## PA342

## 1976

## Report on the Census of Production

## Ordnance and small arms

## Business Monitor

A publication of the Government Statistical Service

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## Report on the Census of Production 1976

## Ordnance and small arms

Presented by the Secratary of State for Industry to Parliament 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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| :---: | :---: | :---: | :---: |
| PA101 | Coal mining |  | and aircraft econdary batteries |
| PA102 | Stone and slate quarrying and mining | PA369.4 | Electric lamps, electric light fittings, wiring |
| PA103 | Chalk, clay, sand and gravel extraction |  | accessories, etc. |
| PA109 | Miscellaneous mining and quarrying | PA370 | Shipbuilding and marine enginee |
| 211 | Grain milling | PA3381.1 | Motor vehicle manufacturin |
| PA212 | Bread and flour contectionery | PA381.2 | Trailers, caravans and freig |
| PA213 | Biscuirs | PA382 |  |
| PA214 | Bacon curing, meat and fish products |  |  |
| PA215 | Sugar mik products | PA384 | Locomotives, railway track equipment, railway carriages, |
| PA217 | Cocoa, chocolate and sugar confectionery |  |  |
| PA218 | tand vegetable | PA390 | ineers' small to |
|  | mal and poultry foods | PA391 | tools a |
| PA221 | Vegetable and animal oils and fats | PA392 | Cutlery, spoons, forks |
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| PA229.2 | Starch and miscellaneous foods | PA395 | Cans and metal boxes |
| PA231 | Brewing and malting | PA396 | Jewellery and precious metals |
| ${ }^{\text {PA A23239 }} 1$ | Soit drinks Spirit distiling and compounding | PАЗ99. 1 | Metal furniture |
| PA239.2 | British wines, cider and perry | PA399. 5 | Drop forgings, |
| PA240 | Tobacco | PA | Metar ho |
| PA261 | Coke ovens and manufactured fuel | PA399, | Miscelianeous metal manufactur |
| PA262 | Mineral ooir refining areses | PA412 | Spinning and doubling on the cotton and flax syste |
| ${ }_{\text {PA } 2711}$ | Lubricating oils and greases | PA413 | Weaving of cotton, linen and man-made fibres |
| PA271 | Organic c | PA414 | Woollen and worsted |
| PA271.3 | Miscellaneous chemicals | PA415 | Jute |
| PA272 | Pharmaceutical chemicals and preparations | PA416 | Rope, twine and net |
| PA273 | Toilt preparations Paint | PA417.2 | Warp knitting |
| PA275 | Soap and det | PA418 | Lace |
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|  | hetic rubber |  |  |
| 277 | Dyestufts and pigments |  | Canvas goods and sacks and other made-up textiles |
| ${ }_{\text {PA }}$ PA2789, 1 | ${ }^{\text {Fertilizers }}$ | PA423 | Textile finishing |
| PA279.2 | Formulated adhesives, gelatine, etc. | PA429.1 | Asbestos |
| PA279.3 | Explosives and fireworks | PA429.2 | Miscellaneous textile industri |
| PA279.4 | Formulated pesticides, etc. | PA431 | Leather (tanning and dressing) and |
| PA279.5 | Printing ink | PA432 | Leather goo |
| ${ }_{\text {PA279. }} 7$ | Shotographic chemical materials | PA441 | Weatherproof outerwear |
| PA311 | Iron and steel (general) | PA442 | Men's and boys' tailored outerwe |
| PA312 | Steel tubes | PA443 | Women's and girrs' tailored outerwear |
| PA313 | Tron castings, etc. |  | s and |
| PA321 | Aluminium and aluminium alloys | PA445 | Dresses, , ingeri |
| PA322 | Copper, brass and other copper alloys | PA446 | Hats, caps and miner |
| PA323 | Miscellaneous base metals | PA449.1 | Corsets and miscellaneous dress indus |
| PA331 | Agricultural machinery (except tractors) | PA449.2 | Gloves |
| PA332 | Metal-working machine tools | PA450 | Footwear |
| PA333 | Pumps | PA461. 1 | Refractory goods |
| PA333.2 |  | PA461.2 | Building bricks and non-refractory goods |
| PA333.3 | Compressors and fluid power equipment | PA462 | Pottery |
| PA334 | Industrial engines |  |  |
| PA335 | Textile machinery and accessories |  | Comenives |
| PA337 | Construction and earth-moving equipment | PA469. 2 | Miscellaneous building mater |
| PA338 | Office machinery | PA471 | Timber |
| PA339. | Mining machinery | PA472 | Furniture and upholstery |
| PA339.2 | Printing, bookbinding and paper goods mac | PA473 | Bedding, eto |
| PA339.3 | Refrigerating machinerr, space-heating, | PA474 | Whop and coiftice eitriners and baskets |
| PA339.5 | Scales and weighing machinery and portable |  | Miscellaneous wood and cork manufactur |
|  |  | PA481 | Paper and board |
| PA339.7 | Food and drink processing machinery and | PA482.1 | Cardboard boxes, cartons and fibre-board packing cass |
|  | packaging and bottling machine | ${ }_{\text {PA4 } 483}$ | Manuatactured statione |
|  | elwork |  | Wallcoverin |
| PA342 | Ordnance and small arms | PA484.2 | Miscellaneous manufactures of paper and board |
| PA349. 1 | Ball, roller, plain and other bearings | PA485 | ting, publishing of newspapers and periodicals |
|  | Precision chains and other mechanical engineering | PA489 | and publis |
| PA351 | Photographic and document copying equipment | PA491 | Rub |
| PA352 | Watches and clocks | PA492 | Linoleum, plastics floor-covering, leathercl |
| PA353 | Surgical instruments and appliances | PA493 | Brushes and brooms |
| PA354 | Scientific and industrial instruments and systems | PA494.1 | Toys, games and children's carriages |
| PA361 | Electrical machinery | PA494.3 | Sports equipment |
|  | lated wires and cables | PA495 | Miscellaneous stationers' goods |
| PA363 | Telegraph and telephone apparatus and | PA496 | Plastics products |
|  | Radio and | PA499. 2 | Miscellaneous manufacturing industries |
| PA365. 1 | Gramophone records and tape recordings | PA500 | Construction |
|  | Broadcast receiving and sound reproducing | PA601 |  |
| PA366 | Electronic computers | PA603 | Water s |
| 367 | Radio. radar and electronic capital goods | PA1002 | Summary tables |
|  | Electrical appliances primarily for domestic use |  |  |

