## Business Statistics Office

## PA261

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1978

## Report on the <br> Census of Production <br> Coke ovens and manufactured fuel

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Enquiries:
Business Statistics Office
Business Statisticc
Newport, Gwent
Newport,
NPT 1XG
Newport 56111 (STD code 0633) ext 2455
Telex 497121
Answer Back BSONPT G

Report on the Census of Production 1978

Coke ovens and manufactured fuel

Presented by the Secretary of State for Industry
o Parliament in pursuance of the Statistics of Trade Act 1947 (10 \& 11 Geo. 6 Cha. 39 sec 7 )

List of Industry Reports, etc.

| PA1001 | Introductory notes | PA369. 1 | Electrical equipment for motor vehicles, cycles |
| :---: | :---: | :---: | :---: |
| PA101 | Coal mining |  | and aircraft |
| PA102 | Stone and slate quarrying and mining | PA369.4 | Primary and secondary batteries Electric lamps, electric light fittings, wiring |
| PA103 | Chalk, clay, sand and gravel extraction |  | accessories, etc. |
| PA104 | Petroleum and natural gas | PA370 | Shipbuilding |
| PA109 | Miscellaneous mining and quarrying |  | Wheeled tractor manufacturing |
| PA211 | Grain milling |  | Wheeled tractor manufacturng |
| PA212 | Bread and flour confectionery | PA38 | Motor vehicle manufacturing |
| PA213 | Biscuits | PA381.2 | Trailers, caravans and treight containers |
| PA214 | Bacon curing, meat and fish products | PA382 | Aerospace equipment manufacturing and repairing |
| PA216 | Sugar | PA384 | Locomotives, railway track equipment, railway carriages, |
| PA217 | Cocoa, chocolate and sugar confectionery |  | wagons and trams ${ }^{\text {Engineers' }}$ Small tools and gauges |
| PA218 | Fruit and vegetable products | PA390 | Engineers small tools and gauges |
| PA219 | Animal and poultry foods | PA391 | Hand tools and implements |
| PA221 | Vegetable and animal oils and fats | PA392 | Cutlery, spoons, forks and plated ta |
| PA229.1 | Margarine | PA393 | Bolts, nuts, screws, rivets, etc. |
| PA229.2 | Starch and miscellaneous foods | PA394 | 矿 and |
| PA231 | Brewing and malting | PA | and |
| PA232 | Soft drinks | PA396 | Jewellery and precious metals |
| PA239. | Spirit distilling and compounding | PA399.1 | Metal furniture |
| PA239.2 | sh wines, cider and perry | PA399.5 | Drop forgings, etc. |
| PA240 | Tobacco | PA3999.6 | Metal holl ow ware |
| PA261 | Coke ovens and manufactured fuel | PA399.8 | Miscellaneous metal manufacture |
| PA262 | Mineral oil refining | PA411 | Production of man-made fibres |
| PA263 | Lubricating oils and greases |  | Soinning and doubling on the cotrmade fib |
| PA2771.1 | Inorganic chemicals | PA414 | Woollen and worsted |
| PA271.2 | Organic chemicals Miscellaneous chemicals |  | Jute |
| PA271 | Miscellaneous chemicals ${ }^{\text {Pa }}$ ( ${ }^{\text {Parmaceutical chemicals and preoarations }}$ | PA416 | Ruee twine and net |
| PA272 | Pharmaceutical chemicals and preparations |  | Roope, twine and net ${ }^{\text {Hosiery a }}$ and other knitted goods |
| PA273 | Toilet preparations | PA4177.2 | Hosiery and other knitted goods |
| PA274 | Paint |  | Warp knitting |
| PA275 | Soap and detergents |  |  |
| PA276 | Synthetic resins and plastics materials |  | Carpets |
| PA277 | Syestuff and pigments | PA422.1 | Household textiles and handkerchiefs |
| PA278 | Fertilizers | PA422. 2 | Canvas goods and sacks and other made-up textiles |
| PA279.1 | Polishes | PA423 | Textile finishing |
