$$
\begin{aligned}
& 5 \\
& 42 \\
& {[\text { HA 251] }}
\end{aligned}
$$

BOARD OF TRADE

# Report on the Census of Production 1963 

71 Wire and wire manufactures

## Report on the Census of Production 1963

71 Wire and wire manufactures

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)

## Notes

These notes give the main information needed for interpreting the figures in the industry repor
(More detaiied information about the Census is given in a separate booklet - Introductory
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. only minor changes in the scope of certain industey reports compared with 1958. Any such thanges are explained in the introductions to
the
industry reports concerned or by footnotes to the tables.
Industrial Classification
Establishments were classified to industries on
the basis of major activity in the basis of major act ivity in conformity wit
the second edition of the Standard Industrial Classif ficat ion (Consolidated Edition 1963 ,
incorporat ing Amendment 1). Each industry incorporating Amendment 1). Each industry was
basically defined in terms of its principal products, these being of a similar nature commonly associated in product ion. Nore Nor $\begin{aligned} & \text { Nor } 1 \text { y, } \\ & \text { an estab ishment was classif ied to an industry }\end{aligned}$ an establishment was classified to an industry
if its sales of the principal products of that industry accounted for a greater proportion o its total sales than did its sales of the
principal products of any other industry. principal products of any other industry. How-
ever, where the application of this rule would have resulted in a change of classification between 1958 and 1963, the establishment was
reclassified only if the sales of principal products of the newly predominant industry more than one third greater than the sales of
principal products of the previously predemin principal products of the previously predominant
industry.
This modification of the general rule was. introduced for 1958 to avoid dis--
continuit ies continuit ies which would result from marginal
changes in sales between successive censuses. Changes in sales between successive censuses.
The principle of classification by major output was also normally followed in compiling
the analysis by sub-divisions the analysis by sub-divisions of an industry.
In certain industries, classification was dealt with in a different way. Details of any non-standard treatment are given in the intro-
ductions to the relevant industry reports.
terms used in the census report
verage number employed
Firms were required to state the number of Insurance cards ware held by them) on the average during the year of return, whe ther full-
$t$ ime or part-time employees. Separate figures were required for (a) administrative, technical and clerical employees and (b) operatives (see below). Averages could be calculated from
figures relating to the last week of calendar month; figures shown in respect of average number employed relate to the sum of these averages. Firms were also required to
state the number of working proprietors (see below) where appropriate and these are included in total employment figures. Outworkers are excluded

The figures include per sons engaged in merchanting or factoring and canteen workers where particulars in respect of these activities
could not be excluded from the return.
Working Proprietors
These include all persons regarded as 'self-
employed' for National Insurance purposes, and employed for National Insurance purposes, a
members of their families who worked in the business without receiving a fixed wage or salary; but persons who worked less than half
the normal number of working hours are excluded. the normal number of working hours are excluded
For Great Britain, directors working in the business but not in receipt of a definite wage 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 employment figures for either year.)
Employees
(i) Administrative, technical and clerical
employees include managers, superintendents
and works foremen; research, experimentale and works foremen; research, experimental,
deve lopment, technical and design employee (other than operatives): draughtsmen and
tracers; editorial staff, staff reporters tracers: editorial staff, staff reporters
canvassers, competition and advertising canvassers, compet it ion and advertising
staff; travellers; and office (including
works office) ent works off fice) employees. For Great
Britain, but not for Northern Britain, but not for Northern Ireland, they
include also managing and other directors in receipt of a definite wage, salary or in rece
(ii) Operatives include all other classes of employees, that is, broadly speaking, al
manual 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 shops and canteens; inspectors, viewers
and similar workers; maintenance workers; and cleaners. Operat ives engaged in side work of erection, fitting, etc. are persons employed by the firm who worked in heir own homes, etc. on materials
supplied by the firm) are excluded Information theout the are excluded.
Imploys of outworkers employed was collected only for the gloves
industry.
Capital Expenditure
(i) New building work.

This represents the cost incurred during
the year of new building and the year of new building and other new
constructional work (including office buildings, canteens and the like used in
connection with the business covered by the connect ion with the business covered by the return but not dwelling houses for employees). The value is that charged to
capital account during the year of retur it includes expenditure on new of return; on the extension or reconstruction of old on the extension or reconstruct ion of old
buildings, the value of work of a capital nature carried out by firms' own staff, and
the cost of any newly the cost of any newly constructed build ings purchased. The figures shown inc lude any
legal charges, stamp duties, agents cegais charges, st
commissions, etc.
otes - continued on pages iii and

This Report on the Wire and hire Manufactures Industry relates to establishments engaged wholly or mainly in manufacturing ferrous and non-ferrous wire and wire
products such as wire nails, wire netting, wire gauze, etc. Insulated electrica wire and wire mattresses are excluded.
This industry corresponds to minimum list heading 394 in the Standard Industrial
Classification (Consolidated edition, 1963).
There were no larger establishments in this industry in Northern Ireland in 1954.