The information in this report relates to establishments classified to the Ordnance and small arms industry, minimum list heading 342 in the Standard Industrial Classification (revised 1968). The activities of the industry include:-

Manufacturing guns, machine guns, mortars, rifles, pistols, revolvers, torpedoes, shell cases and components, bomb cases and components cases and componentsfor small arms ammunition, sporting guns, air rifles, etc; swords, bayonets, etc; manufacturing live military ammunition. Tanks are included but armoured cars and troop carriers are excluded.

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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Percentage analysis of employees, by full and part-time employment and sex, 19767

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

|  | Unit | 1973 | 1974 | 1975 | 1976 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Enterprises | Number | 68 | 69 | 72 | 73 |
| Establishments | " | 77 | 80 | 83 | 85 |
| Sales of goods produced, work done and industrial services rendered | £ thousand | 99,602 | 128,085 | 161.819 | 223,985 |
| Capital goods produced for establishments' own use | " | 338 | (b) | (b) | 161 |
| Non-industrial services rendered | " | 344 | 6.985 | 484 | 534 |
| Goods merchanted or factored | " | 2,604 | 6.657 | 9,200 | 16,339 |
| Total sales and work done | " | 102,888 | 141,727 | 171,504 | 241,020 |
| Increase during the year, work in progress and goods on hand for sale | " | 1,385 | 8,231 | 10,377 | 16,282 |
| Gross output | " | 104,273 | 149,958 | 181,881 | 257,301 |
| Purchases of materials for use in production, and packaging and fuel | " | 47,959 | 66,818 | 92,767 | 126,346 |
| Purchases of goods for merchanting or factoring | " | 1,903 | 4.476 | 7.511 | 12,726 |
| Increase during the year, stocks of materials, stores and fuel | " | 956 | 3,863 | 8,376 | (c) |
| Cost of industrial services received | " | 5,055 | 6,867 | 4.779 | 4,318 |
| Net output | , | 50,312 | 75,660 | 85,200 | 113,912 |
| Total employment (d) | Thousands | 20.0 | 19.8 | 18.8 | 19.5 |
| Net output per head | £ | 2,521 | 3,820 | 4,542 | 5,833 |
| Payments for non-industrial services |  |  |  |  |  |
| Rents, hire of plant and machinery (e)(f) | £ thousand | 279 | 288 | 306 | 364 |
| Commercial insurance premiums | " | 557 | 521 | 659 | 797 |
| Bank charges | " | 31 | 46 | 52 | 93 |
| Other non-industrial services (g) | " | 1,334 | 1.818 | 2,962 | 4.802 |
| Licensing of motor vehicles | " | 8 | 10 | 12 | - 14 |
| Rates, excluding water rates | . | 909 | 1.169 | 1,369 | 1,402 |
| Gross value added at factor cost | " | 47,195 | 71,808 | 79,840 | 106,439 |
| Gross value added at factor cost per head | £ | 2,365 | 3,626 | 4,256 | 5,450 |

