,000 and over | 4 | 35 | 26,311 | 94,476 | 39,793 | 1,512 | 4,798 | 12,020 |
| Total | 429 | 544 | 104,209 | 285,289 | 132,540 | 1,272 | 11,210 | 36,873 |

(ii) Employees, wages and salaries, and employers' contributions Firms employing 25 or more persons: United Kingdom

| Average number employed by the enterprise in the industry (a) | Employees |  | Wages and salaries |  | Employers ${ }^{\circ}$ contributions |  | Wages and salaries per head |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Oper- atives | $\begin{aligned} & \text { Others } \\ & \text { (c) } \end{aligned}$ | $\begin{aligned} & \text { Oper- } \\ & \text { atives } \end{aligned}$ | Others (c) | National Insurance <br> (d) | Private pension pension etc. (e) | $\begin{aligned} & \text { Oper- } \\ & \text { atives } \end{aligned}$ | $\begin{aligned} & \text { Others } \\ & \text { (C) } \end{aligned}$ |
|  | Number | Number | \& 000 | \& 000 | \& 000 | \& 000 | \& | $\varepsilon$ |
| 25-49 | 4,398 | 612 | 3,090 | 592 | 162 | 35 | 703 | 967 |
| 50-99 | 7.581 | 1,082 | 5,368 | 1,045 | 279 | 65 | 708 | 966 |
| 100-199 | 8,648 | 1,232 | 6,330 | 1,247 | 304 | 90 | 732 | 1,012 |
| 200-299 | 7,279 | 1,286 | 5,221 | 1,107 | 257 | 98 | 717 | 874 |
| 300-399 | 5,855 | 1,013 | 4,073 | 916 | 198 | 89 | 720 | 905 |
| 400-499 | 3,010 | 508 | 2,093 | 470 | 101 | 29 | 695 | 926 |
| 500-749 | 4,350 | 761 | 3.482 | 699 | 149 | 51 | 801 | 918 |
| 750-999 | 6,073 | 1,040 | 4.872 | 870 | 222 | 36 | 802 | 837 |
| 1,000-1,499 | 6,293 | 1,322 | 4.499 | 1,170 | 216 | 112 | 715 | 885 |
| 1,500-2,499 | 5,280 | 1,283 | 3,791 | 1,083 | 215 | 98 | 718 | 844 |
| 2,500-3,999 | 7,908 | 1,070 | 7.061 | 1,032 | 282 | 117 | 893 | 964 |
| 4,000 and over | 22,212 | 4,099 | 20,534 | 3,775 | 797 | 474 | 924 | 921 |
| Total | 88,687 | 15,288 | 70,412 | 14,005 | 3,181 | 1,295 | 794 | 916 |

[^1](b) Acquisitions less disposals.
(c) Administrative, technical and clerical employees
(d) Including both flat rate and graduated contributions
(e) Including pensions and gratuities paid other than from pension funds. These amounted in
total to $£ 143,000$.

$\begin{array}{ll}\text { TABLE } 4 & \begin{array}{l}\text { Percentage analysis of employees, by age and } \\ \\ \text { sex, all firms, 1963: United Kingdom (a) }\end{array}\end{array}$

| Ages | Hales | Females | All employees |
| :---: | :---: | :---: | :---: |
| Under 18 | Per cent. | Per cent. | Per cent. |
|  | 4 | 1 | 5 |
|  | 85 | 10 | 95 |
|  | 89 | 11 | 100 |

Source: Ministry of Labour
(a) The percentages relate to the numbers employed (excluding
working proprietors) at mid-June, 1963 .

