## PA339.7

## Business Statistics Office

## Business Monitor

## CS/42(MR25)

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## 976

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ECONOMIC SCIENCE


## Food and drink processing machinery and packaging and bottling machinery

A publication of the Government Statistical Service

## PA339.7 <br> Business Monitor

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P (for production) followed first by A lindicating tha
it is an annual series) or $\mathbf{Q}$ (quarterly) or M (monthly)
and then by a number indicating the minimum list
heading, or sub-division of a minimum list heading, of
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## Report on the Census of Production 1976

> Food and drink processing machinery and packaging and bottling machinery

Presented by the Secretary of State for Industry Porliament in pursuance of the Statistics of Trade Act 1947 (10 \& il Geo. 6 Cha. 39 sec 7

## Department of Industry

Business Statistics Office

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PA1001 Introductory notes
M Coal mining 
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PA369.1 Electrical eq
dral equipment for motor vehicles, cycles
PA369.2 and arircraft
Primary and secondary batteries
PA369.4
Electric lamps, electric light fittings, wiring
2 Primary and secondary batteries
Electric lamps, electric light fittings, wir
accessories, etc.
accessories, etc.
Shipbuild ing and marine engineering
Wheeled tractor manutacturing
Wheeled tractor manufacturing
Motor vericicter manufaccuturing
Trailers, caravans and fretriight containers
Trailers, caravans and freight containers
Motor cyle, tricyle end pedal cycle manufacturing
Aerospace equipment mank
Motor cycle, tricycle and pedal cycle manufacturing
Aerospace equipment manufacturing and repairing
Locomotives, railway track equipment, railway carriages,
Locomotives, ram
wagons and tram
Engineers'
wagons and trams
Engineers' small tools and gauges
Hand tools and implements
Hand tools and implements gauges
Cutlery, spoons, forks and
Cutlery, spoons, forks and slated tableware, etc.
Bolts, nuts screws.
Bolts, , , sust, screwew, irvest, etc.
Wire and wire manufactures
Wire and wire manutactures
Cans and metal boxes
Jens and metal boxes
Jeweller and precious metals
Jewellery and preat
Metal furniture
1 Metal furniture
5 Drop forgings, etc.
6 Metal hollow ware
Metal hollow- ware
Miscllaneous metal manufacture
Miscellaneous metal manufacture
Production of man-made fibres
Production of man-made fibres
Spinning and doubling on the cotton and flax systems
Weaving of cotton, linen and man-made fibres
Weaving of cotton, line
Woollen and worsted
Jhte
Wooile
Jute
Rope,
Rope, twine and net
Hosiery and other knitted goods
Rope, twine and
Hosiery and oth
Warp knitting
Warp knit
Larpets
Carpets
Nararow fabrics
Household textil
Household textiles and handkerchiefs
Household textiles and handkerchiefs
Textile finish and
Asbestos
Miscellaneous textile industries
Miscellaneous textile industries
Leather (tanning and dressing) and fellmongery
Leather Ianning
Leather goods
Fur
Fur
Weatherproof outerwear
Men's and boys' tailored
Meatherproof outerwear
Men's and boys tailored outerwear
Men's and boys' tailored outerwear
Women's and girls' tailored outerwear

Overalls and men's shirts, underwear,
Dresses, lingerie, infants' wear, etc.
Hats, caps and mill
Hats, caps and millinery
Corsest and miscellaneous dress industries
Gloves
Footwear
Rootwear
Refractory goods
Building bricks and non-refractory goods
Pottery
Glass
Cement
Glass
Cement
Abrasives
Abrasives
Miscllaneous building materials and mineral products
Timber
Furniture and upholstery
Furniture and upholstery
Bedding, etc
Bedding, etc.
Shop and office fittin
Shop and ocfice fitting
Wooden containers and baskets
Wooden contica fiterts and baskets
Miscellaneous wood and cork
Wooden containers and baskets
Miscell laneus wood and cork manufactures
Paper and board
Cardboard boxes, cartons and fibre-board packing cases
Cardboard bookes, cartons and fibre-board packing cases
Mankuging products of faperer and associated materials stationery
Mand
Packaging products of pay
Manutactured stationery
Wallcoverings
Piscellaneous manufactures of paper and board
Printing, publishing of newspapapers and periodicals
Pritining. publishing of newspopape
General printing and publishing
General
R Rubber
Linoleum
Linoleum, plastics floor-covering, leathercloth, etc.
Linoleum, plastics floor-covering, leat
Brushes and brooms
Toys, games and children's carriages
Toys, games and children's carriage
Soorts equipment
Sports equipment
Miscellaneous stat
Miscellaneous stationers' goods
Plastics products
Plastics sroducts
Musical instrum
Musical instruments
2 Miscellaneous m
Construction
Constructi
Gas
Electricity
Electricity
Water supply Manufacturing machinery for food and drink preparation, processing and sterilizing, including dairy machinery, machinery for bottling, packing, canning, packeting and labelling and for bottle washing. Grain milling plant, milking machines, and portable domestic electrical packing, ces are excluded.
appliances