| PA279.2 | Formulated adhesives, gelatine, etc. | PA429.1 | Asbestos |
| PA279.3 | Explosives and | PA429.2 | Miscellaneous textile industries |
| PA279.4 | Formulated pesticides, etc. | PA431 | Leather (tanning and dressing) and fellm |
| PA279.5 | Printing ink |  |  |
| PA279.6 | Surgical bandages, etc. | PA433 | Fur |
| PA279.7 | Photographic chemical materials | PA44 | Weatherproof outerwear |
| PA311 | Iron and steel (general) | PA442 | Men's and boys tailored outerwear |
| PA312 | Steel tubes | PA443 | Women's and girls' tailored outerwear |
| PA313 |  | PA444 | Overalls and men's shirts, underwear, et |
| PA321 | Aluminium and aluminium alloys | PA445 | Dresses, lingerie, infants' wear, et |
| PA322 | Copper, brass and other copper alloys | PA446 | Hats, caps and millinery |
| PA323 | Miscellaneous base metals | PA449.1 | Corsets and miscellaneous dress industri |
| PA331 | Agricultural machinery lexcept tractors) | PA4499. 2 | Gloves |
| PA332 | Metal-working machine tools | PA450 | Footwear |
| РАЗ33. | Pumps | PA461.1 | Refractory goods |
| PA333. 2 |  | PA461.2 | Building bricks and non-refractory good |
| РАЗ33. 3 | Compressors and fluid power equipment | PA462 | Pottery |
| PA334 | Industrial engines | PA463 | Glass |
| PA335 | Textile machinery and accessories | PA464 | Cement |
| PA336 | Construction and earth-moving equipment | PA469. 1 | Abrasives |
| PA337 | Mechanical handl ing equipment | PA469.2 | Miscelianeous building materials and mineral products |
| PA338 PA339 | Office ma | PA472 | Furniture and upholstery |
| PA339.2 | Printing, bookbinding and paper goods machinery | PA473 | Bedding |
| PA339. 3 |  |  | Shop and office fi |
|  | ventilating and air-conditioning equipment | PA475 | Wooden containers and baske |
| PA339.5 | Scales and weighing machinery an | PA479 | Miscellaneous wood and cork manufactures |
| PA339.7 | Food and drink processing machinery and | PA482. 1 | Cardboard boxes, cartons and fibre-board packing cases |
|  |  | PA482.2 | oducts of paper and associated materials |
| PA339.9 | Miscellaneous (non-electrical) machinery | PA483 | Manufactured sta |
| A34 | Industrial (including process) plant and steelwork | PA484. ${ }^{\text {P4484, }}$ | Miscellaneous manufactures of paper and baticer |
| ${ }_{\text {PA A } 34921} 1$ | Ordnance and small arms |  | Printing, publishing of newspapers and perio |
| PA3499. ${ }^{\text {P/ }}$ | Ball, roller, plain and other bearings ${ }^{\text {Prectiol }}$ | PA489 | printing and publishing |
| PA351 ${ }^{\text {P/ }}$ | Precision chains and other mechanical engineering | PA491 | Rubber |
| PA351 | Photographic and document copy ing equipment |  | Linoleum, plastics floor-covering, leathercl oth, et |
| PA35 | Watches and clocks | PA493 | Brus |
| PA354 | Surgical instruments and appliances Scientific and industrial instruments and systems | PA494.1 | Toys, games and children's carriages |
| PAB64 | Electrical machinery | PA494.3 | Spo |
| 62 | Insulated wires and cables |  | aneous stationers' goods |
| PA363 | Telegraph and telephone apparatus and |  |  |
|  | vioment | PA499. 1 | Musical instruments |
| PA364 | Radio and electronic components | PA499.2 |  |
| 365.1 | Gramophone records and tape recordings |  |  |
| PA365. 2 | Broadcast receiving and sound reproducing | PA601 | Gas |
|  | equipment | 迷 | Wectricity |
| PA367 | Radio, radar and electronic capital goods | PA1002 | Summary tables |