## ootnotes to Table 2.

(a) The following information relates to small firms (employ-
ing fewer than 25 persons) in this industry. It includes in estimate for small firms not making satisfactory $\begin{aligned} & \text { in } \\ & \text { and } \\ & \text { returns, which account for }\end{aligned}$ returns, which account for 2 per cent. of the employment
shown for 1963 and also 2 per cent. for 1958 .

$$
\begin{array}{lrr} 
& 1958 & 1963 \\
\text { Number of firms } & 475 & 630 \\
\text { Average number employed: } & &
\end{array}
$$

$\left.\begin{array}{l}\text { Working proprietors } \\ \text { Other persons employed }\end{array}\right\} 6,147\left\{\begin{array}{r}777 \\ 6,169\end{array}\right.$
(b) The method of classifying returns to sub-divisions of the
(c) Revised figures.
(d) The sum of the $f$
total for the industry to the extent that enterprises made returns for more than one sub-division.
e) Including services rendered to other organisations (amounts charged for hiring out plant, machinery and other goods,
for providing transport, or for technical or other services for provid.
(f) Sales of castings for all types, not only thos
characteristic of the narrower sub-division.
characteristic of the narrower sub-division.
(g) Characteristic products relate only to specific sub-
(h) For sub-divisions of the industry, this is the ratio of sales of character istic products to total sales of goods produced and work done. Where appropriate, the denominator
includes the value of merchanted goods and canteen takings. includes the value of merchanted goods and canteen taking
For the industry as a whole, this is the ratio of total sales of principal products by the industry to total sales of goods produced and work done.
(i) Administrative, technical and clerical employees.
(j) Including both flat rate and graduated contributions.
(k) Including pensions and gratuities paid other than from
(k) Including pensions and gratuities paid other than from
(1) Excluding expe
(1) Excluding expenditure for establishments not yet in
(m) Acquisitions less disposals.

TABLE 5 Sales of principal products of the industry by larger firms, including Sales of principal products of the industry by larger firms, including
sales by establishments classified to other industries, 1958 and 1963 Firms employing 25 or more persons: United Kingdom

(a) Revised figures.
(b) This figure represents the total number of returns made by larger firms in this industry, which is less than the total number of establishments in Table 2 on account of combined returns covering less than the total number
more than one establishment.

TABLE 6 Sales of principal products of the industry by establishments classified to other industries, 1958 and 1963
Firns employing 25 or more persons: United Kingdom

|  | 1958 |  | 1963 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Quantity | Value | Entries | $\begin{gathered} \text { Principal } \\ \text { industries } \\ \text { in which } \\ \text { produced }(\mathrm{a}) \end{gathered}$ |
| Pig iron including direct iron castings | Th.tons | \& 000 | Th. tons | £ 000 | Number |  |
| Forge and foundry |  |  | 50.1 | 1,289 | * | 37, 52, 74 |
| Hematite | $\{1,538$ | 31,849) | 241 | 6,041 | * | 37, 40 |
| Basic Refined |  |  |  | 34,526 | 16 | 37, 40 |
| Iron castings in the rough or machined | $\stackrel{229}{ }{ }^{-}$ | 14,354 | 188 | $\begin{array}{r}14,468 \\ 5,234 \\ \hline 1,267\end{array}$ | \} 251 | (b) |
| Wood and metal patterns | . | 1,070 | . | 1,267 | 94 | (b) |
| Total |  | 61,335 |  | 62,825 | . |  |

(a) The references given are to the list of industries at the back of this report. (b) Production is widely distributed.

TABLE 7 Sales of other than principal products by larger firms in the industry, 1958 and 1963
Firms employing 25 or more persons: United Kingdom

Steel castings and forgings, including manufactures of
iron and steel
Castings of aluminium and aluminium alloys
Castings of brass, machined
Rough castings of brass
Manufactures of copper and brass and other copper alloys Other manufactures of non-ferrous metals
Machine tools and parts
Engineers' small tools
Internal combustion reciprocating engines and parts
Contractors' plant and parts, including mechanical hand-
ling and mining machinery and parts
Iron and steel rolls for metal rolling mills and for
other machinery (sugar, flour, rubber, etc, mills) Machinery and parts unclassified
Iron or steel fabricated
Other and unclassified engineering products
Other goods
Work done
Structural work carried out in the United Kingdom (a)
Work done as main contractors
Work done as sub-contractors
Other work including general and jobbing engineering Services rendered to other organisations (b)
Total value of goods sold without having been subjected o any manufacturing process (merchanted or factored) Canteen takings
(a) Value of work done, exclusive of the value of goods used by firms and recorded as their
output. The value of these goods was $£ 18,000$ in 1958 and $£ 41,000$ in 1963 .
(b) Amounts charged for hiring out plant, machinery or other goods, for providing transport,
or for technical or other services rendered to other organisations.
(c) Excluding amounts charged for services rendered to other organisations

TABLE 8 Production of certain principal products of the industry by larger firms, including production by establishments classified to other ndustries, 1958 and 1963

This table is not applicable to this industry.