In interpreting the data in the tables it is essential to bear
In interpreting the data in the tables it is essential to bear
in mind the notes and definitions which commence on page (iii).

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Output and costs, 1973-1976
All United Kingdom establishments classified to the industry (a)

|  | Unit | 1973 | 1974 | 1975 | 1976 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Enterorises | Number | 225 | 252 | 254 | 258 |
| Establishments | " | 250 | 277 | 282 | 285 |
| Sales of goods produced | £ thousand | 141,845 | 197.530 | 245,243 | 261,225 |
| Receipts for work done and industrial services rendered | " | (b) | (b) | (b) | 25,421 |
| Capital goods produced for establishments' own use | " | 1,063 | 856 | 1,113 | 439 |
| Non-industrial services rendered | " | 1.852 | 2,271 | 2.804 | 3,201 |
| Goods merchanted or factored | " | 15,406 | 24,522 | 37,712 | 50,683 |
| Total sales and work done (c) | " | 160,166 | 225,179 | 286,872 | 340,969 |
| Increase during the year, work in progress and goods on hand for sale | , | 4,889 | 17.382 | 9,071 | 237 |
| Gross output | " | 165,054 | 242,561 | 295,943 | 341,206 |
| Purchases of materials for use in production, and packaging and fuel | " | 61,296 | 91,468 | 102,815 | 111.878 |
| Purchases of goods for merchanting or factoring | " | 14,579 | 20,516 | 33,029 | 43.536 |
| Increase during the year, stocks of materials, stores and fuel | " | 3.150 | 10,683 | 578 | 972 |
| Cost of industrial services received | " | 4,193 | 13.037 | 13,066 | 15,907 |
| Net output | " | 88,137 | 128,223 | 147,611 | 170,856 |
| Total employment (d) | Thousands | 28.0 | 31.5 | 29.8 | 30.2 |
| Net output per head | £ | 3,143 | 4,065 | 4,947 | 5,656 |
| Payments for non-industrial services |  |  |  |  |  |
| Rents, hire of plant and machinery (e) (f) | £ thousand | 1,001 | 1,293 | 1,551 | 1.546 |
| Commercial insurance premiums | " | 703 | 863 | 1,246 | 1.362 |
| Bank charges | " | 144 | 216 | 244 | 354 |
| Other non-industrial services (g) | " | 5,306 | 9,403 | 11,160 | 15,170 |
| Licensing of motor vehicles | " | 66 | 88 | 125 | 162 |
| Rates, excluding water rates | " | 1,332 | 1,900 | 2.444 | 2,774 |
| Gross value added at factor cost | " | 79,586 | 114,460 | 130,842 | 149,487 |
| Gross value added at factor cost per head | £ | 2,838 | 3,628 | 4,385 | 4,948 |

[^0](b) Included with sales of goods produced.
(c) Details of manufacturers' sales of principal products are published regularly in Business Monitor PQ339.7.
(d) Average number employed, including full and part-time employees (see table 7 ) and working proprietors.
(e) 1973 figures include hire of vehicles.
(f) For 1973 -1975 rents of industrial and commercial buildings were not recorded separately. For 1976 the amount payable was
£ 897 thousand.
(g) 1974-1976 figures include the cost of hiring goods vehicles.