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments exempt because of size. Satisfactory returns accounted for 94 per cent of employment within the industry.
(b) Included with Sales of good produced, work done and industrial services rendered.
(c) Included with Purchases of materials for use in production and packaging and fuel.
(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 wa
£160 thousand. $£ 160$ thousand.
(g) 1974-1976 figures include the cost of hiring goods vehicles.

TABLE 2
Capital expenditure, 1973-1976
Capitat expenditure, 1973-1976
All United Kingdom establishments classified to the industry (a) (b)

|  | 1973 | 1974 | 1975 | 1976 |
| :---: | :---: | :---: | :---: | :---: |
| Land and build dings |  |  |  |  |
| New building work | 1,144 | 1.042 | 2.407 | 1,645 |
| Land and existing buildings |  |  |  |  |
| Acquisitions | 300 | 197 | 23 | 21 |
| Disposals | 97 | 111 | - | 59 |
| Vehicles |  |  |  |  |
| Acquisitions |  |  |  |  |
| Motor cars | 61 | 104) | 188 | 380 |
| Other vehicles | 54 | 73) |  |  |
| Disposals |  |  |  |  |
| Motor cars | 13 | 31) | 33 | 110 |
| Other vehicles | 6 | $4)$ |  |  |
| Plant and machinery |  |  |  |  |
| Acquisitions | 4.961 | 5,312 | 6.470 | 12,280 |
| Disposals | 313 | 277 | 240 | 241 |
| Total net capital expenditure | 6,092 | 6,306 | 8,815 | 13,917 |

(a) Including estimates for establishments not máking satisfactory returns, non-response and establishments exempt because of size. (a) Including estimates for establishments not making satisfactory returns, , on-response Satisfactory returns accounted for 94 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

TABLE 3
Stocks and work in progress, 1973-1976
Stocks and work in progress, 1973-1976
All United Kingdom establishments classified to the industry (a)


Materials, stores and fuel
Work in progress
Goods on hand for sale
Total
(a) Including estimates for establishments not making satisfactory returns, non-response and establishments exempt because of size.

Satisfactory returns accounted for 94 per cent of employment within the industry.
(b) Included with work in progres


| Total sales and work done (g) | Gross output | Net output |  | Gross value added at factor cost |  | Net capital expenditure (h) | Total stock and work in progress at end of yea |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | $\begin{aligned} & \text { per } \\ & \text { head } \end{aligned}$ | Total | $\begin{aligned} & \text { per } \\ & \text { head } \end{aligned}$ |  |  |
| £ thousand | £ thousand | f thousand | £ | f thousand | £ | f thousand | f thousand |
| 10,759 | 11,990 | 5,206 | 5.264 | (j) | (j) | 196 | 4.073 |
| 8,864 | 9,096 | 3.696 | 5,980 | 7,214(j) | 4.489(j) | 148 | 2.594 |
| 10,235 | 10,664 | 5.180 | 5,430 | 4,719 | 4.947 | 242 | 2,723 |
| 19,446 | 20.625 | 7.628 | 4,448 | 7.214 | 4.207 | 918 | 9,862 |
| 191,716 | 204,927 | 92,202 | 6,045 | 87,291 | 5.723 | 12,412 | 107,271 |

(f) The cost of employers' contributions to national insurance, graduated pensions, other pensions and welfare schemes and the running
costs of canteens, is estimated for the industry at $£ 6,962$ thousand.
(g) Sales of goods produced, capital goods manufactured, buildings constructed by establishments for their own use, work done,
industrial and non-industriai 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 1-299.
tABLE 5
Regional distribution of employment, net capital expend iture, net output and gross value added at factor cost, 1976
All United Kingdom establishments classified to the industry Regional distribution of employment, net capital expenditure
All United Kingdom establishments classified to the industry