TABLE 9 Purchases of selected principal products of the industry by larger firms, 1963

This table is not applicable to this industry

The main purchasing industries of iron castings, etc. are listed in Table 9 f the report on Iron and Steel (General)(Part 37) together with the detail of the quantity and value purchased by each industry.

TABLE 10 Purchases by larger firms in the industry, 1954 and 1963 Firms employing 25 or more persons: United Kingdom

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

TABLE 10 (continued)

(a) Includes hoop and strip (including tape) of all thicknesses in 1954.
(b) 'Wire' was not specifically excluded in 1954.
(c) Described only as 'Limestone' in 1954.
(d) Not recorded separately for 1954.
(e) 'Aluminium alloys' were not specifically included in 1954.
(f) The total quantity of electricity generated in firms' own establishments in this industry was
$365,422 \mathrm{Th}$. kWh in 1954 and 103,488 Th.kWh in 1963 .

TABLE 11 Transport costs and employment of large firms, 1963
Firms employing 25 or more persons: United Kingdom

|  | Unit | 1963 |
| :---: | :---: | :---: |
| Average number employed mainly on transport | No. | 917 |
| Transport costs |  |  |
| Wages and salaries | \& 000 | 716 |
| Derv fuel and motor spirit | * | 438 |
| Payments to other organisations for transport | " | 6,934 |
| Costs of operating road goods vehicles |  |  |
| Insurance | " | 60 |
| Vehicle licences | * | 53 |
| Depreciation | * | 335 |
| Payments to other organisations for repairs and maintenance | " | 160 |
| Total |  | 8,695 |



[^2]TABLE 13 Percentage analysis of twelve-month periods Percentage analysis of twel ve-month period
covered by returns from larger firms, 1963 Firms employing 25 or more persons:

| Year ended | Percentage of <br> total number <br> employed | Year ended | Percentage of <br> total number <br> employed |
| :--- | :---: | :---: | :---: |
| 1963 | Per cent. | 1963 <br> (contd.) | Per cent. |
| April (a) | 7.0 | November | 0.3 |
| Nay | 0.3 | December | 38.5 |
| June | 7.3 |  |  |
| July | 7.3 | 1964 |  |
| August | 3.0 | January | 0.7 |
| September | 20.0 | February | 0.4 |
| October | 0.3 | March | 14.9 |

(a) Including returns made for twelve-month periods ended 1 st to 5 th April, 1964.

TABLE 14 Sales of all parts of machinery and plant by larger firms, including sales by estab classified to other industries 1958 and 1963

This table is not applicable to this industry

Capital Expenditure (continued)
(ii) Land and existing buildings.

The items shown are the capital cost of premium payable for leaseholds acquired premium payable for leaseholds acquired
(excluding the value of any assets acquired in taking over an existing business), and the amounts receivable for any freeholds or
leaseholds disposed of. The value is that charged to capital account during the year of return
(iii) Plant, machinery and vehicles

The items shown are the value of plant and machinery and of vehicles acquired, bo
new and second-hand, and the amount new and second-hand, and the amount
rece ived for items disposed of dur ing the year. The value of plant and machinery acquired includes plant, etc. which firms
produced for their own use in connection produced for the ir own use in connection
with the business covered by the return. The value of plant, etc. acquired is the expenditure charged to capital account
during the year of return less any discounts received, but including the cost of
transport and installation. No deduct ion transport and installation. No deduction is made for depreciation, amortisation or
obsolescence. The proceeds of items disposed of during the year exclude amount
dis. inten off for items scrapped.
Capital expenditure during the year in respect
of manufacturing establ ishments where production had not started before the end of year is excluded in this report for both 1958 nd 1963.
Characteristic Products
The characteristic products of a sub-division are those in terms of which the sub-division is
defined. They are products commonly associaded in production and are usually sim associanature or manner of production. In most cases nature or manner of production. In most cas
the characteristic products of each subdivision are indicated in Table 5 of the industry reports. For those industries for
which an analysis by sub-divisions has been Which an analysis by sub-divisions has been
made, Table 2 shows the total sales of such characterist ic products for each sub-division.
The totals include besides the products which The totals include, besides the products which
define the sub-division, other items of dafsumed to be closely related to them, e.g. waste products and work done.