Capital expenditure, $1973-1976$
All United Kingdom establishments classified to the industry (a) (b)

|  | 1973 | 1974 | 1975 | 1976 |
| :---: | :---: | :---: | :---: | :---: |
| Land and buildings |  |  |  |  |
| New building work | 798 | 2,544 | 2.725 | 2,059 |
| Land and existing buildings |  |  |  |  |
| Acquisitions | 300 | 338 | 437 | 124 |
| Disposals | 396 | 23 | 61 | 46 |
| Vehicles |  |  |  |  |
| Acquisitions |  |  |  |  |
| Motor cars | 805 | $901!$ | 1,233 | 1,964 |
| Other vehicles | 163 |  |  |  |
| Disposals |  |  |  |  |
| Motor cars | 254 | 333) | 334 | 512 |
| Other vehicles | 25 | 48) |  |  |
| Plant and machinery |  |  |  |  |
| Acquisitions | 4,203 | 5,401 | 5,865 | 6.739 |
| Disposals | 172 | 294 | 539 | 248 |
| Total net capital expenditure | 5,422 | 8,735 | 9,327 | 10,081 |

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments exempt because of size Including estimates for establishments not making satisfactory returns, non-respons
Satisfactory returns accounted for 83 per cent of employment within the industry.

Capital expenditure in respect of manufacturing establishments where production had not commenced before the end of the year, is
included. included.
table 3
Stocks and work in progress, 1973-1976
All United Kingdom establishments classified to the industry (a)

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments exempt because of size. Satisfactory returns accounted for 83 per cent of employment within the industry.

| Size <br> group <br> (b) | Estab- <br> lish- <br> ments | Enter- <br> prises <br> (c) | Employment |  |  | Wages and salaries ( f ) |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |


| 1-10 | 99 | 98 | 475) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11-19 | 45 | 43 | $666)$ |  |  |  |  |  |  |
|  |  |  | ) | 3,530 | 1.732 | 9,980 | 2,827 | 5.848 | 3,376 |
| 20.49 | 46 | 46 | 1,531) |  |  |  |  |  |  |
| 50-99 | 40 | 40 | 2,762.1 |  |  |  |  |  |  |
| 100-199 | 25 | 25 | 3.423 | 2,190 | 1,231 | 6.319 | 2,885 | 4.286 | 3,482 |
| 200-299 | 10 | 9 | 2,225 | 1,332 | 889 | 3,601 | 2,704 | 3,014 | 3,390 |
| 300-399 | 5 | 5 | 1,755 | 1,140 | 615 | 3,500 | 3,070 | 1,735 | 2.821 |
| 400-749 | 8 | 7 | 4,503 | 2,280 | 2,223 | 6,956 | 3,051 | 7.734 | 3,479 |
| 750-999 | 3 | 3 | 2,586 | 1.115 | 1.471 | 3,285 | 2,946 | 4.714 | 3,205 |
| 1,000 and over | 4 | 3 | 10,284 | 5,636 | 4,648 | 18,278 | 3,243 | 16,738 | 3,601 |


| Total | 285 | 258 | 30,210 | 17,223 | 12,809 | 51,920 | 3,015 | 44,069 | 3,440 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

(a) Includ ing estimates for establishments not making satisfactory returns, non-response and establishments with fewer than 20 employees.
(b) Average number employed, including full and part-time employees (see table 7 ) and working proprietors.
(c) The sum of the figures for the size groups may exceed the total for the industry because some enterprises control establishments in
more than one size group.
(d) Including working proprietors.
(e) Administrative, technical and clerical employees.

| 340,969 | 341,206 | 170,856 | 5,656 | 149,487 | 4,948 | 10,081 | 106,808 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

(f) The cost of employers' contributions to national insurance, graduated pensions, other pensions and welfare schemes and the running The cost of employers contributions to national insurance, graduated
costs of canteens, is estimated for the industry at $£ 13,716$ thousand.
Sales of goods produced, capital goods manufactured, buildings constructed by establishments for their own use, work done Sales of goods produced, capital goods manufactured, buildings constr
industrial and non-industrial services rendered and merchanted goods.
(h) New building work plus acquisitions less disposals of land and existing buildings, vehicles and plant and machinery

Gross value added data relate to establishments employing 1-199.

Regional distribution of employment, net capital expenditure, net output and gross value added at factor cost, 1976 Regional istribution of employment, net capital expenditure, Kingdom establishments classified to the industry
All

