

## Report on the Census of Production 1963

LONDON: HER MAJESTY'S STATIONERY OFFICE

## Report on the Census of Production 1963

70 Bolts, nuts, screews, rivets, 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)

## Notes

These notes give the main information needed for
interpreting the figures in the industry reports. More detaijed informat ind (More detaiied informat ion 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 amendments to the Standard Industrial Classif icat ion and
to the the only minor changes in the scope of certain industry reports compared with 1958 . Any such
changes are explained in the introductions to changes 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 conformity with the basis of major act ivity in conformity with the second edition of the Standard Industrial
Classification (Consolidated Edition 1963, incorporating Amendment 1). Each industry was
basically defined in terms of its principal basically defined in terms of its principal
products, these being of a similar nature products, these being of a similar nature or
commonly associated in production. Normally, an estabishment was classified to an industry if its sales of the principal products of that
industry accounted for a greater proportion of industry accounted for a greater proport io
its total sales than did its sales of the principal products of any ot her industry. However, where the application of this rule would
have resulted in a change of classif ication between 1958 and 1963, the establishment was reclassif ied only if the sales of principal products of the newly predominant industry was
more than one third greater than the sales of more than one third greater than the sales of
principal products of the previously predominant industry. This mod if ication of the general rule was introduced for 1958 to avoid dis-
continuit ies which would result from marginal changes in sales between successive censuses. The principle of classification by major
output was also normally followed output was also normally followed in compiling
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-non-standard treatment are given in the int
ductions to the relevant industry reports.

TERMS USED IN THE CENSUS REPORT
Average number employed
Firms were required to state the number of persons on the payroll (i.e. whose Nat ional
Insurance cards were held by them) on the Insurance cards were held by them) on the
average during the year of return, whether full-
$t$ ime or part-time employees. Separate figures average during the year of return, whether full-
time or part-time employees.
Separate $f$ figures were required for (a) admin istrative, technical
and clerical employees and (b) operatives (see and clerical employees and (b) operatives (see
below). Averages could be calculated from figures relating to the last week of each calendar month; figures shown in respect of the average number employed relate to the sum of
these averages. Firms were also required to these averages. Firms were also required to
state the number of working propr ietors (see below) where appropriate and these are included
in total employment figures.
Outworkers are in total

The figures include persons engaged in where particulars in respect of these activities wherld not be excluded from the return.
Working Proprietors
These include all persons regarded as self-
employed' for National Insurance purposes, and nembers of their families who worked in the business without receiving a fixed wage or
salary; but persons who worked less than hal salary; but persons who worked less than half
the normal number of working hours are excluded. or 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 . head ing for 1963 , but are excluded for 195
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, experimental and works foremen; research, experimental,
development, technical and design employees deve lopment, technical and design employees
(other than operatives): draught smen and tracers; editorial staff, staff reporters, canvassers, competition and advertising
staff; travellers; and office (including taff; travellers; and office (including
orks off ice) employees. For Great Britain, but not for Northern Ireland, they
include also managing and other directors nclude also managing and other directors
n receipt of a definite wage, salary or in rece ipt
(ii) Operatives include all other classes of employees, that is, broadly speaking, all
manual wage earners. manual wage earners. They include tho
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 cleaners. Operatives engaged in outside work of erection, fitting, etc. ar also included, but outworkers (i.e.
persons employed by the firm who worked in their own homes, etc. on materials
supplied by the firm) are excluded.
Information about the numbers of outworkers employed was collected only for the gloves
industry. industry.
Capital Expenditure
i) New building work

This represents the cost incurred during the year of new building and other new onstructional work (including of fice buildings, canteens and the like used in
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 return: apital account during the year of return;
t includes expenditure on new buildings or 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 constructed buildings purchased. The figures shown include any egal charges, stamp duties, agents

Notes - continued on pages iii and iv

This Report on the Bolts, Nuts, Screws, Rivets, etc. Industry relates to establishments engaged wholly or mainly in manufacturing bolts, nuts, screws metal washers, rivets, split pins, cut nais, zinc nails, etc., but excluding

This industry corresponds to minimum list heading 393 in the Standard Industrial Classification (Consolidated edition, 1963).
There were no larger establishments in this industry in Northern Ireland in 1954, 1958 and 1963.