Enterprise
The term enterprise is used in this report to mean one or more firms under common ownership o control. An enterprise normally consists
either of a single firm, or of a parent co together with its subsidiary companies.
Entries
The number of entries shown in Tables 5, 6 and 8 against a particular output or production
heading is the number of returns on which heading is the number of returns on
figures were recorded for that
Establishment
The census was based on the establishment comprising in most cases the whole of the
premises under the same ownership or management at a particular address (e.g. a factory or mine); but firms were asked to exclude fr relating to any department not engaged in production for which they kept a separate set of accounts. Where separate accounts were not
factoring, canteens operated by them and other
ancillary activities such as bottling, packing and the manufacture of continers for packing activities are carried on at the same ad as the works. Building and engineering port departments were treated similardy trans

## Gross Output

gate value of gut of an industry is the aggre gate value of goods made and other work done
dur ing the year by the establishments fied to the industry. It is derived by sub tracting from the value of sales and work done
the value of stocks of the val year and adding the value at the end of the

Larger Firms
These are firms in which twenty-five or more persons were employed on the average during the year.
Net Output
The net output of an industry represents the
value added to materials by the process of pron duction. merchanted or factored goods sold; it con- any stitutes the fund from which wages, salaries, insurance, pensions, hire of plant and machinery, payments for repairs and mainten-
ance, costs of ance, costs of operating road vehicles, rents,
rates and taxes, advertising and other selling expenses and all other similar charges have to be met, as well as depreciation and prof its There is no appreciable duplication in net out
put. Net output has been obtained by deduct-ing from the gross output the cost of purchase adjusted for stock changes, payments for work
transpor
Normally any customs or excise duty on Normally any customs or excise duty on
materials purchased is included in the cost of
materials. Similarly finished toods sold have been valued as they were sold, duty paid duty free. The amounts of duty, subsidies where of subd levies receivable or payable, were required to be stated separately, and thes items were taken into account when calculating net output
Net output per person employed
The figures for net output per person employed are derived by dividing the net output by the average number of persons employed (full-t ime and part-time) on all activities covered by th
returns, including operatives, administrative returns, including operatives, administrative,
technical and clerical employees and working proprietors, but excluding outworkers. Principal Products
The principal products of an industry are in terms of which the industry is defined They are products commonly associated in pro-
duction, and are usually similar in nature or duction, and are usual
manner of production.
Production
This means the total quantity of a product made dur ing the year, whether sold in the year, added the same firms, or used in the manufacture of the same firm, or used in the manufacture of
other products within the business covered by other products within the business covered by
the return. It includes goods produced from materials supplied by other firms.