| Area | Total employment (a) |  | Net capital expenditure (b) (c) |  | Net output, gross value added and employment in the region from returns received from establishments with more than 80 per cent of their employ. ment in the region (d) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Net output | Gross value added at factor cost | Employment as a percentage of total regional employment in the industry |
|  | Thousands | per cent of <br> United <br> Kingdom |  |  | £ thousand | per cent of United Kingdom | £ thousand | £ thousand |  |
| Standard regions of England |  |  |  |  |  |  |  |
| North | * | * | * | * | * | * | * |
| Yorkshire and Humberside | 2.4 | 7.9 | 628 | 6.2 | 3,786 | 3.463 | 25.9 |
| East Midlands | 2.2 | 7.2 | 931 | 9.2 | 6.189 | 5,473 | 55.6 |
| East Anglia | 3.9 | 12.8 | 1.810 | 18.0 | 5,755 | 5,236 | 26.5 |
| South East | 12.0 | 39.8 | 3.434 | 34.1 | 55,973 | 49,703 | 78.5 |
| South West | 1.5 | 5.1 | 380 | 3.8 | 3,084 | 2,655 | 56.7 |
| West Midands | * | * | * | * | * | * | * |
| North West | 4.0 | 13.3 | 1,218 | 12.1 | 13,876 | 12,497 | 60.4 |
| England | 28.5 | 94.3 | 9,655 | 95.8 | 97,377 | 86,078 | 59.2 |
| Wales | * | * | * | * | * | * | * |
| Scotland | 1.4 | 4.8 | 331 | 3.3 | 4.770 | 4.016 | 64.0 |
| Great Britain | * | * | * | * | * | * | * |
| Northern Ireland | * | * | * | * | * | * | * |
| Unallocated (e) | - | - | - | - | 68,461 | 59,179 | - |
| United Kingdom (b) | 30.2 | 100.0 | 10,081 | 100.0 | 170,856 | 149,487 | - |

(a) Average number employed, including full and part-time employees (see table 7 ) and working proprietors.
(b) Including estimates for establishments not making satisfactory returns, non-response and establishments with fewer than 20 employees.
(c) New building work plus acquisitions less disposals of land and existing build ings, vehicles and plant and machinery.
(d) Where a census return covered addresses in two or more regions an estimate was made of the net output and gross value added Where a census return covered addresses in two or more regions an estimate was made of the net output and gross value added
attributable to to teregion only where more than 80 per cent of the establishment's employees were located in the region. The estimate
was made was made by assuming that net output and gross value added at each address covered by a return was proportional to employment at
the address. the address.
(e) Unallocated net output and gross value added covering establishments with addresses in two or more regions, plus estimates for unsatisfactory returns, non-response and establishments exempt because of size.

Percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments employing 20 or more
Percentage analy
persons, 1976
Accounting year ended
1976 April (a)
Percentage of total returns receind
Aprilla) 2.9
May 1.9 0.9
$\begin{array}{lll}\text { June } & 3.9 & 0.8\end{array}$
July 1.0 0.
August 2.9 0.6
$\begin{array}{lll}\text { September } & 9.7\end{array}$
October 1.9 0.8
November $\quad 1.0$
December 45.6
January $\quad 6.8$ 9.0
February $0.0 \quad 0.0$
$\begin{array}{lll}\text { March }(b) & 22.3 & 31.5\end{array}$
(a) From 6th April.
(b) Including returns made for twelve-month period ended 1st to 5 th April 1977.

TABLE 7
Percentage analysis of employees, by full and part-time employment and sex, 1976(a)
Other mach inery industries, minimum list heading 339


Male
Female
$82 \quad 1 \quad 83$
13
17

Source: Department of Employmen

The percentages relate to the numbers employed (excluding working proprietors) in the United Kingdom in minimum list heading 339 the employme 14 pod and droch processing machinery and packaging and bottling machinery industry represented 14 per cent of the employment of minimum list heading 339 as a whole.

Notes
These notes give the main information needed for Interpreting the figures in the Industry Busines
Monitors: more detailed information about the census is given in a separate Business Monitor
PA1001 (Introductory Notes) of the Report on the PAl001 (Introductory Notes)
Census of Production, 1976.
general information
Changes made for 1976
The Census for 1976 is in line with similar
inquiries being conducted in other member countria of the European Economic Communities. There was small number of changes in the scope of the
Industry reports compared with 1975. These include separate headings for:
Sales of goods produced
Sales of goods produced
Recelpts for work done
and industrial services
Amounts paid for hire of plant and machinery Amounts paid for rent of industrial and
commercial buildings Specific changes are explained in the introductions
to the industry reports or by footnotes to the
tables.