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 classify ing returns to the sub-divisions of the industry shown in Table 2 ; returns made by wire drawers were classified to the sub-division Drawing of wire io sales of not exceed five per cent.; otherwise they were classified to the sub-division 'Drawing and working of wire'. Returns from establishments making wire products but not also drawing wire were classified to the sub-division 'Working of wire'.

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).

27.4.68

| $\begin{aligned} & \text { Table } \\ & \text { No. } \end{aligned}$ | Title | Page |
| :---: | :---: | :---: |
| 1 | Industry summary: United Kingdom. <br> Estimates for all firms, 1958 and 1963 | 71/3 |
| 2 | Analysis of larger firms by sub-divisions within the industry, 1958 and 1963 | /4 |
| 3 | Analysis of larger firms by size of enterprise within the industry, 1963 | /6 |
| 4 | Percentage analysis of employees, by age and sex, all firms, 1963: United Kingdom | / 7 |
| 5 | Sales of principal products of the industry by larger firms, including sales by establishments classified to other industries, 1958 and 1963 | 71/8 |
| 6 | Sales of principal products of the industry by establishments classified to other industries, 1958 and 1963 | 71/12 |
| 7 | Sales of other than principal products by larger firms in the industry, 1958 and 1963 | 71/14 |
| 8 | Production of certain principal products of the industry by larger firms, including production by establishments classified to other industries, 1958 and 1963 | $\begin{aligned} & \text { DOES } \\ & \text { NOT } \\ & \text { APPLY } \end{aligned}$ |
| 9 | Purchases of selected principal products of the industry by larger firms, 1963 | DOES NOT APPLY |
| 10 | Purchases by larger firms in the industry, 1954 and 1963 | 71/15 |
| 11 | Transport costs and employment of larger firms, 1963 | 71/17 |
| 12 | Payments for certain services, etc. by larger firms, 1963 | 71/17 |
| 13 | Percentage analysis of twelve-month periods covered by returns from larger firms, 1963 | 71/18 |
| 14 | Sales of all parts of machinery and plant by larger firms, including sales by establishments classified to other industries, 1958 and 1963 | $\begin{aligned} & \text { DOES } \\ & \text { NOT } \\ & \text { APPLY } \end{aligned}$ |

TABLE 1 Industry summary: United Kingdom

|  | Unit | 1958 | 1963 |
| :---: | :---: | :---: | :---: |
| Number of enterprises | No. | 463 | 415 |
| Number of establishments | * | 543 | 538 |
| Gross output | \& 000 | 168,746 | 199,566 |
| Net output | " | 42,665 | 59,371 |
| Net output per head | $\varepsilon$ | 1,087 | 1,401 |
|  | \&.000 | 160,967 | 188,674(b) |
| Sales and work done $\quad\left\{\begin{array}{l}\text { merchanted goods and canteen takings }\end{array}\right.$ | , | 7,860 | 10,198 |
| Purchases $\quad\left\{\begin{array}{l}\text { materials for processing and } \\ \text { packaging, and fuel }\end{array}\right.$ | * | 121,958 | 126,745 |
| goods for merchanting and canteen purchases | * | 121,058 | 9,497 |
| Payments to otherorganisations $\quad\left\{\begin{array}{l}\text { for work done on materials given } \\ \text { for transport }\end{array}\right.$ | - | 704 | 1,253 |
|  | " | 2,795 | 3.253 |
| Stocks and work in progress |  |  |  |
| Total stocks and work in \{ change during year | - | - 704 | + 1.247 |
| progress ${ }^{\text {at end of year }}$ | - | 20,537 | 27.623 |
| Goods on hand for sale $\quad\left\{\begin{array}{c}\text { change during year }\end{array}\right.$ | . | - 61 | + 476 |
| Goods on hand for sale $\quad$ at end of year | - | 5,465 | 7,709 |
| Work in progress $\quad\left\{\begin{array}{l}\text { change during year }\end{array}\right.$ | * | - 20 | + 218 |
| Work in progress $\{$ at end of year |  | 4.151 | 6,978 |
| Materials, stores and fuel $\{$ change during year | * | - 623 | + 553 |
| Materials, stores and fuel $\{$ at end of year |  | 10,921 | 12,937 |
| total, including working proprietors | Th. | 39.3 | 42.4 |
| Average number employed $\quad\left\{\begin{array}{l}\text { operatives }\end{array}\right.$ |  | 30.6 | 32.1 |
| other employees (c) |  | 8.6 | 9.8 |
| \{ of operatives | £ 000 | 17,649 | 23,520 |
| Wages and salaries $\quad\left\{\begin{array}{l}\text { of other employees (c) }\end{array}\right.$ | . | 6,471 | 9,015 |
| Employers' contributions to National Insurance and private pension schemes, etc. (d) | " | .. | 2,327 |
| Capital expenditure (e) |  |  |  |
| Total | * | .. | 5,934 |
| New building work | * | 1,357 | 1,329 |
| Land and existing buildings (f) | - | . | - 167 |
| Plant and machinery ( $f$ ) | * | 2,411 | 4,380 |
| Vehicles (f) | , | 312 | 391 |

