

BOARD OF TRADE

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## Report on the Census of Production 1963

51 Ordnance and small arms

## Report on the Census of Production 1963

## 51 Oridance and smal a ams

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. interpreting the figures in the industry rep
(More detailed information about the Census More detailed informat ion about the Census
is given in a separate booklet - Introductor Notes : Part 11 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 Classification an only minor changes in the scope of certain
industry reports compared with 1958 . Any changes are explained in the introduct Ans to the industry reports concerned or by footnotes o the tables.
Industrial Classification
Establishments were classified to industries on the basis of major activity in conformity wit
the second edition of the Standard Industrial Classification (Consolidated Edition 1963, incorporat ing Amendment 1). Each industry was
basically defined in terms of its principal basically defined in terms of its principa
products, these being of a similar nature
 an establishment was classified to an industry
if its sales of the principal products of that if its sales of the principal products of tha
industry accounted for a greater proportion of its total sales than did its sales of the 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 establ ishment was
reclassified only if the sales of principal reclassified 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 predominan principal products of the previously predominant
industry. This modification of the general ndustry. This modification of the general
ule was introduced for 1958 to avoid disrule was introduced for 1958 to avoid dis-
cont inuit ies which would result from marginal Changes in sales between successive censuses.
The principle of classification by major output was also normally followed in compiling
the analysis by sub-divisions of an industry he analys is 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 in
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 National Insurance cards were held by them) on the avage 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 (se elow). Averages could be calculated from
igures relating to the last week of each figures relating to the last week of each
calendar month; figures shown in respect of the verage number employed relate to the sum of hese 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 excluded

The figures include persons engaged in where particulars in respect of these activities could not be excluded from the return.
Working Proprietors
These include all persons regarded as 'selfemployed' for Nat ional Insurance purposes, and usiness without receiving a fixed wage or business without receiving a fixed wage or
salary; but persons who worked less than hal the normal number of working hours are excluded.
For Great Britain, directors For Great Britain, directors working in the susiness 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 pai y fee only are not included in arectors mployment figures for either year.)
Employees
i) Administrative, technical and clerical employees include managers, superintendents
and works foremen; research, experimental deve lopment, technical and design employees other than operatives); draughtsmen and
racers; editorial staff, staff reporters, anvassers, competition and advertising canvassers, competstion and advertising orks off ice) employees. For Great
ritain, but not for Nor thern Ireland, Britain, but not for Nor thern Ireland, they
include also managing and other directors nclude also managing and other directors
n receipt of a definite wage, salary or
commission.
(ii) Opertives include all other classes of employees, that is, broadhy speaking, all
anual wage earners. They include those amployed in and about the factory or orks; operatives employed in powe houses, transport work, stores, warehouses, shops and canteens; inspectors, viewers and similar workers; maintenance workers;
and cleaners. $\quad$ Operatives engaged in outand cleaners. Operatives engaged in out-
ide work of erection, fitting, etc. are lso included, but outworkers (i.e. ersons employed by the firm who worked in heir own homes, etc. on materials
upplied by the firm) are excluded nformation about the numbers of outworkers
employed was collected only for the gloves 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
buildings, canteens and the like used buildings, canteens and the like used in
connection with the business covered by the onnection with the business covered by the
eturn 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 reconstruction of old buildings, the value of work of a capital
nature carried out by firms' own staff, and ature carried out by firms own staff, and purchased. The figures shown include any egal charges, stamp duties, agent
ommissions, etc

This Report on the Ordnance and Small arms Industry relates to establishments engaged wholly or mainly in manufacturing guns, machine guns, mortars, rifles, istols, revolvers, torpedoes, shell cases and components, bomb cases and tracked components, sporting guns, air rifles, etc.; swords, bayonets, etc.; and
armoured fighting vehicles. Armoured cars and troop carriers are excluded

This industry corresponds to minimum list heading 342 in the Standard Industrial Classification (Consolidated edition, 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).