| 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 employment 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 <br> United <br> Kingdom | £ thousand | $\overline{\text { £ thousand }}$ |  |
| Standard regions of England |  |  |  |  |  |  |  |
| North | * | * | * | * | * | * | * |
| Yorkshire and Humberside | * | * | * | * | * | * | * |
| East Midlands | * | * | * | * | * | * | * |
| East Anglia | * | * | * | * | * | * | * |
| South East | 3.1 | 15.9 | 641 | 4.6 | 14,055 | 13,213 | 89.3 |
| South West | 0.2 | 1.0 | 50 | 0.4 | * | * | * |
| West Midlands | 3.4 | 17.3 | 2.162 | 15.5 | 19,114 | 16,657 | 97.0 |
| North West | * | * | * | * | * | * | * |
| England | 18.7 | 95.9 | 13,623 | 97.9 | 105,563 | 99,250 | 97.0 |
| Wales | * | * | * | * | * | * | * |
| Scotland | * | * | * | * | * | * | * |
| Great Britain | 19.5 | 100.0 | 13,917 | 100.0 | 107,295 | 100,610 | 94.3 |
| Northern Ireland | - | - | - | - | - | - | - |
| Unallocated (e) | - | - | - | - | 6.616 | 5,830 | - |
| United Kingdom (b) | 19.5 | 100.0 | 13,917 | 100.0 | 113,912 | 106,439 |  |

(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 buildings, 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 attributable to the region only where more than 80 per cent of the establishment's employees were located in the region. The estimate
was made by assuming that net output and gross value added at each address covered by a return was proportional to emplonment 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.
辟
(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.
tABLE 6
Percentage analy
persons, 1976

| Accounting year ended |  | Percentage of total returns received | Percentage of total number employed |
| :---: | :---: | :---: | :---: |
| 1976 |  | per cent | per cent |
|  | April (a) | 0.0 | 0.0 |
|  | May | 0.0 | 0.0 |
|  | June | 0.0 | 0.0 |
|  | July | 8.3 | 1.6 |
|  | August | 0.0 | 0.0 |
|  | September | 0.0 | 0.0 |
| 1977 | October | 0.0 | 0.0 |
|  | November | 0.0 | 0.0 |
|  | December | 41.7 | 27.0 |
|  | January | 4.2 | 0.2 |
|  | February | 0.0 | 0.0 |
|  | March (b) | 45.8 | 71.3 |

(a) From 6th April.
(b) Including returns made for twelve-month period ended 1st to 5th April 1977.
table 7
Percentage analysis of employees, by full and part-time employment and sex, 1976(a)

| Sex | Full-time | Part-time | All employees |
| :---: | :---: | :---: | :---: |

Male
79
80
Female
16
20

Source: Department of Employment
(a) The percentages relate to the numbers employed lexcluding working proprietors) in the United Kingdom at end June, 1976.

Notes
These notes give the main information needed for
interpreting the tigures in the Industry Business interpreting the figures in the industry Business
Monitors: more detalled information about the census is given in a separate Business Mon itor -
PAlool (Introductory Notes) of the Report on the PA1001 (Introductory Notes)
Census of Production, 1976.
general information
$\begin{array}{lll}\text { Changes made for } & 1976 \\ \text { The Census for } & 1976\end{array}$
The Census for 1976 is in line with similar
inquiries being conducted in other member countries of the European Economic Communities. There was a
small number of changes in the small number of changes in the scope of the
Industry reports compared with 1975. These include
separate heading for: separate headings for:
Sales of goods produc
Sales of goods produced
Recelpts for work done and industrial services
rendered receldered
Amounts
Amounts paid for hire of plant and machinery
Amounts paid for rent of industrial and Amounts paid for rent of industrial and
commercal builings
Specific changes are explained in the introductions Specitic changes are explained in the introductions
to the industry reports or by footnotes to the
tables.
Suppression of information relating to individual
undertakings undertakings
Sectlon $9(5)$ (b) of the Statistics of Trade Act 1947
states - "The following provisions shall have states - "The following provisions shall have
effect with respect to any effect with respect to any report, summary or other
communicat ion to the public of information obtained under the foregoing provisions of this Act -
in compling any such report, summary or In compliling any such report, summary or
communication the competent authority shall so
arrange it as to arrange it as to prevent any particulars
published therein from belng Identified as being
particulars relating to any individual person or particulars relating to any individual person or
undertaking except with the previous consent in
writing of that person or the person carrying on writing of that person or the person carrying on
that undertaking, as the case may bea but this provision shall not prevent the disclosure of the
total quantity or value of any articles produced,
sold or dellider total quantity or value of any articles produced,
sold or dellivered; so, however, that before
disclosing any such totai the competent authority disclosing any such total the competent authority
shall have regard to any representations made to
them by any Shall have regard to any representations made to
them by any person who all leges that the dis-
closure thereof would enable particulars relating to him or to an undertaking carried on by him to if a digure from the total disclosed." concerned was sometimes asked to give permission
for its publication for its publication. In the majority of cases
permission was given. When it permission was given. When It was refused and
where contributors were not approached the figure has been supprossed, either by combining it with
other figures, or as in the other figures, or as in the regional tables, by
omitting the figure altogether.
Symbols used
The fol lowi
The following symbols are used throughout the PA
serles of Business Monitors: .- not avallable
$-\quad$ nil or less the