(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 accounted
about 8 per cent. of the total figures in which they were incorporated. (For 1958 the comparable figure was 9 per cent.) A summary of the detailed returns received is given in
(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). (c) Administrative, technical and clerical employees.
(d) Including pensions and gratuities paid other than from pension funds
(e) Excluding expenditure for establishments not yet in production.
(f) Acquisitions less disposals.

TABLE 2 Analysis of larger firms by sub-divisions within the industry, 1958 and 1963

|  | Unit | Sub-divisions of the industry (b) |  |
| :---: | :---: | :---: | :---: |
|  |  | Drawing of wire |  |
|  |  | 1958 | 1963 |
| Number of enterprises (c) | No. | 51 | 45 |
| Number of establishments | * | 66 | 72 |
| Gross output | £ 000 | 77,948 | 86,397 |
| Net output | " | 15,604 | 22,428 |
| Net output per head | \& | 1,108 | 1,420 |
| $\left\{\begin{array}{l} \text { goods produced and work done } \\ \text { merchanted goods and canteen takings } \end{array}\right.$ | £'000 | 77,029 | 84,066 (d) |
|  |  | 1,304 | 2,196 |
| Sales of characteristic products | " | 68,825 | 72,925 |
| Index of specialisation (f) 。 | Per cent. <br> £ 000 | 89 | 87 |
| Purchases $\left\{\begin{array}{l}\text { materials for processing and } \\ \text { packaging, and fuel }\end{array}\right.$ |  | 61,065 | 60,413 |
| goods for merchanting and canteen purchases | £ 000 |  | 2,082 |
| Payments to other organisations $\{$ for work done on materials given out | " | 354 | 560 |
| (for transport |  | 976 | 1,132 |
| Stocks and work in progress |  |  |  |
| $\left\{\begin{array}{l} \text { change during year } \\ \text { at end of year } \end{array}\right.$ | " | - 310 | $+\quad 9$1,833 |
|  |  | 1,207 |  |
| change during year <br> at end of year | " | - 75 | $\begin{array}{r} 126 \\ 4,435 \end{array}$ |
|  |  | 2,469 |  |
| $\left\{\begin{array}{l} \text { change during year } \\ \text { at end of year } \end{array}\right.$ | " | + 53 | $\begin{array}{r} 218 \\ 5,209 \end{array}$ |
|  |  | 4,715 |  |
| Average number employed $\quad\left\{\begin{array}{l}\text { total, including working proprieto } \\ \text { operatives } \\ \text { other employees (g) }\end{array}\right.$ | No. | 14,071 | 15,795 |
|  | * | $\begin{array}{r} 11,583 \\ 2,488 \end{array}$ | 12,421 |
|  | " |  | 3,366 |
| of operatives <br> of other employees ( g ) | £'000 | 7,443 | 10,313 |
|  |  | 2,054 | 3, 162 |
| operatives <br> other employees ( g ) | \& | 643 | 830 |
|  |  | 825 | 939 |
| Employers' contributions to National Insurance (h) | £.000 | .. | 498 |
| Employers' contributions to private pension schemes, etc. (i)Capital expenditure ( j$)$ | " |  | 445 |
|  |  |  |  |
| New building work | " |  | 376 |
| nd and existing buildings $\int^{\text {acquisitions }}$ | " | 794 | 39 |
|  |  | . |  |
| Plant and machinery ${ }^{\text {acquisitions }}$ |  | 1,055 | 2,258 |
| \{ disposals |  | 65 | 35 |
| Vehicles $\{$ acquisitions | " | 131 | 21464 |
| 隹 ${ }^{\text {disposals }}$ |  | 42 |  |