Purchases include the cost of materials and
components bought for use in production; of components bought for use in production; of
fuel and electricity for all purposes; of pack-
aging materials, including the full cost of reaging materials, including the full cost
turnable cases and containers when first turnable cases and containers when first
purchased; of workshop materials, off fice purchased; of workshop mater repairs to firms'
materials and materials for real
own buildings, plant and vehicles when carried own buildings, plant and vehicles when carried
out by their own workpeople included in the out by the ir own workpeople included in the
return; of consumable tools; and of parts fo return; of consumable tools; and of parts for
machinery purchased dur ing the year as replace-
ments. Water charges are also included. In ments. Water charges are also included. In
meneral purchases of goods for merchanting or general purchases of goods for merchanting or
factor ing and canteen supplies are included. factoring and canteen supplies are included.
Materials supplied by customers for processing The values shown include any duty paid (less rebate, etc.) but exclude trade discounts allowed. The cost of transport is included
only if included in the cost of materials as only if included in the cost of materials as
invoiced; amounts paid to transport organisations, including firms' own separate transport
organisations, for del ivery of materials and organisations, for del ivery of materials and
fuel are, therefore, excluded. Materials fuel are, therefore, excluced. Materials
purchased overseas are included at their c.i.f cost plus any duty payable if the cost of
transport from the docks was not included in the transport from the docks was not included in the
innoiced price, but at their full delivered cost invored pred carriage paid home'. Materials
if invoiced
and fuel transferred from another department of and fuel transferred from another department of
the firm not covered by the same return are the firm not covered by the same return are
included at the estimated selling value recorded by the other department.
Sales
Sales are in respect of goods made by the
business covered by the return, goods made for it by outworkers or by other firms from
materials given out to them (sometimes described naterials given out to them (sometimes described
as goods made on commission) and waste products. as goods made on commission) and waste product
Any mach inery or other capital items produced for use in the business covered by the return are included, the value being that adopted in
the firm's capital asset account. Goods sold without being subjected to any manufacturing process (merchanted or factored) and canteen
takings are included as in 1958. takings are included as in 1958 .
The value shown for sales is the net selling value, def ined as the amount charged to
customers whether on an ex-works or delivered customers whether on an ex-works or delivered
basis, net of any trade discounts, agents basis, net of any trade discounts, agents
commissions, allowances for returnable cases, purchase tax, etc.: the net amount charged for packing mater ials is included. Goods charged on a divered basis to customers overseas are
included at the f.o.b. value. For work done on ncluded at the f.o.b. value. For work done on
ommission or for the trade the value shown is
he net amount charged.
Where goods produced in one department were cransferred to another department of the same
firm not covered by the return, these transfers firm not covered by the return, these transfers
were treated as sales by the producing depart-
ment and valued as far as possible as if they ment and valued as far as possible as if they
had been sold to an independent purchaser. oods transferred to wholesale or retail selling organisations for which separate accounts
were kept were valued on the same basis. Estimations of a similar kind were also sometimes necessary in valuing transfers betwee
different firms belonging to the same enter different firms belonging to the same enter
prise. To the extent that the sales of
finished products of one establishment may finished products of one establishment may
constitute the materials purchased by another constitute the materials purchased by another
total figures of the value of sales (and of otal figures of the value of sales (and of
taterials and fuel purchased) include an element of duplication.

Services rendered
This represents the amounts charged for hiring
out plant, machinery and other goods, providing out plant, machinery and other goods, prov
transport, or for any technical or other
for any technical or other
services rendered to other organisations. It services rendered to other organisations. It
includes amounts credited for similar services
rendered to mer departments of the same firm rendered to other departmen
not covered by the return.
Small Firms
These are firms in which fewer than twenty-five
persons were employed on the average during the person
year.
Stocks and Work in Progress
Stocks and Work in Progress
Values are given of stocks of goods on hand for Values are given of stocks of goods on hand for
sale, and of materials and fuel, at the beginning and end of the year of return, including any stocks of goods held for merchanting or
factoring. The values include duty in the ca factoring. The values include duty in the case
of dutiabie goods held out of bond. The value of work in progress at the two dates is also usually shown. This excludes any progress payments made to sub-contractors, and no de-
duction is made on account of progress payments rece ived.
Transport Payments
These represent the total amount paid or credited during the year for both outwards cransport of finished goods sold and inward
transport of materials and fuel purchased. transport of materials and fuel purchased.
They include payments to other firms, and to any separate transport organisation of the to same
firm, not covered by the return, but exclude firm, not covered by the return, but exclude
the value of transport services provided by the business covered by the return. The items included are payments for hired cartage and fo inwards and outwards carriage by all forms of
inland transport, i.e. railways, road haulage, canals, coast-wise shipping, air, etc.
Payments made for sea freight on goods sold to Payments made for sea freight on goods sold to
customers overseas and on materials and fuel customers overseas and on materials and fuel
purchased from overseas suppliers are excluded
Wages and Salaries
These are the amounts paid during the year to operalives and to administrative, technical Payments to working
proprietors, whether called salaries or not, are excluded; in Northern Ireland this xclusion extends also to payments to excusion extends also to payments to
directors of 1 imited companies. The values
shown include all shown incluce all overtime payments, bonuses
and commissions, whether paid regularly or no and commissions, whe ther paid regularly or no insurances, contributory pensions, etc. The value of any payments in kind, travelling
expenses, lodging allowances expenses, odg ing allowances, etc. and
employers' contributions to National Insurance nd pension schemes is excluded