Suppression of information relating to individual undertakings
Section $9(5)(b)$ of the Statistics of Trade Act 1947 Section $9(5)$ (b) of the Statistics of Trade Act 1947
states - The following provisions shall have effect with respect to any report, summary or other under the foregoing provisions of this Act -
in compliling any such report, summary or In compiling any such report, summary or
communication the competent authority shall so
arrange it as to prevent any particulars prange it as to prevent any particulars particulars relating to any individual person or undertaking except with the previous consent in
writing of that person or the person carrying on that undertaking, as the case may be; but this provision shall not prevent the disclosure of the otal quantity or value of any articles produced,
sold or delivered; so, however, that before isclosing any such total the competent authority shall have regard to any representations made to them by any person who alleges that the disclosure thereof would enable particulars relating
to him or to an undertaking carried on by him to be deduced from the total disclosed." a figure involved disclosure the contributor
concerned was sometimes asked to give permission concerned was sometimes asked to give permission
for its publication. In the majority of cases permission was given. When it was refused and where contributors were not approached the figure has been suppressed, elther by combining it with
other figures, or as in the regional tables, by omitting the figure altogether.
Symbols used
The following symbols are used throughout the PA
serles of Business Monitors:

- not avallable
nil or less than half the final digit shown
figures cannot be shown
figures cannot be shown owing to the risk of
disclosing information about individual enter ${ }_{R} \quad \begin{aligned} & \text { prises } \\ & \text { revised }\end{aligned}$

Rounding of figures
Figures in the tables have, where necessary, been ounded to the nearest final digit. Where figures items may not always agree exactly with the total
shown.

Industrial classificatio
The United Kingdom
Classification Classification (SIC) was first issued Industr
in 1948 exists to promote unitormity and comparabilit exists to promote unitormity and comparability
the official statistics of the United Kingd The general principles fol lowed are those of of th
International standard Industrial classiticat International Standard Industrial Classificat
of all Economic Activities of the United Natio
Statile of atistical Office but the United Kingdam
Statictich eflects the organisation and structure industry and trade as it exists in the Unit ingdom. The SIC is a classification by activ
ad is not a commodity classification. Howevor an index of all commodity headings fo sales data are provided in the Quarterly Business tatistical units
statistical unit for the purpose of the Census is the establishment which is defined in the sic information normally required for an econom census, for example, employment, expenses, turia over, capital formation. Usually the princip
activities carried on in an establishment tail within a single heading of the classificat (e.g. steel making or sugar refining). Typlcally the establishment embraces all the activitios
carried on at a single address e.g. a farm, a carried on at a single address e.g. a farm, a mine
or a factory, including those which are ancillary
 activities characteristic of different industritise
are carried on at one address, but normally these are carried on at one address, but normally the
are not classified separately and the who are not classified separately and the who
establishment is classifled according to the ma activity. If, however, the required range of da
can be provided for each activity, each is tak can be provided for each activity, each is tak
to constitute a separate establishment. Someti activities which are conducted as a single business are carried on at a number of addresses, Where this is so, businesses are asked to provide
the full range of separate information in of each address; whether or not the activities a different. Their activities may, however,
integrated to such an extent that they constitu integrated to such an extent that they constit
a single establishment. In the latter case a single establishment. In the latter case the
establishment is defined to cover the combin activities at these addresses (termed loca
units). Separate flures units). Separate fligures are obtained
employment and net capital expenditure at unit in order to complle regional tables. Efforts are made by the Business Statistics offic to ensure, by negotlating with respondents, th the return from an establishment does not cov
local units or addresses in more than one of + countries of the United Kingdom.
Further information about the
Further information about the statistical unit appeared in an article "The statistical unit
business inquiries" in Statistical News No 13 1971 . Establishments are asked to exclude from their
returns particulars relating to any department not returns particulars relating to any department not
engaged in production e.g. merchanting, transpor engaged in production e.g. merchanting, transpor
warehousing, for which they keep a separate set accounts. Transfers of goods produced to sut departments are treated as sales and responden
are asked to value them as far as possible as are asked to value them as far as possible as
sold to an independent purchaser. Where separa accounts are not kept they are asked to include detalls of all these activities in their return. Particulars relating to head offices mainly
engaged in the administration of the production engaged with the administration of the production included. Where more than of re return was made the information in respect of the head office apportioned among them. in the annual censuses
for certain purposes

 oup may be defined as a business consisting of
on single establishment or two or more
ther a Ither ahments under common ownership or control.
stabl ishment together establishments into enterprise
inging 3rining together establishments into enterprise
roups also necessary for the purpose of
insuring that there will be no disclosure of the antivities of any one enterpr ise group.
iormation about the relationship of ltormat ishments, the changing structure of groups
tabal lismen and about common ownership links is
compan les and and oftined from many sources, including the Stock
change Year Book, company reports, press reports