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).

| $\begin{aligned} & \text { Table } \\ & \text { No. } \end{aligned}$ | Title | Page |
| :---: | :---: | :---: |
| 1 | Industry summary: United Kingdom. Estimates for all firms, 1958 and 1963 | 70/3 |
| 2 | Summary of returns received from larger firms, 1958 and 1963 | 70/4 |
| 3 | Analysis of larger firms by size of enterprise within the industry, 1963 | 70/5 |
| 4 | Percentage analys is of employees, by age and sex, all firms, 1963: United Kingdom | 70/6 |
| 5 | Sales of principal products of the industry by larger firms, including sales by estabiishments classified to other industries, 1958 and 1963 | 70/7 |
| 6 | Sales of principal products of the industry by establishments classified to other industries, 1958 and 1963 | 70/10 |
| 7 | Sales of other than principal products by larger firms in the industry, 1958 and 1963 | 70/11 |
| 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 | $\begin{aligned} & \text { DOES } \\ & \text { NOT } \\ & \text { APPLY } \end{aligned}$ |
| 10 | Purchases by larger firms in the industry, 1954 and 1963 | 70/12 |
| 11 | Transport costs and employment of larger firms, 1963 | 70/13 |
| 12 | Payments for certain services, etc. by larger firms, 1963 | 70/14 |
| 13 | Percentage analysis of twelve-month periods covered by returns from larger firms, 1963 | 70/14 |
| 14 | Sales of all parts of machinery and plant by larger firms, including sales by establishments classified to other industries, 1958 and 1963 | $\begin{gathered} \text { DoEs } \\ \text { NOT } \\ \text { APPLY } \end{gathered}$ |

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

|  | Unit | 1958 | 1963 |
| :---: | :---: | :---: | :---: |
| Number of enterprises | No. | 654 | 367 |
| Number of establishments | " | 700 | 441 |
| Gross output | £.000 | 91,342 | 101,850 |
| Net output | * | 42,329 | 52,337 |
| Net output per head | $\varepsilon$ | 913 | 1,200 |
| Sales and work done $\quad\{$ goods produced and work done | £ 000 | 84,757 | 94,447(b) |
| derchanted goods and canteen takings | " | 5,343 | 7.252 |
| Purchases $\quad\left\{\begin{array}{l}\text { materials for processing and } \\ \text { packaging, and fuel }\end{array}\right.$ | " | 45,706 | 38,585 |
|  | " | 45,706 | 7,779 |
| Payments to other $\quad\left\{\begin{array}{l}\text { for work done on materials given out }\end{array}\right.$ | - | 1,345 | 1,995 |
| organisations for transport | " | 1,210 | 1,033 |
| Stocks and work in progress |  |  |  |
| Total stocks and work in $\quad$ change during year | " | + 491 | + 30 |
| progress $\quad$ at end of year | " | 22,202 | 26,605 |
| Goods on hand for sale $\quad\left\{\begin{array}{c}\text { change during year }\end{array}\right.$ | * | + 1,307 | - 223 |
| at end of year | - | 10,173 | 12,715 |
| Work in progress $\quad\left\{\begin{array}{l}\text { change during year }\end{array}\right.$ | * | - 65 | + 374 |
| ( at end of year | " | 3,338 | 4,497 |
| Materials, stores and fuel $\{$ change during year | " | - 751 | - 121 |
| -1 $\{$ at end of year |  | 8,691 | 9,393 |
| total, including working proprietors | Th. | 46.3 | 43.6 |
| Average number employed $\quad$ operatives | - | 37.8 | 34.8 |
| other employees (c) | * | 8.4 | 8.4 |
| Wages and salaries $\quad\{$ of operatives | \& 000 | 18,265 | 20,451 |
| Wages and sataries of other employees (c) | * | 6,145 | 7,339 |
| Employers' contributions to National Insurance and private pension schemes, etc. (d) | " | .. | 2,109 |
| Capital expenditure (e) |  |  |  |
| Total | " | . | 3,828 |
| New building work | * | 565 | 584 |
| Land and existing buildings (f) | " | . | - 405 |
| Plant and machinery (f) | " | 3, 101 | 3,429 |
| Vehicles (f) | . | 251 | 220 |