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| 7 | Sales of other than principal products by larger firms in the industry, 1958 and 1963 | 51/10 |
| 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 | $\begin{aligned} & \text { DoEs } \\ & \text { NOT } \\ & \text { APPLY } \end{aligned}$ |
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| 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

(a) For 1963 , estimates for small firms and for firms not making satisfactory returns accounted for
about 1 per cent. of the total figures in which they were incorporated. (For 1958 the
ene about 1 per cent. of the total figures in which they were incorporated. (For 1958 the
comparable figure was 2 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 transport
(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 Firms employing 25 or more persons: United Kingdom (a)

|  | Unit | Sub-divisions of the industry (b) |  |  |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { Ordnance } \\ & 01 \end{aligned}$ |  | ${ }_{\text {Small }}^{02} \mathrm{arms}$ |  |  |  |
|  |  | 1958 | 1963 | 1958 | 1963 | 1958 | 1963 |
| Number of enterprises (c) | No. | 33 | 23 | 11 | 11 | 42 | 33 |
| Number of establishments |  | 57 | 33 | 18 | 13 | 75 | 46 |
| Gross output | £ 000 | 54,553 | 47,432 | 8,440 | 6,319 | 62,994 | 53,751 |
| Net output |  | 31,504 | 28,933 | 5,115 | 4,008 | 36,619 | 32,941 |
| Net output per head | \& | 906 | 1,121 | 878 | 1,077 | 902 | 1,116 |
| Sales and $\left\{\begin{array}{l}\text { goods produced and work } \\ \text { gone }\end{array}\right.$ | £ 000 | 55,657 | 44,407 | 8,005 | 5,488 | 63,662 | 49,895(d) |
| work done $\quad\left\{\begin{array}{l}\text { merchanted goods and } \\ \text { canteen takings }\end{array}\right.$ | " | 333 | 906 | 444 | 366 | 777 | 1,272 |
| Sales of characteristic products |  | 31, 153 | 28,468 | 5,755 | 4,157 | (e) | (e) |
| Index of specialisation (f) | $\begin{gathered} \text { Per } \\ \text { cent. } \end{gathered}$ | 56 | 64 | 72 | 76 | 65 | 66 |
| $\text { Purchases } \quad\left\{\begin{array}{l} \text { materials for processing } \\ \text { and packaging, and fuel } \end{array}\right.$ | £ 000 | 20,676 | 15,694 | 2,870 | 1,797 | 23,546 | 17,492 |
| goods for merchanting and canteen purchases | " |  | 811 |  | 345 |  | 1,156 |
| Payments $\quad\left\{\begin{array}{l}\text { for work done on } \\ \text { materials given out }\end{array}\right.$ | n | 1,201 | 1,355 | 413 | 47 | 1,613 | 1,402 |
| organisations for transport | " | 220 | 88 | 49 | 17 | 269 | 105 |
| Stocks and work in progress |  |  |  |  |  |  |  |
| Goods on (change during year | " | + 358 | - 112 | + 81 | - 1 | + 439 | - 113 |
| hand for sale | " | 1,452 | 648 | 305 | 331 | 1,757 | 979 |
| ork in change during year | " | - 1,795 | + 2, 231 | - 90 | + 465 | - 1,884 | + 2,697 |
| progress $\{$ at end of year | " | 23,241 | 18,237 | 2,678 | 1,951 | 25,919 | 20,188 |
| Materials, (change during year | " | - 953 | - 551 | + | - 104 | - 946 | - 655 |
| stores and fuel | " | 7,370 | 5,695 | 1,260 | 512 | 8,630 | 6,207 |
| $\left(\begin{array}{l} \text { total, including working } \\ \text { proprietors } \end{array}\right.$ | No. | 34,767 | 25,807 | 5,825 | 3,721 | 40,592 | 29,528 |
| Average number $\quad\{$ operatives | " | 26,734 | 18,954 | 4,889 | 2,906 | 31,623 | 21,860 |
| employed other employees ( g ) | " | 8,032 | 6,845 | 936 | 815 | 8.968 | 7,660 |
| Wases and fof operatives | £ 000 | 15,657 | 13,868 | 2,928 | 2.107 | 18,585 | 15,975 |
| Wages and salaries $\quad\left\{\begin{array}{l}\text { of other employees ( } \mathrm{g}\end{array}\right.$ | " | 6, 190 | 6,386 | 741 | 772 | 6,931 | 7, 158 |
| Wages and operatives | \& | 586 | 732 | 599 | 725 | 588 | 731 |
| salaries per head $\quad\left\{\begin{array}{l}\text { other employees (g) }\end{array}\right.$ | " | 771 | 933 | 792 | 947 | 773 | 934 |
| Employers' contributions to National Insurance (h) | \& 000 | .. | 734 | .. | 105 |  | 839 |
| Employers' contributions to private pension schemes, etc. (i) |  | . | 1,224 |  | 156 |  | 1,380 |
| Capital expenditure ( j ) |  |  |  |  |  |  |  |
| New building work | " | 554 | 181 | 145 | 6 | 698 | 187 |
| Land and existing buildings ( $k$ ) | " |  | * |  | * |  | + 493 |
| plant and acquisitions | " | 4, 186 |  | 825 |  | 5,011 | 2,161 |
| Plant and <br> machinery $\left\{\begin{array}{l}\text { acquisitions } \\ \text { disposals }\end{array}\right.$ | " | 3,515 | $\}+1,817$ | 77 | \}-164 | 3,592 | 508 |
| ¢ acquisitions | " | 90 | 70 | 12 | 9 | 102 | 80 |
| Vehicles $\left\{\begin{array}{l}\text { disposals }\end{array}\right.$ |  | 27 | 21 | 2 | 6 | 29 | 27 |