* nil or less than half the final digit shown figures cannot be shown owing to the risk of
disclosing information about individual enter
prises
revised
Rounding of flgures
Flgures in the tabl
Rounding of flgures
F gures in the tables have, where necessary, been
rounded to the nearest final digit. Where figures ounded to the nearest final digit. Where figures have been so rounded, the sum of the constituent
items may not always agree exactly with the total
shown.

Industrial classification
The United The United KIngdom Standard Industrial
Classification (SIC) was first issued in 1948 and
was subsequently exists to promote unlformity and comparablit 1958 and
the the official statistics of the United Kingdo The general principles fol lowed are those of the International Standard Industrial Classification
of all Economic Activities of the United Nations
Stiction Statistical office but the United Kingdam Silons
reflects the organ sation and structure Sicher reflects the organisation and structure of
industry and trade as it exists in the industry and trade as it exists in the United
Kingdom. The SIC is a classification by activity
and is not a comodity classificion and is. not a commodity classification. by activity
an inever,
index of all commodity headings for which
sales dat alt sales data are provided in the Quarterly Business
Monitors, is published in Business Monltor PQ1000. Statistical units
Statistical units
The statistical unit for the purpose of the Census
is the establilishment is the establishment which is defined in the sic
as the smallest unit which can provide the
information normall as the smallest unit which can provide the
information normally required for an economic
census, for example, employment, expenses, turnover, capital formation. Usually the principal
activities carried on activities carrled on in an establishment fall within a single heading of the classifictill Within a single heading of the classification
(e.g. steel making or sugar refining). Typlcally
the establishment embraces all the (e.g. steel making or sugar refining). Typically
the establishment embraces all the activities
carried on at a sing carried on at a single address e.g. a farm, a mine or a factory, including those which are ancllilary
to the principal activities. Frequently distinct
activities characteristic Frequently distinct
activitles characteristic of different industries
are carried on at one address are carried on at one address, but normally these
are not classified separately and the are not classifled separately and the whole
establishment is classified according to the maln
activity. If, inder activity. If, however, the required range of data can be provided for each activity, each is taken activitites which are conducted as a single
business are carried on at a number of addrestion business are carried on at a number of addresses.
Where this is so, businesses are the full range of businesses are asked to provide
the information in respect
of each address; whether or the fall range of separate information in respect
of each address; whether or not the activitles are
different.
Their activities may, however, be integrated to such an extent that they constitute
a single establifshment. In the latter case the a single establishment. In the latter case the
establishment is defined to cover the combined
activities at these addresses activities at these addresses (termed local
units). Separate figures are obtained of employment and net capltal expenditure at oach
unit in order to complie regional table unit in order to complle regional tables.
Efforts are made by the Business Statistics to ensure, by negotlating with respondents office the return from an establ ishment does not cover local units or addresses in more than one of the countries of the United Kingdom.
Further information about the statistical unit appeared in an article "The statistical unlt in
business inquiries" In Statistical News No. 13 May business inquiries" in Statistical News No. 13 May
1971.
Establishments are asked to exclude from their returns particulars relating to any department not
engaged in production e.g. merchanting, transport, engaged in production e.g. merchanting, transport, arehousing, for which they keep a separate set of
accounts. Transfers of goods produced to such departments are treated as sales and respondents
are asked to value them as tar
 soccounts are not kept they are asked to include
ind details of all these activities in their return.
Particulars relating to in Particulars relating to head offices malnly
engaged in the administration of the production
units within the scope of the census were Included. Where more than of the return census was made the information in respect of the head office was apportioned among them.
For certain purposes in the annual censuses of
roduction (espectally the enterprise analyses of fiusiness Monitor PA1002) related establishments eusiness rereup may be deflned as a business consisting of
oroup a single establishment or two or more it ther a single establishment or two or more
establishments under common ownership or control. stablishments under common ownership or controise
bringing together establ I Ishments into enterprise
roups is also necessary for the purpose of of

 astabl ishments, the changing structure of groups
of companies and about common ownership links is
of ing maty sources, including the stock