(a) For 1963, estimates for small firms and for firms not making satisfactory returns accounted for about 6 per cent. of the total figures in which they were incorporated. (For 1958 the
comparable figure was 10 per cent.) A summary of the detailed returns received is given i Table 2.
(b) Including services rendered to other organisation (ant
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 Summary of returns received from larger firms, 1958 and 1963 Firms employing 25 or more persons: United Kingdom (a)

|  | Unit | 1958 | 1963 |
| :---: | :---: | :---: | :---: |
| Number of enterprises | No. | 185 | 132 |
| Number of establishments | " | 227 | 195 |
| Gross output | £ 000 | 83,034 | 95,875 |
| Net output | " | 38,480 | 49, 266 |
| Net output per head | \& | 913 | 1,200 |
| Sate $\quad\{$ goods produced and work done | £ 000 | 77,048 | 88,907(b) |
| Sales and work done $\quad\left\{\begin{array}{l}\text { gerchanted goods and canteen takings }\end{array}\right.$ | " | 4,857 | 6,826 |
| Index of specialisation (c) | $\begin{aligned} & \text { Per } \\ & \text { cent. } \end{aligned}$ | 90 | 90 |
| Purchases $\quad\left\{\begin{array}{l}\text { materials for processing and } \\ \text { packaging, and fuel } \\ \text { goods for merchanting and canteen } \\ \text { purchases }\end{array}\right.$ | £'000 | 41,550 | 36,322 7,323 |
| Payments to other $\quad\left\{\begin{array}{l}\text { for work done on materials given out }\end{array}\right.$ | " | 1,223 |  |
| organisations $\quad$ for transport | * | 1,100 | 972 |
| Stocks and work in progress |  |  |  |
| Goods on hand for sale $\quad\left\{\begin{array}{l}\text { change during year }\end{array}\right.$ | " | + 1.188 | - 210 |
| Goods on hand for sale \{ at end of year | * | 9,248 | 11,969 |
|  | " | - 59 | + 352 |
| Work in progress $\quad\left\{\begin{array}{l}\text { at end of year }\end{array}\right.$ | " | 3,035 | 4,233 |
| Waterials, stores and fuel $\begin{aligned} & \left\{\begin{array}{l}\text { change during year } \\ \text { at end of year }\end{array}\right. \\ & \text { total, including working proprietors }\end{aligned}$ | " | - 682 | - 114 |
|  | - | 7,900 | 8,842 |
|  | No. | 42,131 | 41,049 |
| Average number employed $\left\{\begin{array}{l}\text { operatives } \\ \text { other employe }\end{array}\right.$ | " | 34,465 | 33,019 |
|  |  | 7,653 | 7,958 |
|  | £'000 | 16,649 | 19,387 |
| $\begin{array}{ll}\text { Wages and salaries } & \text { \{ } \\ \text { of other }\end{array}$ | " | 5,601 | 6,957 |
|  | \& | 483 | 587 |
|  | - | 732 | 874 |
| Employers' contributions to National Insurance (e) | £'000 | .. | 1,117 |
| Employers' contributions to private pension schemes, etc. (f) | * | .. | 882 |
| Capital expenditure ( g ) |  |  |  |
| New building work | * | 514 | 549 |
| \{acquisitions | " | . | 545 |
| Land and existing buildings $\left\{\begin{array}{l}\text { disposals }\end{array}\right.$ | n | .. | 926 |
| acquisitions | " | 2,869 | 3,460 |
| Plant and machinery $\quad\left\{\begin{array}{l}\text { disposals }\end{array}\right.$ | " | 50 | 233 |
| \{acquisitions | * | 347 | 324 |
| les $\quad\left\{\begin{array}{l}\text { disposals }\end{array}\right.$ | " | 119 | 117 |