| Sub-divisions of the industry (b) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Working of wire |  | Drawing and working of wire |  | Total |  |
| 1958 | 1963 | 1958 | 1963 | 1958 | 1963 |
| 94 | 86 | 18 | 29 | 155 | 138 |
| 127 | 123 | 32 | 47 | 225 | 242 |
| 44,175 | 50,855 | 31,538 | 46,508 | 153,660 | 183,759 |
| 14,490 | 16,978 | 8,757 | 15,263 | 38,851 | 54,668 |
| 1,012 | 1,330 | 1,189 | 1,481 | 1,087 | 1,401 |
| 39,520 | 45,094(d) | 30,027 | 44,570(d) | 146,576 | 173,729(d) |
| 4,511 | 5,433 | 1,342 | 1,762 | 7,157 | 8,391 |
| 36,028 | 42,581 | 28,037 | 42, 143 | (e) | (e) |
| 91 | 94 | 93 | 95 | 93 | 92 |
|  | 27,690 |  | 28,603 |  | 116,706 |
| $\int^{28,228}$ | 5,079 | 21,732 | 1,584 | 111,055 | 8,745 |
| 251 | 427 | 35 | 166 | 641 | 1,154 |
| 917 | 763 | 652 | 1,100 | 2,545 | 2,995 |
| + 78 | + 296 | + 177 | + 133 | - 55 | + 438 |
| 2,222 | 3,146 | 1,548 | 2,119 | 4,976 | 7,098 |
| + 66 | + 32 | - 8 | + 43 | - 18 | + 201 |
| 793 | 1,012 | 518 | 978 | 3,780 | 6,425 |
| - 289 | + 83 | 332 | + 209 | - 568 | + 509 |
| 3,347 | 3,725 | 1,882 | 2,978 | 9,945 | 11,912 |
| 14,305 | 12,769 | 7,365 | 10,450 | 35,741 | 39,014 |
| 10,478 | 9,724 | 5,849 | 7,685 | 27,910 | 29,830 |
| 3,817 | 3,010 | 1,516 | 2,761 | 7,821 | 9,137 |
| 5,240 | 6,034 | 3,431 | 5,536 | 16,114 | 21,882 |
| 2,661 | 2,735 | 1,194 | 2,490 | 5,908 | 8,387 |
| 500 | 620 | 587 | 720 | 577 | 734 |
| 697 | 909 | 788 | 902 | 755 | 918 |
| .. | 394 | .. | 292 | .. | 1,155 |
| .. | 267 |  | 298 |  | 1,010 |
| 263 | 390 | 178 | 457 | 1,236 | 1,223 |
|  | 104 |  | * |  | 126 |
| .. | 84 | .. | 156 | .. | 279 |
| 646 | 957 | 665 | 1,086 | 2,366 | 4,301 |
| 75 | 122 | 31 | 110 | 171 | 267 |
| 263 | 274 | 61 | 158 | 454 | 647 |
| 105 | 131 | 23 | 92 | 170 | 288 |

For notes to this table - see page 71/7

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) | $\begin{array}{\|l} \text { Enter- } \\ \text { prises } \end{array}$ | Estab-lishments | Average number $\underset{(a)}{\text { employed }}$ | Gross output | $\begin{gathered} \text { Net } \\ \text { Nutput } \end{gathered}$ | Net output per head | Capital ture (b) | Total value of stocks and work in progress at end of year |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Number | Number | £ 000 | \&'000 | \& | \& 000 | \&'000 |
| 25-49 | 36 | 37 | 1,318 | 5,081 | 1,654 | 1,255 | 76 | 441 |
| 50-99 | 38 | 42 | 2,818 | 8,807 | 3,453 | 1,225 | 472 | 1,189 |
| 100-199 | 26 | 28 | 3,555 | 13,972 | 4,411 | 1,241 | 380 | 2,136 |
| 200-399 | 16 | 28 | 4,461 | 21,867 | 6,317 | 1,416 | 413 | 2,816 |
| 400-499 | 4 | 9 | 1,732 | 10,517 | 2,357 | 1,361 | 152 | 1,403 |
| 500-749 | 5 | 18 | 3,323 | 15,009 | 4,870 | 1,466 | 393 | 2,425 |
| 750-999 | 4 | 17 | 3,774 | 18.577 | 4,900 | 1,298 | 899 | 2,231 |
| 1,000-1,499 | 5 | 24 | 5,893 | 24,307 | 9,847 | 1,671 | 983 | 4,070 |
| 2,000 and over | 4 | 39 | 12,140 | 65,622 | 16,860 | 1,389 | 1,697 | 8,723 |
| Total | 138 | 242 | 39,014 | 183,759 | 54,668 | 1,401 | 5,464 | 25,435 |