$\begin{array}{ll}\text { PA367 } & \text { Radio, radar and electronic capital goods } \\ \text { PA368 } & \text { Electrical appliances primarily for domestic use }\end{array}$
and aircraft
Primary and
Electric alamps, lectr ric light fittings, wiring
accessories, etc.
Shipbuild ing and marine engineering
Wheeled tractor manufacturing
Motor vehicle manutacturing
Motor cycle, tricycle and pedal cycle manufacturing
Aerospace equipment manufacturing and repairing
Aerospace equipment manufacturing and repairing
Locomotives, railway track equipment, railway carriages
wagons and trams
Engineers' small tools and gauges
Hand tools and implements
Cutiery, spoons, forks and plated tableware, etc.
Bolts, nuts, screws, rivets, etc
Wire and wire manufactures
Cans and metal boxes
lewellery and precious metals
Meta furniture
Dop forgings, etc.
Metal holl
Miscellaneous metal manufacture
Spinning and doubling on the cotton and flax systems
Weaving of cotton, linen and man-made fibres
Jute
Rope, twine and net
Hosiery and other knitted goods
Waro knitting
2 Warre kn
Lace
Carpets
Narrow
Narrow tabrics
Household texties and handkerchiefs
Convas oooods and sacks and other made-up textiles
Canvas goods and
Textile finishing
Asbestos
Miscellaneous textile industries
Leather (tanning and dressing) and fellmongery
Weatherproof outerwear
Women's and girls's'tail ored outerwear
Dresses, lingerie, intantss, wear, e
Corsets
G
Gooves
Footwea
Refractory goods
Building bricks and non-refractory goods
Pottery
Glass
Cement
Miscellaneous building materials and mineral products
Tumber Furniture and upholstery
Bedding, etc.
Shop and office fit
Miscell aneous wood and cork manufactures
Cardboard boxes, cartons and fibre-board packing cases
Packaging products of paper and associated materials
Manufactured stationery
Miscellaneous manufactures of paper and board
Printing, pubishing of newspap
General printing and publishing
Rubber
Linoleum, plastics floor-covering, leathercl oth, etc.
Toys, games and children's carriage
Sports equipment
Miscellaneous stationers' goods
Plastics products
Musical instrument
Miscellaneous manufacturing industries
Construction
Water supply
Summary tables

The information in this report relates to establishments classified to the Coke ovens and manufa
in the Standard Industrial Classification (revised 1968). The activities of the industry include:-
production of hard coke and associated by-products by coke ovens and the production of low temperature coke and other manufacture The prouct whether carbonised or not. Coke ovens forming part of the Gas industry are included in the Gas report (part PA601).

Some units engaged in the activities of this industry are included in the returns of multi-unit establishments classified mainly to the Iron and steel (General) Industry (MLH311, Census report part PA311). Care must be taken in making comparisons between information in this report and quantitive statistics published elsewhere.

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

LIST OF CONTENTS

Table Title Page
No
Output and costs, 1974-1978
Capital expenditure, 1974-1978 3
Stocks and work in progress, 1974-1978
Analysis of establishments by size, 1978 ..... 4-5
Regional distribution of employment, net capital expenditure, net output and gross value added
at factor cost, 1978 ..... 6
Percentage analysis of twelve-month periods covered by returns received from United
Kingdom establishments, 1978$\cdot 7$Percentage analysis of employees, by full and part-time employment and sex, 19777

Output and costs, $1974-1978$
All United Kingdom establishments classified to the industry (a)