For notes to this table - see page $70 / 6$

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) | $\begin{aligned} & \text { Enter- } \\ & \text { prises } \end{aligned}$ | $\underset{\substack{\text { Estab- } \\ \text { lish- }}}{\text { Cin }}$ ments | Average number employed (a) | Gross output | $\begin{gathered} \text { Net } \\ \text { output } \end{gathered}$ | Net output per head | $\underset{\text { Capital }}{\text { Cxpendi- }}$ ture (b) | Total <br> value of stocks and work in progress at end of year |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Number | Number | \& 000 | \& 000 | \& | \&'000 | $8 \cdot 000$ |
| 25-49 | 40 | 42 | 1,515 | 3,033 | 1,415 | 934 | 109 | 448 |
| 50-99 | 35 | 39 | 2,426 | 5,901 | 2,757 | 1,136 | 143 | 810 |
| 100-199 | 26 | 34 | 3,577 | 8,142 | 3,848 | 1,076 | 256 | 1,737 |
| 200-299 | 5 | 10 | 1,174 | 2,361 | 1,164 | 992 | 88 | 829 |
| 300-399 | 6 | 9 | 2,040 | 3,467 | 1,515 | 743 | 222 | 702 |
| 400 and over | 20 | 61 | 30,317 | 72,971 | 38,567 | 1,272 | 2,786 | 20,519 |
| Total | 132 | 195 | 41,049 | 95,875 | 49,266 | 1,200 | 3,603 | 25,044 |

(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- | $\begin{aligned} & \text { Others } \\ & \text { (c) } \end{aligned}$ | $\begin{aligned} & \text { Oper- } \\ & \text { atives } \end{aligned}$ | Others <br> (c) | National Insurance (d) | $\begin{aligned} & \text { Private } \\ & \text { pension } \\ & \text { schemes } \\ & \text { etc. (e) } \end{aligned}$ | $\begin{aligned} & \text { Oper- } \\ & \text { atives } \end{aligned}$ | $\begin{aligned} & \text { Others } \\ & \text { (c) } \end{aligned}$ |
|  | Number | Number | \& 000 | \& 000 | \& 000 | \& 000 | \& | $\varepsilon$ |
| 25-49 | 1,277 | 211 | 632 | 204 | 38 | 7 | 495 | 966 |
| 50-99 | 2,036 | 366 | 1,080 | 344 | 61 | 15 | 530 | 939 |
| 100-199 | 2,834 | 727 | 1,591 | 547 | 93 | 41 | 561 | 752 |
| 200-299 | 966 | 206 | 552 | 188 | 30 | 22 | 572 | 913 |
| 300-399 | 1,743 | 297 | 898 | 193 | 48 | 13 | 515 | 651 |
| 400 and over | 24,163 | 6,151 | 14,634 | 5,481 | 848 | 783 | 606 | 891 |
| Total | 33,019 | 7,958 | 19,387 | 6,957 | 1,117 | 882 | 587 | 874 |

(a) Including working proprietors
(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 $\& 167,000$.

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

| Ages | Males | Females | All employees |
| :---: | :---: | :---: | :---: |
| Under 18 <br> 18 and over | Per cent. | Per cent. | Per cent. |
|  | 4 | 2 | 6 |
|  | 63 | 35 | 94 |
|  | Source: Ministry of Labour |  |  |  |

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

Footnotes to Table 2
(a) The following information relates to small firms (employing fewer than 25 persons) in this industry. It includes a
estimate for small firms not making satisfactory returns estimate for small firms not making satisfactory returns which account for 7 per cent. of the employment shown for
1963 and 26 per cent. for 1958 .

$$
\begin{array}{lll} 
& 1958 & 1963 \\
\text { Number of firms } & 459 & 237
\end{array}
$$

Average persons employed
Working proprietors

$$
\} 3,745\left\{\begin{array}{r}
307 \\
1,836
\end{array}\right.
$$

(b) Including services rendered to other organisations (amounts charged for hiring out plant, machinery and other goods, fo charged for hiring out plant, machinery and other goods,
providing transport, or for technical or other services providing
rendered).
(c) This is the ratio of total sales of principal products by
the industry to total sales of goods produced and work done
(d) Administrative, technical and clerical employees.
(d) Administrative, technical and clerical employees.
(e) Including both flat rate and graduated contributions.
f) Including pensions and gratuities paid other than from
(g) Excluding ex
production.