THE REGISTER
he register permits a questionnaire to be sent Irect to the reporting establishment on which
he latter can Include Information relating to alt
the manufacturing (or local) units which it omprises. inquirles provide a major source of information
 act as a check on its detail and structure.
the establishments on the register making or the establifhments on the register making
eturns to the quartely Inquiries, the industrial cassificatlon is derived from an analysis of thelr
cales of commoditles and is reviewed annually. sales of commodities and is reviewed annually.
Empoyment data are entered on the register from
oturns to the annual census of productlon. In cases where an establ Ishment does not make a return
to these Inquir les the employment data are based on to these Inquirles the employment data are based on
information provided by the Department of Employ-
per information provided by the Department of employ-
ment from the annual censuses of employment.
Establishments with 20 or more employees are Included In the censuses each year and the inform-
thon they supply to the census is supplemented by
the returns that those with 25 or more employees
 bout establlishments with fewer than 20 employees
in most industrles is less securely based, but
increasing use has been made of data on these
 inployment. One benefit of using this information
is an improvement in the estimates of the number of snal ler establishments and enterprises, but the
is Ittle effect on other aggegates (e.g. employ
nent, output, net capital expenditure).

Coverage
Areturn was required in the 1976 Census from each
astabl Ishme establishment with 20 or more employees. Each
ostablishment is classifled to an industry, as
ost def Ined in the SIC, whose principal products
the major part of the estabilishment's sales.
Regions
The regions defined in Table 5 take account of the
boundary changes arising out of the Local boundary changes arising out of the Local
Covernment Act 1972 and the Local Government Act and
Scotland) 1973. These changes came into offect in
oril 1974 in England and Wales and May 1975 in (Scotland)
April 1974
Scotland.
ERMS USED IN THE CENSUS REPORT
Nverage number employed
istabli ishments
stabilishments were reguired to state the number
of persons on the payroll on average during the of persons on the payroll on average during the
year of return, whether full-time or part-time
employees. Separate figures were required for:
(a) administrative, technical and clerical
(b) all other employees (operatives)

Nerages could be calculated from the figures
erages could to the last week of each callendar month.
elating to the
stablishments were also required to state the
number of working propriletors where appropriate
and these are included in total employment flgures. Outworkers (1. $\theta$. persons employy by
establ ishments who worked in their own homes etc. establishments who worked in their own homes etc.
on materlals supplled by the establishment) are excluded. The figures Include persons engaged on merchanting or factoring and canteen workers where
particulars in respect of these activities could particulars in respect of thes
not be excluded from the return.
Working proprietors
These include all
These include all persons regarded as "self-
employed" for national Insurance purposes and
members of their families who worked in the members of their families who worked In the
business without recelving a wage or salary; but business without recelving a wage or salary; but
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
definite wage, salary or commission are Included definite wage, salary or commission are included
under this heading: directors pald by fee only are not included.

## Emp loyees

Administrative, technical and clerical employees
Include directors salary or commission, managers, superintendents and works foremen; research and design employees (other than operatives); draughtsmen, editorlal
staff, advertising staff, travellers and all office employees. Operatives include all other classes of employees,
that is, broadly speaking, all manual wage
earners. They include operatives employed in power stations, transport (including roundsmen),
warehouses, stores, shops and canteens, warehouses, stores, shops and canteens,
inspectors, maintenance workers and cleaners.
Operatives engaged in outside work of erecting Operatives engaged in outside work of erecting,
fitting etc. are also included, but outworkers are excluded.
Capital expenditure
Capital expenditur
Capital expenditure during the year in respect of manufacturing. units where production had not
started before the end of the year is included.
Establishments started before the end of the year is included,
Establishments were asked not to deduct from the
value of capltal value of capital expenditure amounts recelved or
expected to be recelved in grants or allowances expected to be recelved
from the Government or any statutory body or
author ity
Establishments with
employees were asked to Include a tor
atal authority. were asked to Include a total net
emplay
cap $i t a l$
(a) New building work
This represents the

This represents the cost incurred during the year of new building and other constructlonal work to
be used in connection with the business covered by the return. The value is that charged to capita account during the year of return; the extension or reconstruction of old buildings, the value of
works of a capltal nature carried out by the establishment's own staff and purchased. cost of any
newly constructed buildings pures shown include legal charges, stamp duties, agents'
commissions, etc.
(b) Land and existing buildings