For notes to this table - see page $51 / 6$

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 the enterp industry (a | Enter- <br> prises | $\underset{\substack{\text { Estab- } \\ \text { lish- }}}{ }$ ments | Average number employed (a) | Gross output | Net output | Net output per head | Capital ture (b) | $\begin{aligned} & \text { Total } \\ & \text { value of } \\ & \text { stocks and } \\ & \text { mork in } \\ & \text { progress at } \\ & \text { end of year } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Number | Number | £ 000 | £ 000 | \& | \& 000 | \& 000 |
| 25-99 | 10 | 12 | 635 | 1,286 | 739 | 1,183 | 43 | 543 |
| 100-199 | 4 | 5 | 598 | 1,106 | 669 | 1,118 | 11 | 370 |
| 200-299 | 6 | 8 | 1,540 | 3,744 | 1,766 | 1,147 | 72 | 3.016 |
| 300-499 | 5 | 5 | 2,049 | 3,157 | 1,876 | 916 | - 46 | 945 |
| 500 and over | 8 | 16 | 24,706 | 44,458 | 27,891 | 1,129 | 2,307 | 22,501 |
| Total | 33 | 46 | 29,528 | 53,751 | 32,941 | 1,116 | 2,388 | 27,374 |

(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 ${ }^{\prime}$ contributions |  | Wages and salaries per head |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Oper- } \\ & \text { atives } \end{aligned}$ | Others <br> (c) | $\begin{aligned} & \text { Oper- } \\ & \text { atives } \end{aligned}$ | Others <br> (c) | National Insurance <br> (d) | $\begin{aligned} & \text { Private } \\ & \text { pension } \\ & \text { schemes } \\ & \text { etc. (e) } \end{aligned}$ | Oper - | Others (c) |
|  | Number | Number | \& 000 | \& 000 | \& 000 | \& 000 | $\varepsilon$ | $\varepsilon$ |
| 25-99 | 476 | 153 | 315 | 169 | 19 | 10 | 661 | 1,106 |
| 100-199 | 406 | 190 | 258 | 176 | 16 | 8 | 636 | 926 |
| 200-299 | 1,151 | 389 | 749 | 326 | 45 | 15 | 650 | 837 |
| 300-499 | 1,598 | 451 | 1,086 | 397 | 56 | 64 | 680 | 881 |
| 500 and over | 18,229 | 6,477 | 13,567 | 6,090 | 704 | 1,283 | 744 | 940 |
| Total | 21,860 | 7,660 | 15,975 | 7,158 | 839 | 1,380 | 731 | 934 |