TABLE 5 Sales of principal products of the industry by larger firms, including sales by establishments classified to other industries, 1958 and $1963{ }^{\circ}$ Firms employing 25 or more persons: United Kingdo



TABLE 5 (cont inued)

|  | 1958 |  | 1963 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Quantity | Value | Enter- prises | Entries |
|  | Th.tons | £'000 | Th.tons | \&'000 | Number | Number |
| Scrap metal sold |  |  |  |  |  |  |
| Iron and steel | 95.6 | 849 \{ | 81.9 | 726 34 | \} 108 | 143 |
| Brass | 5.7 | $\begin{array}{r} 698 \\ 77 \end{array}$ | 5.8 | 866 | 59 | 71 |
| Other scrap metals | 1.1 | $\begin{aligned} & 70 \\ & 21 \end{aligned}$ | 0.8 | 61 132 | \} 44 | 55 |
| Work done |  |  |  |  |  |  |
| General and jobbing work (including repair work) |  | 1,084 |  | 335 | 11 | 12 |
| Other work done, on commission, subcontract work, etc. |  | 755 |  | 19 | * | * |
| Total |  | 74,013 |  | 84,294 |  |  |
| Sales in other industries (see Table 6) |  | 4,295 |  | 3,748 | .. |  |
| Principal products of this industry sold by establishments in the industry |  | 69,719 |  | 80,546 | 132 | 170(b) |

(a) Included in 'Manufactures of iron and steel, not elsewhere specified' for 1958.
(b) This figure represents the total number of returns made by larger firms in this industry, which is less than the total number of est
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

|  | 1958 |  | 1963 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Quantity | Value | Entries | Principal industries in which |
|  | Th.tons | ع'000 | Th.tons | £'000 | Number |  |
| Iron and steel |  |  |  |  |  |  |
| Nails, tacks and rivets <br> (including tubular rivets and bifurcated rivets manufactured from wire) | 5.8 | $\left.\begin{array}{l}546 \\ 289\end{array}\right\}$ | $\left\{\begin{array}{l}1.9 \\ .\end{array}\right.$ | ${ }_{753}^{182}$ | \} 8 | 37, 52, 60, 74 |
| Boot and shoe grindery |  | 79 |  |  |  |  |
| Washers (other than washers assembled with bolts, etc.) | 1.1 | ${ }_{210}^{151}$ | \} | 380 | 14 | 37, 74 |
| Bolts, whether threaded or not, bolt ends, hexagon or square head set screws and screw studs, hexagon and square nuts, whether tapped or not, and washers assembled with any of these articles | $\left\{\begin{array}{l}7.4 \\ \cdots\end{array}\right.$ | $\left.\begin{array}{c} 710 \\ 313 \end{array}\right\}\{$ |  |  |  |  |
| Other set screws, screw studs and screws for metal (including self-tapping screws), nuts, and washers assembled with any of these articles |  |  | $\left\{\begin{array}{l}4.7 \\ .\end{array}\right.$ | $\begin{array}{r} 580 \\ 1.852 \end{array}$ | 26 | 37, 52, 62, 74 |
| Rivets, bolts and nuts of brass and other copper alloys; taper pins of all metals; and screw machine products of brass and other copper alloys not elsewhere specified |  | 1,997(b) |  |  |  |  |
| Total |  | 4,295 |  | 3,748 | . |  |

(a) The references given are to the list of industries at the back of this report. (b) Including aluminium rivets and an amount charged for general and jobbing work.

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

|  | 1958 |  | 1963 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Quantity | Value |
| Manufactures of iron and steel | Th.tons | \& 000 | Th.tons | £.000 |
| Nails, tacks and staples (including insulated staples) made from wire | 1.2 | 131(a) |  | 72 |
| Wire and other manufactures of wire |  | 168 |  | 472 |
| Railway spikes | 7.9 | 756 | 1.8 | 166 |
| Stampings and pressings | .. | 83 |  | 746 |
| Builders' ironmongery | .. | 125 |  | 161 |
| Tools and implements | .. | 519 |  |  |
| Steel forgings, other than drop forgings | .. | 603 |  | 1,078 |
| Other iron and steel manufactures, not elsewhere specified | 11.5 | $\left.\begin{array}{r}1,220 \\ 261\end{array}\right\}$ |  |  |
| Manufactures of non-ferrous metals, not elsewhere specified | . | 137 |  | 444 |
| Parts and accessories of motor vehicles and tractors | .. | 390(b) |  | 1,735 |
| Plant and machinery, including parts | .. | 1,570 |  | 907 |
| Metal smallwares |  | 554 |  | 2,396 |
| Other products | .. | 796 |  |  |
| Work done |  | 16 |  | - |
| Services rendered to other organisations (c) |  | .. |  | 255 |
| Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored) |  | 4,651 |  | 6.588 |
| Canteen takings |  | 206 |  | 239 |
| Total |  | 12,187(d) |  | 15,187 |

(a) Excluding insulated staples for 1958.
(b) Including parts for cycles.
(c) Amounts charged for hiring out plant, machinery or other goods, for providing transport,
(c) Amounts charged for hiring out plant, machinery or other goods, for
or for technical or other services rendered to other organisations.
(d) 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
industries, 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.