The items shown are the capital cost of freeholds purchased and the capital cost or premlum payable tor leaseholds acquired aking over an existing business), and the amounts recelvable for free-
holds or leaseholds disposed of The value is holds or leaseholds disposed of The value is
that charged to capital account during the year of return.
(c) Plant, machinery and vehicles

The items shown are the value of plant and
machinery and of vehicles acquired, both new and machinery and of vehicles acquired, both new and
second-hand, and the amount received for tems
disposed of second
disposed of during the year. The value of plant
and machinery acquired includes plant, etc. which
firms produced for their own use in connection with the business covered by the return. The value of plant, etc. acquired is the expenditure charged to discounts recelved, but including the cost an transport and installation. Deductible value added tax is excluded but non-deductible value added tax
on motor cars acquired is included. No deduction on motor cars acquired is included. No deduction
is made for depreclation, amortizat in or obsolescence. The proceeds of items disposed of during
the year exclude amounts written-off for items scrapped.
Cost of industrial services
his includes amounts payable to other firms for ment, payments for repairs and maintenance and amounts 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
uildings, hire of plant ind and machinery, commercial insurance premiums, bank charges and amounts pai transport, advertising etc. Amounts payable a royalties for the right to use patents, trademarks copyrights etc., manufacturing and quarrying rights

Gross output
In the calculation of gross output the value of total 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 the fall, during the year of stocks of materials etc.) and the cost of industrial services received

Net output per head
dividing the net output per head are derived by persons employed (full by the average number oit
part-time) on ail activities covered by the returns, including
operatives, administrative, technical and cleding employees and working proprietors, but excluding

Gross value added at factor cost
Gross value added at factor
deducting valded at factor cost is calculated by Industrial services (e.g. rent of buildings, hire
 professional sank charges and amounts pald for
transport and post oftice onvertising services, transport and advertising), rates (excluding water
rates) and the cost of licensing motor vehicles.
This estimate of rates) and the cost of licensing motor vehicles.
This estimate of gross value added approaches more
close closely than census net output to the definition
of net output or value added in national accounts of net outp
statistics.

Gross value added at factor cost per head
The figures of gross value added at fact head are derived by dividing the at factor cost per by the average number of persons gross value added
(full and part-times on all activities covered by the the
returns, including operatives, administrative, technical and clerical employees and working
proprietors, but excluding outworkers. Purchases
Purchases
components, semi-manufactured goods and work
materials; of replacement parts and consuma tools not charged to capital account; of packagi all types; of stationery and print materials to be used electricity and water; out to other establishments for the production lishinery or other capital items for the est IIshment's own use; of materials for use by
establishment when working on goods supplied customers; and of food, etc. foods supplied
cor any cante covered by the establishment's return. Transfer ment of the same firm not covered by then mestablishment's corresponding to the estimated selling val
recorded by the other department to transport firms or credited to Amounts payab transport department for dellivery of materlals
excluded, as are all purchases of machinary plant charged to capital account. Purchases goods for merchanting or factoring have be collected separately since 1973. The values sho
exclude VAT. They include, in addition to then actual purchase pricc, the value of packag mater ial charged to the establishment. The val
of returned of returned goods or packaging material return
to suppliers and any trade discounts are Materials purchased duty-paid are Included at the duty-pald 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 the
full delivered cost. If in the firm's accounts
trae transport from docks or airport is not included
the cost of goods purchased, the cost is c.1.f. plus duty (if app I icable). Leasing, rent
and hire purchase charges are excl uded

Sales of goods produced
Sales for the purposes of the annual census
means deliveries on sale of goods made by esta IIshments in the United Kingdom covered by the
inquiry. Sates of goods made for IIshments by outworkers or by other establ ishment from materials given out to them and sales
waste products are included. New building wor
wand Waste products are included. New bulding wor
and machinery or other capital Items produced
establ Ishments for hiring
 regarded as sales, the value included in t
return being that adopted in the establishments capltal asset accounts. Forward sales and cante
takings are excluded. capital asset accounts. Forward sales and cante
takings are excluded. Al sales in the perlod
the inquiry are included Irrespective of when then the inquiry are included irrespective of when the goods were manufactured. Goods produced in one
establithment and transterred elther to ancillary
departments not engaged in production for which departments not enganged in product to ancillary for whic
there are separate accounts, or to anothe return, are of the same firm not covered by sales by the producing
restablishment and valued as far as establishment and valued as far as possible as
they had been sold to an independent purchaser Goods transferred to wholesale or retall selling
the to organisatlons, for which separate accounts are
kept are valued on the same basis.
The value shem kept are valued on the same basis.
The value shown for sales is the "net selling
value" defined as value" defined as the amount (excluting val
added tax) charged to customers whether ex-works or dellivered to customers whether
discounts and anter any deducted. The cost of packing materials
allowance for al lowance for returnable cases is included.
industr les where products attract Excise Dity industries where products attract Exclse Duty
value stated is usually inclusive of duty if dutro-paid and exclusive of duty if sold in bond
exported.