|  | Unit | 1974 | 1975 | 1976 | 1977 | 1978 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Enterprises | Number | 15 | 14 | 15 | 16 | 15 |
| Estabi ishments | " | 46 | 43 | 44 | 40 | 38 |
| Sales of goods produced, work done and industrial services rendered and sales of goods merchanted or factored | £ thousand | 302,968 | 299,775 | 370,505 | 370,408 | 418,336 |
| Capital goods produced for establishments' own use | " | 305 | (b) | 644 | 586 | 506 |
| Non-industrial services rendered | " | 171 | 159 | 224 | 89 | 111 |
| Total sales and work done | " | 303,443 | 299,934 | 371,373 | 371,084 | 418,953 |
| Increase during the year, work in progress and goods on hand for sale | " | -15,117 | 50,835 | 40,444 | 31,627 | -7,500 |
| Gross output | " | 288,326 | 350,769 | 411,817 | 402,711 | 411,453 |
| Purchases of materials for use in production, and packaging and fuel and purchases of goods for merchanting or factoring (c) or factoring (c) | " | 210,884 | 281,270 | 319,515 | 301,493 | 303,112 |
| Increase during the year, stocks of materials, stores and fuel | " | 13,211 | 11,097 | 1,508 | -2,019 | 5.246 |
| Cost of industrial services received | " | 3,274 | 4,404 | 5,528 | 5,746 | 6,874 |
| Net output | " | 87,379 | 76,192 | 88,282 | 93,453 | 106,714 |
| Total employment (d) | Thousands | 11.0 | 11.4 | 10.6 | 10.2 | 9.5 |
| Net output per head | £ | 7,914 | 6,683 | 8,351 | 9,168 | 11,257 |
| Payments for non-industrial services |  |  |  |  |  |  |
| Hire of vehicles, plant and machinery (e) | £ thousand | 1,488 | 1.575 | 1.683 | 1.570 | 2,241 |
| Rents of industrial and commercial buildings | " | (e) | (e) | 125 | 184 | 93 |
| Commercial insurance premiums | " | 203 | 347 | 698 | 724 | 826 |
| Bank charges | " | 3 | 6 | (f) | (f) | (f) |
| Other non-industrial services (g) | " | 6.977 | 6,622 | 7,864 | 9,327 | 10.795 |
| Licensing of motor vehicles | " | 2 | 2 | 3 | 5 | 8 |
| Rates, excluding water rates | " | 2.169 | 2.465 | 2,411 | 2,616 | 2,688 |
| Gross value added at factor cost | " | 75,538 | 65,175 | 75,498 | 79,027 | 90,062 |
| Gross value added at factor cost per head | £ | 6,932 | 5,717 | 7,142 | 7,753 | 9,500 |

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census.
(a) Including estimates for establishments not making satisfactory returns, non-responss
(b) Included in sales of goods produced, work done and industrial services rendered and goods merchanted or factored
(c) Including excise duty payable on materials less allowances receivable on materials exported etc
(d) Average number employed, including full and part-time employees (see table 7 ).
(e) For 1974-1975 rents of industrial and commercial buildings were not recorded separately, but included in hire of vehicles, plant and machinery.
(f) Included with commercial insurance premiums.
(g) 1974-1976 figures include the cost of hiring goods vehicles.


| Area | Total employment (b) |  | Net capital expenditure |  | Net <br> output (d) | Gross value added at factor cost (d) | Gross value added at factor cost returned by establishments with 80 per cent or more 80 per cent or more of their employment in the region as a proportion of total factor cost in the region |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Thousands | per cent of United Kingdom | £ thousand | per cent of United Kingdom | £ thousand | £ thousand | percentage |


| Standard regions of <br> England |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $\quad$ North |  |  |  |  |  |  |  |

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census:
(b) Average number employed, including full and part-time employees (see table 7 ) and working proprietors.
(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 of the net output attributable to each address was made by assuming that net output was proportionate to employment. An estimate for each region was obtained by aggregating estimates of

Percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments, 1978

| Accounting year ended |  | Percentage of total returns received | Percentage of total number employed |
| :---: | :---: | :---: | :---: |
| 1978 |  | per cent | per cent |
|  | April (a) | - | - |
|  | May | - | - |
|  | June | - | - |
|  | July | - | - |
|  | August | 3.6 | 0.3 |
|  | September | - | - |
| 1979 | October | - | - |
|  | November | - | - |
|  | December | 17.9 | 17.6 |
|  | January | - | - |
|  | February | - | - |
|  | March (b) | 78.6 | 82.1 |

(a) From 6th April.

Including returns made for twelve-month period ended 1st to 5th April 1979.