(a) Including working proprietors.
(b) Acquisitions less disposals.
c) Administrative, technical and clerical employees.
(d) Including both flat rate and graduated contributions
(d) Including both flat rate and gracuated contributions.
(e) Including pensions and gratuities paid other than from pension funds. These amounted in
total to $£ 24,000$.
$\begin{array}{ll}\text { TABLE } 4 & \begin{array}{l}\text { Percentage analysis of employees, by age and } \\ \text { sex, all firms, 1963: United Kingdom (a) }\end{array}\end{array}$

|  | Ages | Males | Females |
| :---: | :---: | :---: | :---: |
| All employees <br> Under 18 <br> 18 and over | Per cent. | Per cent. | Per cent. |
|  | 76 | 1 | 4 |
|  | 79 | 20 | 96 |

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

## Footnotes to Table 2.

(a) The following information relates to small firms (employin fewer than 25 persons) in this industry. It includes an estimate for small firms not making satisfactory returns,
which account for 2 per cent. of the employment shown for which account for 2 per cent. of
1963 and 48 per cent. for 1958 .

$$
1958 \quad 1963
$$

Number of firms Average number employed
Working proprietors
Other persons employ $484\left\{\begin{array}{r}39 \\ 207\end{array}\right.$
returns to sub-divisions of the The method of classifing returns inco at the begining of this report; the
industry is explaned
characteristic products of each sub-division are identified industry is explained and
characteristic products of each sub-division are identifie
in Table 5 .
(c) The sum of the figures for the sub-divisions exceeds the total for the industry to the extent th
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 providing transport, or for technical or other services
(e) Character
industry sales of characteristic products to total sales of goods produced and work done. For the industry as a whole, this produced and work done. For the incipal products by the
is the ratio of total sales of principal
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 expenditure for establishments not yet in
production.
(k) Acquisitions less disposals

TABLE 5 Sales of principal products of the industry by larger firms, including Sy establis prots clasisied to other

Firms employing 25 or more persons: United Kingdom


(a) The number given is that of the sub-division of which the item is a characteristic product. The
sales shown are total sales by larger firms, not merely sales by establishments classified to the sales shown ate
sub-division.
(b) Including re-conditioned fighting vehicles and component parts for 1958.
(c) This figure represents the total number of returns made by larger firms in this industry, which is ess than the total number of establishments in Table 2 on account of combined returns covering nore 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 |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Value | Value | Entries | Principal industries in which produced (a) |
| Sporting guns, rifles and carbines, empty cartridge cases for small arms ammunition and parts and accessories of small arms | $£$ <br> 000 <br> 440 | £ 000 | Number |  |
| Mortars, automatic machine and quick firing guns (up to 20 mm .); revolvers, pistols and other guns, rifles and carbines, swords, cutlasses, bayonets and arms of other sorts (not firearms) | - |  | 12 | 30,40,42,69 |
| Guns and howitzers and parts thereof Gun mountings, carriages and platforms and parts thereof | 2,340 |  |  |  |
| Armoured fighting vehicles (including tracked vehicles), chassis and parts thereof, excluding armoured cars and troop carriers | 1,157 | 4,430 | 29 | 42,46,61,62 |
| Artillery ammunition and parts thereof | - | 730 | 9 | 30,40, 52,74 |
| Torpedoes, mines and aircraft bombs and parts thereof | 566 | 769 | * | 49,50,64,74 |
| Other naval, military and air force stores | 7,672 | 4,973 | 53 | 30,49,61,74 |
| Total | 12,173 | 11,559 | .. |  |