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

| Average number employed by the enterprise industry | Employees |  | Wages and salaries |  | Employers ${ }^{\circ}$ contributions |  | Wages and salaries per head |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Oper- } \\ & \text { atives } \end{aligned}$ | Others (c) | $\begin{aligned} & \text { Oper- } \\ & \text { atives } \end{aligned}$ | Others (c) | National Insurance <br> (d) | Private pension schemes, etc. (e) | $\begin{aligned} & \text { Oper- } \\ & \text { atives } \end{aligned}$ | Others (c) |
|  | Number | Number | £'000 | £ 000 | \& 000 | \&'000 | \& | $\varepsilon$ |
| 25-49 | 1,088 | 211 | 615 | 207 | 38 | 8 | 565 | 979 |
| 50-99 | 2,308 | 497 | 1,351 | 449 | 82 | 50 | 585 | 904 |
| 100-199 | 2,946 | 599 | 1,790 | 595 | 100 | 49 | 607 | 994 |
| 200-399 | 3,402 | 1,055 | 2,608 | 909 | 134 | 78 | 767 | 862 |
| 400-499 | 1,439 | 293 | 1,075 | 324 | 47 | 51 | 747 | 1,105 |
| 500-749 | 2,315 | 1,008 | 1,729 | 1,009 | 97 | 105 | 747 | 1,001 |
| 750-999 | 2,860 | 914 | 2,077 | 778 | 102 | 59 | 726 | 851 |
| 1,000-1,499 | 4,349 | 1,544 | 3,224 | 1,537 | 161 | 169 | 741 | 995 |
| 2,000 and over | 9,123 | 3.016 | 7,414 | 2,580 | 394 | 441 | 813 | 856 |
| Total | 29,830 | 9,137 | 21,882 | 8.387 | 1,155 | 1,010 | 734 | 918 |

(a) Including working proprietors.
(b) Acquisitions less disposals.
(c) Administrative, technical and clerical employees.
(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 amount in
(e) Including pensions
total to $\$ 176,000$

TABLE 4 Percentage analysis of employees, by age and
sex, all firms, 1963: United Kingdom (a)

| Ages | Males | Females | All employees |
| :--- | :---: | :---: | :---: |
| Under 18 | Per cent. | Per cent. | Per cent. |
|  | 4 | 3 | 7 |
|  | 72 | 21 | 93 |
|  | Source: Ministry of Labour |  |  |  |

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

## Oootnotes to Table 2.

(a) The following information relates to small firms (employing fewer than 25 persons) in this industry. It includes an
estimate for small firms not making satisfactory returns estimate for small firms not making satisfactory returns,
which account for 4 per cent. of the employment shown for which account for 4 per cent. of the employment shown for
1963 and 5 per cent. for 1958 .

|  | 1958 | 1963 |
| :---: | :---: | :---: |
| Number of firms | 307 | 287 |
| Average number employed: |  |  |
| Working proprietors Other persons employed | 3,14 | $\left\{\begin{array}{r} 438 \\ 2,520 \end{array}\right.$ |

(b) The method of classifying returns to sub-divisions of the
(c) The sum of the figures for the sub-divisions exceeds the The sum of the figures for the sub-divisions exceeds the
total for the industry to the extent that enterprises made returns for more than one sub-division.
(d) Including services rendered to other organisations (amounts charged for hiring out plant, machinery and other goods, for providin
rendered).
(e) Characteristic products relate only to sub-divisions of the industr
(f) For sub-divi f
f) For sub-divisions of the industry, this is the rat io of
sales of characteristic products to total sales of goods sales of characteristic products to total sales of goods
produced and work done. For the industry as a whole, th is the ratio of total sales of principal products by the industry to total sales of goods produced and work done
(g) Administrative, technical and clerical employees.
(h) Including both flat rate and graduated contributions.
i) Including pensions and gratuities paid other than from
pension funds.
(j) Excluding expe
production.
production.

TABLE 5 Sales of principal products of the industry by larger firms, includin sales by establishments classified to other industries, 1958 and 1963 Firms employing $\mathbf{2 5}$ or more persons: United Kingdom


TABLE 5 (cont inued)


TABLE 5 (continued)


(a) Not recorded separately
(b) So far as recorded separately.
(c) 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 more than one establishment.

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


TABLE 6 (continued)

(a) The references given are to the list of industries at the back of this report.

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

(a) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or
(a) Amounts charged for hiring out plant, machinery or other goods,
for technical or other services rendered to other organisations.
(b) Excluding amounts charged for services rendered to other organisations.