TABLE 10 Purchases by larger firms in the industry, 1954 and 1963

| Cost |  |  |
| :--- | ---: | ---: | ---: | ---: |


(a) 'Tube rounds and squares' were not included in 1954
(b) So far as recorded separately.
(c) Descr ibed in 1954 as 'Copper in all forms except finished parts and scrap
(d) The total quantity of electricity generated in firms' own establishments in this industry was $848 \mathrm{Th} . \mathrm{kWh}$ in 1954 and $606 \mathrm{Th} . \mathrm{kWh}$ in 1963.

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

|  | Unit | 1963 |
| :---: | :---: | :---: |
| Average number employed mainly on transport | No. | 418 |
| Transport costs |  |  |
| Wages and salaries | £'000 | 343 |
| Derv fuel and motor spirit | " | 126 |
| Payments to other organisations for transport | " | 972 |
| Costs of operating road goods vehicles |  |  |
| Insurance | " | 20 |
| Vehicle licences | " | 13 |
| Depreciation | " | 145 |
| Payments to other organisations for repairs and maintenance | " | 36 |
| Total | " | 1,656 |

TABLE 12 Payments for certain services, etc. by larger firms, 1963 (a)
Firms employing
United Kingdom or more persons:

|  | Amounts <br> payable |
| :--- | :---: |
| Repairs and maintenance to | $£^{\prime} 000$ |
| Buildings | 343 |
| Road goods vehicles | 36 |
| Plant, machinery, and other capital equipment | 618 |
| Insurance, licensing and depreciation of road | 179 |
| goods vehicles (b) | 179 |
| Rates, excluding water rates | 559 |
| Hire of plant and machinery | 155 |
| Postage, telephone, telegrams and cables | 310 |
| Total |  |

(a) No deduction is made for these payments to arrive at the (b) For details see Table 11.

TABLE 13 Percentage analysis of $t$ welve-month periods

Firms employing 25 or more persons:
United Kingdom

| Year ended | Percentage of total number employed | Year ended | Percentage of total number employed |
| :---: | :---: | :---: | :---: |
| 1963 | Per cent. | $\begin{gathered} 1963 \\ \text { (contd.) } \end{gathered}$ | Per cent. |
| April (a) | 0.6 | November | 0.8 |
| May | 0.3 | December | 69.4 |
| June | 4.3 |  |  |
| July | 5.4 | 1964 |  |
| August | 5.8 | J anuary | 0.3 |
| September | 5.6 | February | 0.5 |
| October | 0.7 | March | 6.3 |
|  |  | Total | 100 |

(a) Including returns made for twelve-month periods ended

1st to 5 th April, 1964

TABLE 14
Sales of all parts of machinery and plant by larger firms, including sales by establishments

This table is not applicable to this industry.

Wotes - continued from paye i

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

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

The items shown are the value of plant and machinery and of vehicles acquired, both new and second-hand, and the amount
received for items disposed of during the eceived for items disposed of during the
year. The value of plant and machinery ycquired includes plant, etc. which firms produced for the ir own use in connection
ith the business covered by the return ith 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 disexpeng the year of return less any dis-
during heceived, but including the cost
counts counts received, but including the cost of
transport and installation. No deduction is made for depreciation, amort isation or osolescence. The proceeds of items written off for items scrapped. Capital expenditure during the year in respec
of manufacturing establishments where proof manufacturing establishments where proyear 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 re those in terms of which the sub-division is defined. They are products commonly associa nature or manner of production. In most cases the character ist ic products of each subdivision are indicated in Table 5 of the
industry reports. For those industries for hich an analysis by sub-divisions has bee nade, Table 2 shows the total sales of such character ist ic products for each sub-division.
The totals include, besides the products which define the sub-division, other items of output assumed to be closely related to them, e.g.