TABLE 7
Percentage analysis of employees, by full and part-time employment and sex, 1977(a)

| Sex | Full-time | Part-time | All employees |
| :---: | :---: | :---: | :---: |
|  | per cent | per cent | per cent |
| Male | 96 | - | 96 |
| Female | 3 | 1 | 4 |

Operating ratios, $1977-1978$
All United Kingdom establishments classified to the industry (a)

|  | Unit | 1977 | 1978 |
| :---: | :---: | :---: | :---: |
| Gross output per head | £ | 39,509 | 43,402 |
| Net output per head | £ | 9.168 | 11,257 |
| Gross value added per head | £ | 7,753 | 9.500 |
| Gross value added as a percentage of gross output | \% | 20 | 22 |
| Ratio of gross output to stocks |  | 2.4 | 2.5 |
| Wages and salaries as a percentage of gross value added | \% | 50 | 48 |
| Ratio of operatives to administrative, technical and clerical employees |  | 5.1 | 4.6 |
| Wages and salaries per administrative, technical and clerical employee | £ | 4,338 | 5,371 |
| Wages and salaries per operative | £ | 3,783 | 4,386 |
| Net capital expenditure per head | £ | 820 | 1,195 |
| Net capital expenditure as a percentage of gross value added | \% | 11 | 13 |

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census.

These notes give the main information needed for interpreting the figures in the the census is given in a separate Business Honitor PA 1001 (Introductory Notes) of the Report on the Census of Production, 1978

## ereral information

## hanges made for 1978

hranges made for 1978 is line with similar inquiries being
The Census for 1978 is
onducted in other member countries of the European Economic conmunities.
The census differed from earlier censuses in three respects,
Thas Sempling was introduced for establishments employing 20 to 49
and $a$ sample of smaller units was selected. A new question on and a sample of smaller units was selected. A new question on
and leasing of capital assets was included for 1978 only This will
provide register information for use in related inquiries into leasing. Suppression of information relating to individual undertaking Suppression of () of the Statitstics of Trade Act 1947 statess
Section $9(5)$ (b)
The following provisions shall have effect with respect to any
 ormation obtained under the foregoing provisions of this Act
in compiling any such report, summary or communication th in compiling any such report, summary or communication the
competent authority shall so arrange it as to prevent any particulars published thereen from being identified as being particulars relating to any individual person or undertaking
exceopt with the previous consent in writing of that person or the except with the previous consent in writitg 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 total quantity or value of any articles produced, sold or delivered; so
however, that before disclosing any such total the competen however, that before disclosing any such total the competent
authority shall have regard to any reoresentations made to them by any person who alleges that the disclosure thereof
would enable particulars relating to him or to an undertaking would enable particulars relating to him or to an undertakin carried on by him to be deduced from the total disclosed"
a figure involved disclosure the contributor concerned wa metimes asked to give permission for its publication. In the
jority of cases permission was given. When it was refused and mere contributors were not approached the figure has been mopessed, either by combining it with other fi
gional tables, by omitting the figure altogether.
ymbols used
e following symbols are used throughout the PA series of siness Monitors
not available
nil or less than half the final digit shown
figures cannot be shown owing to the risk of disclosing intormation about individual enterprises.

## unding of figures

hares in the tables have, where necessary, been rounded to the fearest final digit. Where figures have been so rounded, the sum
of the constituent items may not always agree exactly with the the constituent items may not always agree exactly with the
tral shown.

## dustrial classification

fie United Kingdom Standard Industrial Classification (SIC) was
iist issued in 1948 and was subsequently revised in 1958 and 1968. It exists to promote uniformity and comparability in the ificial statistics of the United Kingdom. The general principles
Dollowed are those of the International Standard Industrial Classification of all Economic Activitios of the United Natrians
Statistical Office but the United Kingdom SIC reflects the Statistical Office but the United Kingdom SIC reflects the
oranisation and structure of industry and trade as it exists in the oranisation and structure of industry and trade as it exists in the
United Kingdom. The SIC is a classification by activity and is pota commodity classification. However, an index of all commodity eedings for which sales data are provided in the Qua
Monitors, is published in Business Monitor PQ 1000 .