Work given out
The figures shown represent the total amount paid for work done by other firms on materials
supplied to them, and also by firms' own supplied to them, and also by firms own
establishments for which separate returns were nade. They do not include payments to and other services.
Symbols used
The following symbols are used throughout the eport:
.. Not availabl

Nil or negligible (less than half the * Figures cannot be shown owing to the Figures cannot be shown owing o the
risk of disclosing information about
individual enterprises.

## Rounding of Figures

The figures in the tables have, where necessary been rounded to the nearest final digit. There may, therefore, be apparent slight discrepancies
between the sums of the constituent items and between the sums
the totals shown.
supplied to them, and also by firms own
establishments for which separate returns were
nade. They do not include payments to
individual outworkers or payments for business
Symbols used
Symbols used
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report:
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final digit shown)
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7 Grain Mill ing
8 Bread and Flour Confectionery 
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11 M11k P
I2 Sugar Chocolate and Sugar Confectionery 
13 Cocoa, Chocolate and Sugar C
15 Animal and
17 Starch and Miscellaneous Foods
lol
lol
21 Tobacco
*)
24 Lubricat ing
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28 Pharmaceutical Preparations
28 Pharmaceutical Prepar 
30 Explosives and Fireworks
31 Paint and Printing Ink
$2 Vegetable and Animal Oils and Fats 
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$3 Polishes,
$38 Steel Tubes
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40 Non-ferrous Metals
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43 Engineers' Small Tools and Gauges 
45 Textile Machinery and Accessor ies 
47 Mechanical Handl ing Equipment
48 off ice Machinery,
48 Office Machinery (Non-electrical) Mach inery 
M,
L,
Mnstruments, etc.
54 Watches and Clocks
56 Insulated Wires and Cables
57 Telegraph and Telephone Apparatus
58 Radio and Other Electronic Apparatus
$ Domestic Electrical Appliances
60 Miscellaneous Electrical Goods 
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2 Cans and Metal Boxes Refining of Precious
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Narrow Fabrics 
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Mellmongery

1. Leather Goods
2. Leather Goods
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Overalls and Men's'shirts, Underwear, etc.
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8 Hats, Caps and Millinery Wear, elc.
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lolmear (tces, Fireclay and Refractory Goods
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Miscellaneous Building Materials, etc.
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10 Bedding and Soft Furnishings
10 Bedding and Soft Furnishings
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11 Shop and Office Fitting
11 Shop and Office Fitting
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15 Cardboard Boxes,
15 Cardboard Boxes,
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Cartons and Fibre-board
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Carabard Boxes
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Macking Cases,
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17 Printing and Publishing
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[^0]:    (a) For 1963, estimates for small firms and for firms not making satisfactory returns accounted for ) For 1963 , estimates for small firms and for firms not making satisfactory returns (For 1958 the
    about 7 per cent. of the total figures in which they were incorporated.
    comparable figure was 6 per cent.) A summary of the detailed returns received is given in Table 2.
    (b) Including services rendered to other organisations (amounts charged for hiring out plant,
    machinery and other goods, for providing transport, or for technical or other services rendered). machinery and other goods, for providing transpor
    (c) Administrative, rechnical andies paid other than from pension funds.
    (e) Excluding expenditure for establishments not yet in production.
    (f) Acquisitions less disposals.

[^1]:    (a) Including working proprietors.

[^2]:    (a) No deduction is made for these payments to arrive at the figures ne output given in this report.
    (b) For details see Table 11