Enterprise
The term enterprise is used in this report to nean 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
8 against a particular output or production 8 against a particular output or production figures were recorded for that item.

## Establishment

The census was based on the establishment,
comprising in most cases the whole of the comprising in most cases the whole of the at a particular address (e.g. a factory or
mine); but firms were asked to exclude f mine ) but firms were asked to exclude fro
all sections of their returns particulars relating to any department not engaged in production for which they kept a separate set o accounts. Where separate accounts were not
kept, they were asked to include merchanting or
ancillary activities such as bottling, packing and the manufacture of containers for packing
the ir own products, whether or not these the ir own products, whether or not these
act ivities are carried on at the same addres as the works. Building and engineering maintenance departments and seliling and trans-
port departments were treated similarly.

Gross Output
The gross output of an industry is the aggre gate value of goods made and other work done
during the year by the establishments classified to the industry. It is derived by sub-
tracting from the value of sales and work done the value of stocks of goods on hand for sale and work in progress at the beginning of the
year and adding the value at the end of the 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 pro-
duction. It includes the gross margin on any merchanted or factored goods sold; it constitutes the fund from which wages, salaries,
insurance, pensions, hire of plant and insurance, pensions, hire of plant and
machinery, payments for repairs and maint ance, costs of operating road vehicles, rents, rates and taxes, advertising and other selling
expenses and all other similar charges have to expenses and all as depreciation and profits. There is no appreciable duplication in net out-
put. Net output has been obtained by deductput. Net output has been obtained by deduct-
ing from the gross output the cost of purchases ing from the gross output the cost of purchases
adjusted for stock changes, payments for work given out to other firms, and payments for
Normally any customs or excise duty on
materials purchased is included in the cost of
materials. Similarly, finished tods materials. similarly, finished goods sold
have been valued as they were sold, duty paid or have been valued as they were sold, duty paid
duty free. The amounts of duty, subsidies. allowances and levies receivable or payable,
where of substantial importance in the where of substantial importance in the industry,
were required to be stated separately, and these 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-time
and part-time) on all activities covered by the and part-time) on all activities covered by the
returns, including operatives, administrative, returns, including operatives, administrative, proprietors, but excluding outworkers.
Principal Products
The principal products of an industry are those
in terms of which the industry is defined. in terms of which the industry is defined duction, and are usually similar in nature or manner of production.
Production
This means the total quantity of a product made during the year, whether sold in the year, added to stock, transferred the same firm, or used in the the same firm, or used the me manufactured by
other products with in the business covered the return. It includes goods produced from
materials supplied by other firms.

Purchases
Purchases include the cost of materials and
components bought for use in production; of compen
fuel and electricity for all purposes; of pack
aging materials, including the full cost of reaging materials, including the full cost of re
turnable cases and containers when first turnable cases and containers when first
purchased; of workshop materials, office purchased; of workshop materials, office
materials and materials for repairs to firms
Onn 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 machinery purchased during the year as replace-
ments. Water charges are also included. In ments. 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 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 organisa$t$ ions, including firms own separate transport
or ganisations. for delivery of materials and organisations, for delivery of materials and
fuel are, therefore, excluded. 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
invoiced price, but at their full delivered cost invoiced price, but at the ir 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
business covered by the return, goods made for it by outworkers or by other firms from
materials given out to them (sometimes describe materials 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 busines cover 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 be ing 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 selling The value shown or sales is the net selling
value, def ined as the amount charged to
customers whether customers whether on an ex-works or delivered
basis, net of any trade discounts, agents. basis, net of any trade discounts, agents ${ }^{\text {' }}$
commissions, allowances for returnable cases purchase tax, etc.: the net amount charged for
packing materials is included. Goods charged packing materials is included. Goods charged
on a delivered basis to customers overseas are on a delivered basis to customers overseas are
included at the foob. value. For work done or commission or for the trade the value shown is
the net amount charged. the net amount charged
Where goods produced
Where goods produced in one department were
transferred to another department of the same
firm 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. Goods transferred to wholesale or retali sel11-
ing organisations for which separate accounts ing organisations for which separate acco
were kept were valued on the same basis. Estimations of a similar kind were also some-
times necessary in valuing transfers between times necessary in valuing transfers between
different firms belonging to the same enterdifferent firms belonging to the same ent
prise. To the extent that the sales of
finished finished products of one establishment may
constitute the materials purchased by anothe constitute the materials purchased by another materials and fuel purchased) include an element of duplication.
Services rendered
This represents the amounts charged for hirirg
out plant, machinery and other goods, providing out plant, machinery and other goods, provid
transport, or for any technical or other
services rendered to other organisations. I
includes amounts credited for similar service endered to other departments of the same firm not covered by the return.
Small Firms
These are firms in which fexer than twenty-five
persons were employed on the average during the
year. Stocks and Work in Progress
Values are given of stocks of goods on hand for ginning and end of the year of return, including ny stocks of goods held for merchant ing or factoring. The values include duty in the case of dutiable goods held out of bond. The valu
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 paymen duction is made on account of progress payments