## REGISTER

register permits a questionnaire to be sent ect to the reporting establishment on which
latter can include information relating to all manufa
orises.
mpl

- Incuir ies provide a major source of information
keeping the register continuously up-to-date . keeping the register continuously up-to-date act as a check on its detail and structure.
the establishments on the register making the establishments on the register making
rns to the quarterly inquiries, the industrial turns to the quarterly inquiries, the industrial
assification is derived from an analysis of their
les of commodities and is reviewed annually. bies of commodities and is reviewed annually.
iployment data are entered on the register from aturns to the annual census of production. In
lises where an establishment does not make a return
to these Inquir les the employment data are based on ore these Inquirles the employment data are based on
ifformation provided by the Department of Employformation provided by the Department of Employ
min from the annual censuses of employment.
stabl lishments with 20 or Hablisments with 20 or more employees are
aluded in the censuses each year and the informncluded In the censuses each year and the inform-
tion they supply to the census is supplemented by e returns that those with 25 or more employees out establishments with fewer than 20 employess
most Industries is less securely based, but creasing use has been made of data on these
all establishments supplied by the Department of loyment. One benefit of using this information
an mprovement in the estimates of the an improvement in the estimates of the number of
Ier establishments and enterprises, but there ler establishments and enterprises, but there
$\|+t \mid$ e effect on other aggregates (e.g. employt, output, net capital expenditure).
oturn was required in the 1976 Census from each egurn was required in the 1976 Census from each
tablishment with 20 or more employees. Each
tabl ismment is classified to an industry, as ablishment is classified to an industry, as
ined in the SIC, whose principal products form ined in the SIC, whose principal products
major part of the establishment's sales.
regions defined in Table 5 take account of the regions defined in Table 5 take account of the
undary changes arising out of the Local
Ormment Act 1972 and the Local Government Act tand) Act 197 These changes came into effect i 1974 in England and Wales and May 1975 in


## USED IN THE CENSUS REPORT

rage number employed
persons were required to state the number
persons on the payroll on average during the
of return, whether full-time or part-time
administrative, technical and clerical employess employees (operatives)
all other emen
ages could be calculated from the figures ing to the last week of each calendar month.
lather
number of working propr letors where approprlate and these are included in total employment
figures. Outworkkers (i.e. persons emp loyed by
establishments who worked in their on materials supplied by the establishment) ar excluded. The figures include persons engaged on 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
members of their members of their families who worked in and
business without recelving a wage or salary the business without recelving a wage or salary; but
such persons who worked less than half the normal such persons who worked less than half the normal
number of working hours are excluded. Directors
working in the business but not in recelpt of a working in the business but not in recelpt of a
detinite wage, salary or commission are included under this heading: directors pald by fee only are Emp loyees
Admin istr
incluinistrative, technical and clerical employees salary or commission, managers, a duperintendents and works foremen; research and design employees
(other than operatives): draughtsmen, editorlal staff, the odvertising staft, travellers and all office employees.
Operatives include all other classes of employees Operatives include al speaking, all manual wage earners. They include operatives employed in
power stations, transport ${ }^{2}$ (including roundsmen), warehouses, stores, shops and canteens
inspectors, maintenance workers and cher Operatives engaged in outside work of cleaners fitting etc. are also included, but outworkers

## Capital expenditure

Capital expenditure during the year in respect of manufacturing . units where production had not
started before the end of the year is included Establishments were asked not to deduct from the expected to be received in grants or al lowances from the Government or any statutory body or local
authority. Establishments with 100 or mare authority. Establishments with 100 or more
employees were asked to include a total net employees were asked to include a total net
capital expenditure figure for each calendar year
(a) New building work