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

| 2009 (xatyous | 1954 |  | 1963 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Cost | Quantity | Cost |
|  | Th.tons | £ 000 | Th.tons | \& 000 |
| Materials for processingSteel |  |  |  |  |
|  |  |  |  |  |
| Ingots, blooms, billets, slabs, and sheet and tinplate bars | 55.8 | 2,049(a) | 27.0 | 1,419 |
| Bars and rods (excluding wire rods), angles, shapes and sections, girders, beams, joists and pillars rolled (not fabricated), including tube rounds and squares <br> Wire rods | 760 | 26,102(b) | 162 | 7.081 |
|  |  |  | 943 | 43,042 |
| Iron and steel not elsewhere specified except finished parts, wire and scrap | 12.2 | 453 | 40.9 | 1,742 |
| Light metals and non-ferrous metals in all forms except finished parts, wire and scrap |  |  |  |  |
| Copper (excluding blister) (c)Wire rods |  |  |  |  |
|  |  |  | 52.8 | 13, 292 |
| 0ther kinds | 63.3 | 16,853 | 10.0 | 2,408 |
| Brass and other copper alloys (including nickel silver and cupro-nickel, but excluding all other nickel alloys) |  |  |  |  |
| Wire rods | 10 | 2.040 | 5.2 | 1,264 |
| Other kinds |  |  | 7.6 | 1,686 |
| Nickel |  |  | 1.0 | 726 |
| Nickel alloys (excluding nickel silver and cupro-nickel) | 1.2 | 614 | 0.6 | 416 |
| Aluminium and aluminium alloys | . | (d) | 17.6 | 3,841 |
| Zinc and alloys of zinc | 23.6 | 1,863 | 22.7 | 1,847 |
| Wire |  |  |  |  |
| Steel (single wire) | 212 | 12,702 | 204 | 17.459 |
| Copper | 1.7 | 542 | 1.5 | 453 |
| Brass and other copper alloys (including nickel silver and cupro-nickel, but excluding all other nickel alloys) | 5.2 | 1,546 | 1.9 | 956 |
| Aluminium and aluminium alloys | 0.3 | 81 |  | 45 |
| Cores of jute and hemp for wire and cables |  | 401(e) |  | 804 |
|  |  |  | Th.gal. <br> 204 | 48 |
| Lubricating oils and greases (including cutting oils and emulsions) | .. |  | $\begin{gathered} \text { Th. cwt. } \\ 34.0 \end{gathered}$ | 131 59 |
| Replacement parts for firms' own machinery, plant and vehicles, and accessories and consumable tools bought as replacement | .. | 1,399 | .. | 2, 294 |
| All other materials for processing | .. | 6,859 | .. | 9, 105 |


(a) Excluding sheet and tinplate bars in 1954.
(b) 'Pillars rolled (not fabricated), including tube rounds and squares' were not included in 1954 (c) 'Blister' was not specifically excluded in 1954
(d) Owing to the risk of disclosure of information relating to individual firms separate particulars (e) So far as recorded separately.
(e) So far as recorded separately.
(f) Included in 'All other packaging materials'
(g) Description in 1954 included 'cores of jute, hemp etc
(h) The total quantity of electricity generated in firms' own, establishments in this industry was $2,913 \mathrm{Th} . \mathrm{kWh}$ in 1954 and $10,391 \mathrm{Th}$. kWh in 1963.

71/18 Wire and wire manufactures
TABLE 13 Percentage analysis of twelve-month periods covered by returns from larger firms, 1963
Firms employing 25 or more persons
United Kingdom

| 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) | 2.8 | November | 0.4 |
| Nay | 0.8 | December | 45.0 |
| June | 2.0 | 1964 |  |
| July | 4.4 |  | January |
| August | 3.3 | 0.2 |  |
| September | 22.3 | February | 0.0 |
| October | 1.5 | March | 17.3 |

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

TABLE 14 Sales of all parts of machinery and plant by larger $f$ ims, including sales by establishment

This table is not applicable to this industry.

Notes - continued from page ii

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

The items shown are the capital cost of 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
received for items disposed of during the year. The value of plant and machinery
yacquired includes plant, etc. Which firms 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 expenditure charged to capital account
during the year of return less any dis-
counts received, but including the cost of
transport and installation. No deduct ion transport and installation. No deduct ion
is made for depreciation, amortisat iot is made for depreciation, amortisation or
obsolescence. The proceeds of items disposed of during the year exclu
Capital expenditure during the year in respec
of manufacturing establ ishments where pro-
duction had not started before the end of the
year is excluded in this report for both 1958 year is ex
and 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 associa ted in production and are usually similar in
nature or manner of production. In most cases nature or manner of product ion. In most
the character ist ic product of each sub-
ivision are indicated in Table 5 of the division are indicated in Table 5 of the industry reports. For those industries for which an analys is by sub-divisions has bee
nade, Table 2 shows the total sales of suc made, Table 2 shows the total sales of such
characterist ic products for each sub-division
The totals include besides The totals include, besides the products which
def ine the sub-division, other items of outpu define the sub-division, other items of outpu
assumed 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 or control. An enterprise normally consists ither of a single firm, or of a parent company
ogether with its subsidiary companies.

Entries
The number of entries shown in Tables 5, 6 and against a particular output or production figures were recorded for that item.

Establishment
The census was based on the establishment remises remises under the same ownership or management
at a particular address (e.g. a factory or nine); but firms were asked to exclude f 11 sections of their returns particular relating to any department not engaged in pro-
duction for which they kept a separate set of accounts. Where separate accounts were not kept, they were asked to include merchanting or
factoring, canteens operated by them and other
ancillary activities such as bottling, packing nd the manufacture of containers for packing the ir own products, whether or not these
activities are carried on at the same address s the works. Building and engineering port departments were treated similarly.