## Transport Payments

These represent the total amount paid or
redited during the year for both outwards ransport of finished goods sold and inwards transport of materials and fuel purchased.
They include payments to other firms and any separate transport organisation of the sal 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 for
ind
inwards and inwards and outwards carriage by all forms of land transport, i.e. railways, road haulage 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
operatives and to administrative, operatives and to administrative, technical
and clerical employees. Payments to working proprietors, whe ther called salaries or not.
are excluded; in Northern Ireland this exclusion extends also to payments to
directors of limited companies. The values
shown include ill shown include all overtime payments, bonuses and comnissions, whether paid regularly or not
and no deduction is made for income tax, insurances, contributory pensions, etc. The value of any payments in kind, travelling
expenses, lodging allowances, etc. and employers' contributions to National Insurance and 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 and supplied to them, and also by firms' own
establishments for which separate returns were made. They do not include payments to were individual outworkers or payments for business
and other services. and other servi
Symbols used
The following symbols are used throughout the .. Noport: Nat 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, may, therefore, be apparent slight discrepancies bet ween the sums of the constituent items and
the totals shown.

```
69 Cutlery
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69 Cutlery
0 Bolts, Nuts, Screws, Rivets, etc
0 Bolts, Nuts, Screws, Rivets, etc
1 Wire and wire Manufactures
1 Wire and wire Manufactures
2 Cans and Metal Boxes R
2 Cans and Metal Boxes R
4 Miscellaneous Metal Manufactures
4 Miscellaneous Metal Manufactures
lol
lol
M Man-made Fibres, Linen and Man-made Fibres
M Man-made Fibres, Linen and Man-made Fibres
Jute Nine and Net
Jute Nine and Net
82 Lace
82 Lace
\$3 Carpets
\$3 Carpets
84 Narrow Fabrics
84 Narrow Fabrics
l
l
\$0
\$0
l
l
Melimongery
Melimongery
92 Fur
92 Fur
\$ (%)
\$ (%)
94 Men's and boys' Tailored Outerwear
94 Men's and boys' Tailored Outerwear
lol
lol
l
l
9 Corsets and Miscellaneous Dress Industries
9 Corsets and Miscellaneous Dress Industries
3 Bricks, Fireclay and Refractory Goods
3 Bricks, Fireclay and Refractory Goods
103 Pot tery
103 Pot tery
O4 Glass
O4 Glass
Cement
Cement
09 Furniture and Upholstery
09 Furniture and Upholstery
lol
lol
lol
lol
14 Paper and Board O
14 Paper and Board O
Cardboard Boxes, Cartons and Fibre-board
Cardboard Boxes, Cartons and Fibre-board
6 Miscel laneous Manufactures of Paper and Board
6 Miscel laneous Manufactures of Paper and Board
17 Printing and Publishing of Newspapers and
17 Printing and Publishing of Newspapers and
Periodicals ( Pring, Publishing, Bookbindin
Periodicals ( Pring, Publishing, Bookbindin
General Printing
General Printing
Rubber
Rubber
120 Linoleum, Leathercloth, etc
120 Linoleum, Leathercloth, etc
121 Brushes and Brooms
121 Brushes and Brooms
lol
lol
124 Plastics Moulding and Fabricating
124 Plastics Moulding and Fabricating
l25 Miscellaneous
l25 Miscellaneous
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