This represents the cost incurred during the year be used in connection with constructional work to the return. The value is that charged to capital
account during the year of return; it includes expenditure on new buildings and on the extensio or reconstruction of old bullings, the value of
works of a capital nature carried out by the works of a capital nature carrled out by the
establishment's own staff and the cost of any newly constructed buildings purchased, Figures
shown include legal charges, stamp duties, agents ommissions, etc.
(b) Land and existing buildings
The items shown are the capital cost of freeholds purchased and the capital cost or premlum payable for leaseholds acquired (excluding the value of
assets acquired in taking over an existing assets acquired in taking over an existing
business), and the amounts recelvable for freeholds or leaseholds disposed of. The value is
that charged to capital account during the year of that charged to capital account during the year of (c) Plant, machinery and vehicles The items shown are the value of plant and
machinery and of venicles acquired, both new and
second-hand, and the amount received for second-hand, and the amount received for Items
disposed of during the year. The value of plant
and machinery acquired
firms produced for their own use in connection with the business covered by the return. The value of capital account during the year of return less any discounts recelved, but including the cost of of
transport and instaliation. Deductible value added transport and installation. Deductible value added
tax is excluded but non-deductible value added tax on motor cars acquired is included. No deduction
is made for depreciation, amortization or obsolesIs made for depreciation, amortization or obsoles-
cence. The proceeds of items disposed of during cence. The proceeds of items disposed of during
the year exclude amounts written-off for items
scraped. the year
scrapped.
Cost of industrial services
This includes amounts payable to other firms for
work done on materials supplied by the establishWork done on materials supplied by the establish-
ment, payments for repairs and maintenance (including those in respect of rented buildings)
and amounts pald to other firms for contracts which have been sublet. Payments to outworkers are
excluded.

Cost of non-industrial services
This includes rent of industrial and commercial insurance premiums, bank charges and amounts paid for professional services, post office services,
transport, advertising etc. Amounts payable royaltless for the right to use patents, trademarks, copyrights etc., manufacturing and quarrying rights
and technical "know-how" are also included.

Gross output
In the calculation of gross output the value of fotal sales and work done is increased by the rise
(or reduced by the fall) during the year in the value of work in progress and goods on hand for
sale. Net output
Net output, a customary census measure, is
calculated by deducting from gross output the cost calculated by deducting from gross output the cost of purchases (reduced by the rise, or increased by
the fall, during the year of stocks of materials etc.) and the cost of industrial services received, and where applicable, duties etc.
Net output per head
The figures of net output per head are derived by
dividing the net output by the average number dividing the net output by the average number of of
persons employed (full and part-time) on all persons employed (full and part-time) on all
activities covered by the returns, including
operatives, administrative operatives, administrative, technical and clerical
employees and working proprietors, but excluding utworkers