(a) The references given are to the 1 ist 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

|  | 1958 | 1963 |
| :---: | :---: | :---: |
|  | Value | Value |
|  | £ 000 | \&'000 |
| Live ammunition not exceeding 30 mm . calibre; sporting | (a) | 41 |
| Metal-working machine tools | (a) | 1,713 |
| Engineers' small tools and gauges | 872 | 660 |
| Industrial plant and steelwork | (a) | 758 |
| other general mechanical engineering | 4,934 | 1,909 |
| Electrical engineering products | 63 | 474 |
| Other products | 6,039 | 4,305 |
| Electricity sold | - | 35 |
| Steam sold | - | 226 |
| Repair and jobbing work | 1,251 | 1,841 |
| Other work done | 9,031 | 4,302 |
| Services rendered to other organisations (b) | - | 523 |
| Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored) | 674 | 1,133 |
| Canteen takings | 103 | 139 |
| Total | 22,904(c) | 18,058 |

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

TABLE 8 Product ion of certain principal products of the industry by larger firms, including production by establ ishments 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

| Firms employing 25 or more persons: | United Kingdom |
| :--- | :--- | :--- | :--- | :--- | :--- |

TABLE 10 (continued)

|  | 1954 |  | 1963 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Cost | Quantity | Cost |
| Materials for processing (continued) |  | \& 000 |  | £ 000 |
| Machinery bought for installation | . | (f) | .. | 148 |
| Purchased components for incorporation in firms' own products |  |  |  |  |
| Ball and roller bearings and parts thereof | .. | 213 | .. | 101 |
| Electric motors | .. | 193 | .. | 188 |
| Industrial valves | .. | 13 | .. | 54 |
| Gear and gear wheels of metal | .. | 83 | .. | 86 |
| Pumps | .. | 61 | .. | 71 |
| Measuring instruments and gauges and parts |  |  |  |  |
| Industrial process measuring and control instruments and equipment |  | 249 |  | 267 |
| Other |  |  | . | 103 |
| Plastic goods moulded and fabricated |  | 55 | . | 28 |
| 0 ther components not elsewhere specified except those of rubber and asbestos ( h ) |  | 7,757 | .. | 2,607 |
|  | Th.gal. |  | Th.gal. |  |
| Lubricating oils and greases (including cutting oils and emulsions) | 539 | 115 38 | 340 | 73 11 |
| Replacement parts for firms' own machinery, plant and vehicles, and accessories and consumable tools bought as replacement | .. | 1,931 |  | 1,215 |
| All other materials for processing |  | 7,694 |  | 2,540 |
| Packaging materials |  |  |  |  |
| Paper and board |  |  |  |  |
| Boxes, cartons, packing cases, and drums and canisters (with or without metal ends) of paper, cardboard and fibreboard |  |  |  | 59 |
| Wrapping paper (including paper coated with plastics and any laminates incorporating paper but not metal), moulded pulp units, labels and other packaging materials of paper, cardboard and fibreboard (except multiwall sacks) |  | 76 |  | 17 |
| Timber |  |  |  |  |
| Containers wholly or mainly of wood, including plywood boxes and drums, baskets and wickerwork crates |  |  |  |  |
| Timber (sawn or planed) for manufacture into packing cases, etc. |  | 166 | .. | 95 |
| Plywood for manufacture into packing cases |  |  |  |  |
| All other packaging materials |  | 43 | .. | 29 |
| Fuel and electricity (i) | Th.tons |  | Th.tons | mi |
| Coal | 248 | 986 | 173 | 869 |
| Coke (including screenings) and manufactured fuel | 15.6 | $\begin{aligned} & 99 \\ & 13 \end{aligned}$ | 3.3 | 36 |
|  | Th.gal. |  | Th.gal. |  |
| Derv fuel and motor spirit for use in road vehicles |  | 151 22 | 304 | 61 |
| Other liquid fuels (including creosote/pitch mixtures, etc., and liquefied petroleum gases) | 3,196 | 207 | 4,729 | 224 |