## Goss Output

The gross output of an industry is the aggre gate value of goods made and other work done fied to the industry. It is derived by subtracting from the value of sales and work done
the value of stocks of goods on hand for sale
 year and adding the value at the end of the ear.
Larger Firms
these are firms in which twenty-five or more year
Net Output
The net output of an industry represents the It materials by the process of proerchanted or macludes the gross margin on any titutes the fund from which wages, salari stitutes the fund from which wages, sal
insurance, pensions, hire of plant and machinery, payments, for repairs and maintenance, costs of operating road vehicles, rents,
rates and taxes, advertising and other sellin rates and taxes, advertising and other selling
expenses and all other similar charges have to
be met as well as depreciation and be met, as well as depreciation and profits. There is no appreciable duplication in net out-
put. Net output has been obtained by deducting from the gross output the cost of purchases djusted for stock changes, payments for wor iven out to other firms, and payments for
Normally any customs or excise duty on materials. Similarly, finished goods sold have been valued as they were sold, duty paid o uty free. The amounts of duty, subsidies. llowances and levies receivable or payable, were required to be stated separately, and thes tems 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 and part-time) on all activities covered by the eturns, including operatives, administrat ive technical and clerical employees and w.
proprietors, but excluding outworkers.
Principal Products
The principal products of an industry are those in terms of which the industry is defined. They are products commonly associated in pro duction, and are usually similar in nature o
Production
This means the total quantity of a product made This means the total quantity of a product made
during the year, whether sold in the year, added during the year, whether sold in the year, added
to stock, transferred to another department of the same firm, or used in the manufacture of
other products within the business covered by the return. It includes goods produced from materials supplied by other firms. turnable cases and containers when first
purchased; of workshop materials, of fice purchased; of workshop materials, office
materials and materials for repairs to firms, materials and materials for repairs to irms
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 for return; of consumable tools; and of parts for
machinery purchased during the year as replacements. Water charges are also included. In
general purchases of goods for merchanting or general purchases of goods for merchant ing or
factor ing and canteen supplies are included. Materials supplied by customers for processing are excluded.
The values shown include any duty paiò (less The values shown include any duty paio (les
rebate, ett.) but exclude trade discounts
allowed. rebate. etc. The cost of transport is included
allowed. .
only if included in the cost of materials as only if included in the cost of materials as
invoiced amounts paid to transport organisa-
tions, including firms own separate transpor invoiced: amounts paid to transport organisa-
tions, including firms own separate transport
organisations. for del ivery of organisations, for delivery of materials and
fuel are, therefore, excluded. Materials fuel are, therefore, excluded. Materials
purchased overseas are included at their c.i. cost plus any duty payable if the cost of
transport from the docks was not included in the invoiced price, but at their full delivered cost invoiced price, but at their full delivered cost
if invoiced 'carriage paid home'. Materials and fuel transferred from another department of 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
busin by out workers or by other firms from
it
materials given out to them (somet fimes described
as goods made on cotmission) and waste products.
as goods made on comission) and waste products.
Any machinery or other capital items produced Any machinery 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 .
The value shown for sales is the nelling 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
basis, net of any trade discounts, bas is, net of any trade discounts, agents'
commissions, allowances for returnable cases commissions, allowances for returnable cases,
purchase tax, etc.; the net amount charged for purchase tax, etc. , the net amount charged for
packing materials is included. Goods charged
on a delivered basis to customers overseas are on a delivered basis to customers overseas are
inc luded at the f.ob. value. For work done o included at the fo.b. value. For work done
comission or for the trade the value shown is the net amount charged.
Where goods produced in one department were
transferred to another department of the same transferred to another department of the same
firm not covered by the return, these transfers were treated as sales by the producing department and valued as far as possible as if they
had been sold to an independent purchaser. Goods transferred to wholesale or retail sell-
ing organisations for which separate accounts ing organisations for which separate accounts were kept were valued on the same basis.
Estimations of a similar kind were also some times necessary in valuing transfers between
different firms belonging to different firms belonging to the same ent
prise. To the extent that the sales of prise. To the extent that the sales of
finished products of one establishment may constitute the materials purchased by another, total figures of the value of sales (and
materials and fuel purchased) include an materials and fuel pur
element of duplication
Services rendered
This represents the amounts charged for hirirg out plant, machinery and other goods, providing
transport, or for any technical or other
services rendered to other organisations. It includes amounts credited for similar services
rendered to other departments of the same firm not covered by the return
Small Firms
These are firms in which fewer than twenty-five persons were employed on the average during the Stocks and Work in Progress
Values are. given of stocks of goods on hand for sale, and of materials and fuel, at the be-
ginning and end of the year of return, including any stocks of goods held for merchant ing or factoring. The values include duty in the case
of dutiable goods held out of bond. The value of dut iable 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 received.
Transport Payments
These represent the total amount paid or
credited during the year for both outwards credsed
transport of $f$ inished goods sold and inwards transport of materials and fuel purchased.
They include payments to other firms, and to They include payments to other firms, and to
any separate transport organisation of the same any separate transport organisation of the same
firm, not covered by the return, but exclude
the value the value of transport services provided by the business covered by the return. The items
included are payments for hired cartage and for inwards and outwards carriage by all forms of
inland transport, i.e. railways, road haulage inland transport, i.e. railways, road haulage,
canals, coast-wise shipping, air, etc. Payments made for sea freight on goods sold to purchased from over seas suppliers are excluded. Wages and Salaries
These are the amounts paid during the year to operatives and to administrative, technical
and clerical employees. Payments to working proprietors, whether called salaries or not. are excluded; in Northern Ireland this exirectors of 1 imited companies. The values
dithent
shown include all overtime payments, bonuses shown include all overtime payments, bonuses
and commissions, whether paid regularly or and commissions, whether paid regularly or not
and no deduction is made for income tax, insurances, contributory pensions, etc. Th value of any payments in kind, travelling
expenses, lodging allowances, etc. and expenses, lodg ing allowances, etc. and
employers.
and and pension schemes is excluded.