Gross value added at factor cost
Gross value added at factor cost is calculated by
deducting from net output the cost deducting from net output the cost of nonIndustrial services (e.g. rent of buildings, hire
of plant and machinery, commercial insurance premlums, bank charges and commercial insurance
professional amounts paid for professional services, post of ofice services,
transport and advertising), rates (excluding water transport and advertising), rates (excluding water
ates) and the cost of licensing motor vehictes This estimate of gross value added approaches more closely than census net output to the definition f net output or value added in national accounts
tatistics. statistics.
Gross value added at factor cost per head
The figures of gross value added at factor
hee flgures of gross value added at factor cost per by the average number of persons gross value added
by toy (ful) art-time) on all all activities employed (full and
covered by the returns, including operatives, administrative,
technical and clerical employees and working proprletors, but excluding outworkers.
Purchases
Purchases include the cost of raw materials,
components, semi-manufactured goods and workshop
materlals; of replacement parts and consum tools not charged to capltal account; of pansumable materials of all types; of stationery and printeg matter; of fuel, electricity and water;
materials to be used by the establishment or out to other establishments for the product give machinery or other capltal items for the estab
ishmentls own use; of materials Iishment's own use; of materials for use by establishment when working on goods supplied the customers; and of food, etc. for any cantee
covered by the establishment's return. Transters of goods to the establishment from another depar
ment of the same firm not covered ment of the same firm not covered by the
establishment's return are included at corresponding to the estimated selling valus recorded by the other department. Amounts payabl
to transport firms or credited to the firmis on transport department for delivery of materlals a excluded, as are all purchases of machinery
plant charged to capital account. Purchases goods for merchanting or factoring have exclude VAT. They include, in addition to actual purchase price, the value of packa material charged to the establishment. The val of returned goods or packaging material return Materials purchased duty-pald are included at at duty-paid value, less any drawback, rebate, The cost of transport is included only If
included with the purchase price in the accounts Imported goods are included at ther
full delivered cost. If in the firm's acal full delivered cost. If in the firm's accounts th
transport from docks or airport is not includd transport from docks or alrport is not included
the cost of goods purchased, the cost is
 and hire purchase charges are excl uded.
Sales of goods produced
Sales for the purposes
means delliveries on sale of the annual censuse IIshments in the United Kingdom covered by the inshiry. Sa tes of goods made for these estab from materials given out to them and sales waste products are included. New building wor
and machinery or other capital items prodither and machinery or other capital Items produced estabarded as sales, hiring out or leasing ar ar ine included in the
regat return beisg that adopted in the establishments capital asset acluunts. Forward sales and cant
takings are excluded. All sales in the
ther the inquiry are included irrespective of when the goods were manufactured. Goods produced in an establishn
department departments not engaged in production for whic establishment of the same firm not covered by the return, are treated as sales by the producing estab had been sold to as independent purchaser
they
Goods transferred Goods transferred to wholesale or retali selling
organisations, for which separate accounts aro organisations, for which separate accounts ar
kept are valued on the same hasis The value shown for sales is the "net selling value" defined as the amount (excluding value
added tax) charged to customers whether
 discounts and agents' commissions have best
deducted deducted. The cost of packing materials less
allowance for returnable cases is industries whereternable cases is included. In inducts attract Exclse Duty the
value stated duty-paid and exclusive of duty if sold in bond a
dity exported.
Work done and industrial services rendered Figures for work done represent the amount chargel
for work carried out on materlals supplied by
ustrles this heading covers a wide varlety of
ivities, for example, within the food sector tivities, for example, within the food sector
tor packed on commission; within the textile tustrles - making up of garments, fur dressing textle finishing; within printing and pub-
theparatory work on type-setting, block shing - preparating Work done is also significant king and ectrical machinery and heavy engineering dustrles, covering erection, installation and
air and jobbing work. Other activitios within pair and jobbing work, oxther activities with is heading, include exploration work, research and
gvelopment, glass cutting and dressing and planing
imber otimber: services rendered include repairs and intenance, Installatlon work, and technical
search and studies for other organisations. apital goods produced for establishments' own use is includes all work of a capltal nature carriled
$t$ during the year by the establishments' own it during the year by
faff for their own use.
n-Industrial services rendered
Is Includes rents recelved for commercial and
dustrial bullidings, amounts it plant, machinery and other goods and hiring arged to other organisations for the provision of
onsport. It also includes amounts recelved for right to use patents, trademarks, copyrights ., manufacturing and quarrying rights and tech-
nknow-how" and revenue from such staf "know-how" and
illities as canteens.
foods merchanted or factored
lorchanted goods are those
Verchanted goods are those (excluding canteen
shlos) sold without having been subjected to any
nanufacturing process by the seller siastacturing process by the seller.
nanu
stocks and work in progress
alues are given of stocks
a and of sate
values are given of stocks of goods on hand for
sole and of materials, stores and fuel, at the end io and of materials, stores and fuel, at the end
ite year of return and of the change during the ferchanting or factoring. Work in progress is
than as materials which have been partlaily defthed as materials which have been partially
rocessed by the establishment but which are not rocessed by the establishment but which are not
usually sold or transferred to another estab-
shment without further processing. The value include the cost of mater ials consumed and labour used, together with a margin of overhead costs and
rof its. Progress payments made to sub-
 veducted.
These are amounts pald during the year to
operatives and to administrative, technical and poeratives and to administrative, technical and
clerical employees. Payments to working
oopletors, whether called salaries or axcluded. The values shown include all overtime
ayments, bonuses and commissions whether paid egularly or not, and commissions, whether paid
ncome tax, Insurances, contribution is made for for pensions etc. cone tux, insurances, contributory pensions etc.
he value of redundancy payments less any amounts elmbursed from Government sources is included.
the value of any payments in kind, travelling expenses etc. Is excluded.
omunneratlon pald to outworkers
he remuneration pald to outworkers (1.e. persons
amployed by the establishment who do their work in
$\qquad$ basls. Only amounts pald to outworkers whose names appaar on the establishment's payroll are included.
Anounts paid to outworkers by sub-contractors are minounts pa
mxCluded.

Inployers' Insurance and welfare contributions
This Item includes employersi contribut
his Item Includes employers' contributions to
aratonal Insurance and graduated larnings insurance and graduated pensions (and/o
related basic contributions under the

Soclal Security Act, 1973) as well as commercial
insurance premiums to provide pensions, supernsurance premiums to provide pensions, super-
annuation or other retirement beneflits, sickness benefits, personal accirement benofits, disablity or death benefits for employees, or former the running costs of canteens, social centres, children's and holliday homes, etc. for employees, former employees and their dependants are also
included.
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[^0]:    (a) Including estimates for establishments not making satisfactory returns, non-response and establishments exempt because of siz