Work done and industrial services rendered
Figures fores for work done represent the amount charg
for work carrled out on materlals supplied by
dustries this heading covers a wide varlety of
divities, for ativities, for example, within the food sector utter packed on commission; within the textile
ndustr les - making up of garments, fur dressing and textile finishing; within printing, and pub-
ishing - preparatory work on type-setting, block laking and binding. Work done is also signiticant
the electrical machinery and heavy engineering the electrical machinery and heavy engineer ing
ndustries, covering erection, instal lotlon and epalr and jobbing work. include exploration work, research and of timber
industriai services rendered include repairs and
Instal lation work, and technical mintenance, Installation work, and tec
masearch and studies for other organisations.
Capital goods produced for establishments' own use
Inclis Indes all work of a capital nature carried Inhis Includes all work of a caplal nature carr led
out during the year by the establishments' own
ont their own use. ir own use.
on-Industrial services rendered
ins includes rents recelved for commercial and
industrial bulldings, amounts charged for hiring out plant, machinery and other goods and amounts
charged to other organisations for the provision of charged to other organisations for the provision of
ransport. It also includes amounts recelved for transport. to use patents, trademarks, copyrights
the right to
etc., manufacturing and quarrying rights and techl|cal "know-how" and
facll|ties as canteens.
coods merchanted or factored
Verchanted goods are those (excluding canteen
sales) sold without having been subjected to any sales) sold
manufacturing process by the seller.
Stocks and work in progress
Values are given of stocks of goods on hand for sale and of materlals, stores and fuel, at the end
of the year of return and of the change dur ing the
tor
forcluding any stocks of goods held year, including any stocks of goods held for
nerchanting or factoring. Work in progress is merchanting or factoring. which have been partially
deflned as matelals whe not
processed by the establishment but which are not processed by the establishment but which are not
usually sold or transferred to another estabusually sold or transferred to another esalues
Ishment without further processing. The values
Include the cost of materlals consumed and labour Include the cost of mater lals consumed and labour
used, together with a margin of overhead costs and used, together with a margin of overhead costs and
proftits. progress payments made to sub-
contractors are excluded and progress payments received
deducted.
Theges and salaries
These are amounts paid during the year to
operatives and to administrative, technical and clerical employees. Payments to working
poropletors, whether called salarles or not, are
oxcluded excluded. The values shown include all overtime
payments, bonuses and commissions, whether pald
reguntar payments, bonuses, and commissions, whether paduction is made for
regularly or not, and
Income tax, insurances, contributory pensions etc Income tax, Insurances, contributory pensions etc.
The value of redundancy payments less any amounts The value of redundancy payments less any amounts
reimbursed from Government sources is included.
The Telmbursed from Government sources is included.
The value of any payments in kind, travelling
oxpenses etc. is excluded.
Remuneration pald to outworker
The remuneration pald to outworkers (1.e. persons employed by the establishment who do the ir work
the ir own homes) is generally on a plece-work
basital their own homes) is generally on a plece-work
basis. Only amounts pald to outworkers whose names
appor appear on the establishment's payroll are included.
Amounts paid to outworkers by sub-contractors Amounts pa
excluded.

Employers' Insurance and welfare contributions
This Item includes employers' contributions to
national insurance and graduated pensions (and/or
earnings related basic contributions under the
social Security Act, 1973) as well as cormerclal insurance premiums to provide pensions, superannuation or other retirement benefits, sisabness ben death $\begin{aligned} & \text { beneflts for employees or former } \\ & \text { or for } \\ & \text { employees or their dependants. Contributions to }\end{aligned}$ employeess or their dependants. Contributions to
the running costs of canteens, soclal centres, the running costs of canteens, social centres, children's and hollday homes, etc. for employees,
former employees and their dependants are also
included.
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