TABLE 10 (cont inued)

(a) Described in 1954 as 'Pig iron, except refined pig iron'
(b) 'Pillars rolled (not fabricated), including tube rounds and squares' not included in 1954.
(c) Described in 1954 as 'Drop forgings of iron and steel'.
(d) Described as covering 'Iron and steel' in 1954.
(e) 'Blister' was not specifically excluded in 1954.
(f) Not separately recorded.
(g) 'Strips and strands' were not included in 1954
(h) Components of rubber and asbestos were not excluded in 1954.
(i) The total quantity of electricity generated in firms' own establishments in this industry in 1963 was 25,152 thousand kwh. Owing to the risk of disclosure of information relating to
individual firms the quantity for 1954 cannot be given. Firms employing 25 or more persons: United Kingdom

|  | Unit | 1963 |
| :---: | :---: | :---: |
| Average number employed mainly on transport | No. | 200 |
| Transport costs |  |  |
| Wages and salaries | £.000 | 141 |
| Derv fuel and motor spirit | " | 61 |
| Payments to other organisations for transport | " | 105 |
| Costs of operating road goods vehicles |  |  |
| Insurance | * | 3 |
| Vehicle licences | " | 4 |
| Depreciation | " | 31 |
| Payments to other organisations for repairs and maintenance | " | 17 |
| Total | " | 363 |

TABLE 12 Payments for certain services, etc. by larger firms, 1963 (a)
Firms employing 25 or more persons:
United Kingdom

|  | Amounts <br> payable |
| :--- | :---: |
| Repairs and maintenance to | $\varepsilon^{\prime} 000$ |
| Buildings | 309 |
| Road goods vehicles | 17 |
| Plant, machinery, and other capital equipment | 264 |
| Insurance, licensing and depreciation of road | 38 |
| goods vehicles (b) |  |
| Rates, excluding water rates | 708 |
| Hire of plant and machinery | 59 |
| Postage, telephone, telegrams and cables | 183 |
| Total |  |

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

TABLE 13 Percentage analysis of twelve-month period 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) | 0.3 | November | 0.0 |
| May | 0.0 | December | 40.5 |
| June | 1.5 | 1964 |  |
| July | 1.7 | 1964 |  |
| August | 0.0 | January | 0.3 |
| September | 1.5 | February | 0.0 |
| October | 0.0 | March | 54.2 |
|  |  | Total | 100 |

(a) Including returns made
1st to 5 th April, 1964 .