## Work given out

The figures shown represent the total amount 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 were
establishments for which separate returns were establishments for which separate returns were
made. They do not include payments to individual outworkers or payments for business
and other services. and other services
Symbols used
The following symbols are used throughout the
report: .. Not available

Not available
Nil or negligible (less than half the final digit shown)
Figures cannot be shown owing to 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
the totals shown.
Part No, and title

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Part No. and citle

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Part No. and citle
l Introductory Notes
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2 Coal Mining
2 Coal Mining
4 Chalk, Clay. Sand and Gravel Extraction
4 Chalk, Clay. Sand and Gravel Extraction
5 Metalliferous Mining and Quarrying
5 Metalliferous Mining and Quarrying
Salt and Miscellaneous
Salt and Miscellaneous
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\& Grain Mill ling
9. Biscuits
9. Biscuits
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12 Sugar, Chocolate and Sugar Confectionery
12 Sugar, Chocolate and Sugar Confectionery
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21 Tobacco
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25 Dyestuffs
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28 Gharmaceutical Preparations
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\$1 Paint and Printing ink
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34 Synthet ic Resins and Plas
34 Synthet ic Resins and Plas
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43 Eng ineers', Small Tools and Gauges

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43 Eng ineers', Small Tools and Gauges
43 Engineers' Small Tools and Gauges
43 Engineers' Small Tools and Gauges
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46 Contractors' Plant and Quarryin
46 Contractors' Plant and Quarryin
47 Mechanical Hand
47 Mechanical Hand
48 office Machinery (N-lectrica1) Machinery
48 office Machinery (N-lectrica1) Machinery
49 Miscellaneous (Non-electrical)
49 Miscellaneous (Non-electrical)
51 Ordnance and Smal1 Arms
51 Ordnance and Smal1 Arms
52 General Mechanical Eng ineering
52 General Mechanical Eng ineering
Instruments, etc.
Instruments, etc.
54. Watches and Clocks
54. Watches and Clocks
55 Electrical Machinery

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55 Electrical Machinery

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58 Radio and Other Electronic Apparatus

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58 Radio and Other Electronic Apparatus
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62 Notor Vehicle Manufactur ing
62 Notor Vehicle Manufactur ing
63 Motor Cycle, Manuacturing
63 Motor Cycle, Manuacturing
64 Aircraft Manufacturing and Repairing
64 Aircraft Manufacturing and Repairing
64 Aircraft Manufactur ing and Repairing
64 Aircraft Manufactur ing and Repairing
5 Locomot ives and Railway Track Equipment
5 Locomot ives and Railway Track Equipment
67 Perambulators,Hand-tru
67 Perambulators,Hand-tru
2 Coal Mining
2 Coal Mining
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Milk Procucts
5. Animal and

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5. Animal and
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69 Cutlery Nuts, Screws, Rivets, et
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69 Cutlery Nuts, Screws, Rivets, et
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4 Miscel laneous Metal Manufactures
4 Miscel laneous Metal Manufactures
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5 Production of Man-made Fibres SM, Flax and
Man-made Fibres Linen and Man-made Fibres
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4 Narrow Fabrics
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5 Household Textiles and
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\$9 Miscellaneous Textile Industries
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94 Men's and Boys' Tailored Outerwear
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107 Miscell

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10 Bedding and Soft Furnishings

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10 Bedding and Soft Furnishings
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lin Shop and Office Fitting
lin Shop and Office Fitting
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lis Cardboard Boxes, Cartons and Fibre-board
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116 Miscell laneous Manufactures of Paper and Board
116 Miscell laneous Manufactures of Paper and Board
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120 Linoleum, Leathercloth, etc.
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33 Carpets
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