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

198
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
freeholds purchased and te caplal premium payable for leaseholds acquired (excluding the value of any assets acquired in taking over an exist ing business, and
the amounts receivable for any freeholds or 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
mach inery and of vehicles acquired both machinery and of
new and second-hand, and the amount received for items disposed of dur ing the year. The value of plant and machinery acquired includes plant, etc. Which firms
produced for the ir own use in connect ion with the business covered by the return. The value of plant, etc. acquired is the
expenditure charged to capital account exuring the year of return less any discounts rece ined, but including the cost of
ransport and installation. No deduction transport and instalation. No deduct on obsolescence. The proceeds of items
disposed of during the year exclude amounts disposed of during the year exclude amounts
written off for items scrapped. Written off for items scrapped. of manufactur ing establishments where production had not started before the end of the
dear 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 usuany
nature or manner of production. In most case the characteristic products of each sub-
division are indicated in Table 5 of the division are indicated in Table 5 of the
industry reports. For those industries for industry reports. For those industries for
which an analysis by sub-divisions has been made, Table 2 shows the total sales of such
character ist ic products for each sub-division characteristic products for each sub-division.
The totals include, besides the products which define the sub-division, other items of outpu assumed to be closely related to them, e.g.
Enterprise
The term enterprise is used in this report to
mean one or more firms under common ownership or mean one or more firms under common ownership
control. An enterprise normally consists either of a single firm, or of a parent company together with its subsidiary companies.
Entries
The number of entries shown in Tables 5, 6 and 8 against a part icular 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 premises under the same ownership or managemen at a particular address (e.g. a factory or
mine); but firms were asked to exclude fro all sections of their returns particulars relating to any department not engaged in pro-
duction for which they kept a separate set of duction for which they kept a separate set
accounts. Where separate accounts were not kept, they were asked to include merchanting o
ancillary activities such as bottling, packing and the manufacture of containers for packing and the manufacture of containers for packing
their own products, ${ }^{\text {mhether or not these }}$,
activities are carried on at the same address activities are carried on at the same adas
as the works. Building and engineering as the works. Building and engling and trans
maintenance departments and selling
port departments were treated similarly. port departments were treated similarly
Gross Output
The gross output of an industry is the aggregate value of goods made and other work classified 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 and work in progress at the beginning 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
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 machinery, payments for repairs and mainten-
ance, costs of operating road vehicles, rents,
rates and taxes. advertising and other selling rates and taxes, advertising and other selling
expenses and all other similar charges have to expenses and all other similar charges have There is no appreciable dupl ication 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 purchas
adjusted for stock changes, payments for work given out to other firms, and payments for
transport. Normally any customs or excise duty on
materials purchased is included in the cost of materials. Similarly, finished goods sold have been valued as they were sold, duty paid or
duty free. The amounts of duty, subsidies, allowances and levies receivable or payable, 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-t ime average number of persons employed (full-time
and part-time) on all act ivities covered by the returns, including operatives, administrative, technical and clerical employees and work
proprietors, but excluding outworkers.
Principal Products
The principal products of an industry are those 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 o Production
This means the total quantity of a product made dur ing the year, whether sold in the year, added the same firm, or other products within the business covered by materials supplied by other firms.

Purchases
Purchases include the cost of materials and
components bought for use in production: fuel and electricity for all production; of
aging materials, including the full ; of pack aging materials, including the full cost
turnale cases and containers when first turnable cases and containers when first
purchased; of workshop materials, of fic materials and materials for repairs to firms,
own buildings, plant and vehicles when carried out by the ir own workpeople included in the return; of consumable tools; and of parts for
machinery purchased during the year as replace nachinery purchased during the year as replace
nents. Water charges are also included. In general purchases of goods for merchant ing or
factor ing and canteen supplies factoring and canteen supplies are included.
Materials supplied by customers for processing re excluded. 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 invoiced; amounts paid to transport organisa-
tions, including firms' own separate transport organisations, for delivery of materials and fuel are, therefore, excluded. Materials
purchased overseas are included at their purchased overseas are included at their c.
cost plus any duty payable if the cost of transport from the docks was not included in the
invoiced price, but at their fell invoiced price, but at the ir full delivered cost
if invoiced 'carriage paid home' if invoiced 'carriage paid home'. Materials
and fuel transferred from another department of the firm not covered by the same return are of 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 out workers or by other firms from for mater ials given out to them (somet imes described
as goods made on commission) and waste products. as goods made on commission) and waste products
Any mach inery 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 adoted in are included, the value being that adopted in
the firm's capital asset account. Goods sold the firm's capital asset account. Goods sold
without being subjected to any manufactur without being subjected to any manufactur ing
process (merchanted or factored) and canteen
takings are included as in 1908. takings are included as in 1958 .
The value shown for sales is the nelling value, def ined as the amount charged to
custling customers whether on an ex-works or delivered
basis, net of any trade discounts, agents. basis, net of any trade discounts, agents
comissions, allowances for returnable cases,
purchase 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
included at the f.o.b. value. commission or for the trade the value shown is
the net
the net amount char ged.
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 were treated as sales by the producing depart
ment and valued as far as poss ible as if they had been sold to an independent purchaser. Goods transferred to wholesale or retail sell
ing organisations for which separate ing organisations for which separate accounts Est imations of a similar kind were also some-
imes necessary in that times necessary in valuing transfers between
different firms belonging to the same enterifferent firms belonging to the same e
prise. To the extent that the sales of finished products of one establishment constitute the materials purchased by another,
total figures of the value of sales (and of naterials and fuel purchased) include an
nate element of duplication
Services rendered
This represents the amounts charged for hiring out plant, machinery and other goods, providing
transport, or for any technical or other
services rendered to other organisations ncludes amounts credited for similar services rendered to other departments of the same firm

## 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 inning 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 value of work in progress at the two dates is also
usually shown. This excludes any progress sually shown. This excludes any progress
payments made to sub-contractors, ayments made to sub-contractors, and no de-
duction is made on account of progress payment eceived
Transport Payments
These represent the total amount paid or redited during the year for both outwards transport of trats of materials and fuel purchased. They include payments to other firms, and to any separate transport organisation, of the same
firm, not covered by the return 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 Payments made for sea freight on goods sold to
customers overseas and on materials and fuel purchased from overseas suppliers are excluded. Wages and Salaries
operatives and to administrative the year to operatives and to administrative, technical
and clerical employees. Payments to working proprietors, whether called salaries or not, exclusiond; in Northern Ireland this
excectors of limited companies. The values and commissions, whether paid regularly or no and no deduction is made for income tax, insurances, contributory pensions, etc. The
value of any payments in kind, travelling expenses, 1 odg ing allowances, etc. and
employers' contributions employers' contributions to National Insurance
and pension schemes is excluded.
Work given out
The figures shown represent the total amount pupplied to them, and also by firms' own establ ishments for which separate returns were individual outworkers or payments for business and other services.
Symbols used
The following symbols are used throughout the
report:
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, een rounded to the nearest final digit. There
ay, therefore, be apparent slight discrepancie oe ween the sums of the constituent items and
the totals shown.

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1 Introductory Notes

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3 Stone and Slate Quarrying and Mining

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3 Stone and Slate Quarrying and Mining
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8 Bread and Flour Confectionery
8 Bread and Flour Confectionery
9 Biscuits
9 Biscuits
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8 Brewing and Malting
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7% Genral Chemicals
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\$3 Soap, Detergents, Candles and Glycerine
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43 Engineers' Small Tools and Gauges
44 Industrial Engines
44 Industrial Engines
45 Textile Machinery and Accessor ies
45 Textile Machinery and Accessor ies
46 Contractors' Plant and Quarry1
46 Contractors' Plant and Quarry1
48 office Nachinery
48 office Nachinery
49 Miscellaneous (Non-electrical
49 Miscellaneous (Non-electrical
51 Ordnance and Small Arms
51 Ordnance and Small Arms
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Instruments, etc.
54 Watches and Clocks
54 Watches and Clocks
56 Insulated Wires and Cables
56 Insulated Wires and Cables
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pinning and Doubling of Cotton, Flax and
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Woollen and Worsted
Rope, Twine and Net
1 Hosiery
\$ Hoslery
83 Carpets

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    Canvas Goods and Sa
    Asbestos 
    Leather (Tanning and Dressing) and
    l
    2 Fur
    Fur}\mathrm{ Weatherproof Outerwear
    *)
    Momen's and Girls' Tailored Outerwear 
    Overalls and Men's Shirts, Underwear, etc
    Dresses, Lingerie, Infants' Wear, etc.
    Hats, Caps and Millinery Dress Industries
    9 Corsets
    |
    malay and Refractory Goods
    Bricks, Fireclay and Refractory Goods
    $3 Potter
    04 Glass
    6 Abrasives 
    lo7 Miscellan
    08 Timber
109 Furniture and Upholstery
110 Bedding and Soft Furnishings
111 Shop and Office Fitting
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lol}113\mathrm{ Miscellaneous Mood and Cork Manufactures
114 Paper and Board
lardoard Boxes, Cartons and Fibre-board
Macking Cases
116 Miscellaneous Manufactures of Paper and Board
117 Printing and Publishing of Newspapers and

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120 Linoleum,
20 Linoleum, Leathercl
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