Statistical units
Thestar
Which is defined unit for the purpose of the Census is the establishment mich is defined in the SIC as the smallest unit which can provide
ee information normally required for an economic census, for
example, employment, expenses, turnover, capital formation. Usually the principal activitites carried on in an establishment fall within a
single heading of the classification (eg steel making or sugar single heading of the classification (eg steel making or sugar
efining). Typically the establishment embraces all the activities carried on at a single address eg a mine or a factory, including those which are ancillary to the principal activities. Frequently distinct
activities characteristic of different industries are carried on at one activities characteristic of different industries are carried on at on
address, but normally these are not classified separately and th address, but normally these are not classified separately and the
whole establishment is classified according to the main activity. It however, the required range of data can be provided for each activity, each is taken to constitute a separate establishment.
Sometimes activities which are conducted as a single business are Sometimes activities which are conducted as a single business are
carried on at a number of addresses. Where this is so, businesses are sked to provide the full range of information in respect of each ddress, whether or not the activities are different. Their activities may, however, be integrated to such an extent that they constitute
a single establishment. In the latter case the establishment is defined io cover the combined activities at these addresses (termed loca nits). Separate figures are obtained of employment and net capita expenditure at each unit in order to compile regional tables. Efforts
are made by the Business Statistics Office (BSO) to ensure, by egotiating with respondents, that the return from an establishment does not cover local units in more than one of the countries of the United Kingdom.
Establishments are asked to exclude from their returns particulars elating to any department not engaged in production eg merchanting, ransport, warehousing, for which they keep a separate set o treated as sales and respondents are asked to value them as far as
 ey are Particulars relating to head offices mainly engaged in the admin stration of the production units within the scope of the census were included. Where more than one return was made the information respect of the head office was apportioned among them For certain purposes in the annual censuses of production
(especially the enterprise analyses of Business Monitor PA 1002) related establishments are combined. An enterprise group is defined as a business consisting of either a single establishment or two o more establishments under common ownership or control. Bringing
together establishments into enterprise groups is also necessary fo the purpose of ensuring that there will be no disclosure of the activities of any one enterprise group. Information about th
relationship of establishments, the changing structure of groups of companies and about common ownership links is obtained from many sources, including the Stock Exchange Year Book, company eports, press reports and information supolied by individua

THE REGISTER
The register permits a questionnaire to be sent direct to the
reporting establishment on which the latter can include information eporting establishment on which the latter can include information The inquiries provide a major source of information for keeping the register continuously up-to-date and act as a check on its detail and structure. For the establishments on the register making returns
to the quarterly inquiries, the industrial classification is derived from an analysis of their sales of commodities and is reviewed annually. Employment data are entered on the register from returns to the annual census of production. In cases where an establishment does based on information provided by the Department of Employment from the annual censuses of employment. New additions to the register are obtained from various sources including the Department of Employment and HM Customs and Excise. The 1973 Finance Act
allows the latter to pass lists of businesses registered for VAT to the BSO. Where necessary details are sought directly from new businesses. Units which cease to trade are removed from the live register.
Coverage
In recent
n recent censuses returns have been required from all establishments emploving 20 or more. For the 1978 Census in 68 selected
manufacturing industries coverage of establishments in the 20 to 49 employment size band has been reduced to a 1 in 2 sample. This change has relieved some 5,800 firms of the need to complete a census return. The Census has included for the first time a smal
sample (around 10 per cent) of units employing 11 to 19 to meet an EEC requirement to collect a limited range of data from smaller

Regions The regions defined in Table 5 take account of the boundary
hanges arising out of the Local Government Act 1972 and the Local Government Act (Scotland) 1973. These changes came into effect in
Scotland.

TERMS USED IN THE CENSUS REPORT
Average number employed
stablishments were required to state the average number of persons required
(a)
administrative, technical and clerical emplovees
(b) all other employees (operatives)

Averages could be calculated from the figures relating to the last week of each calendar month. Establishments were also required
to state the number of working proprietors where appropriate and these are included in working proprietrs where appropriate and these are included in total employment figures. Full-time and
part-time employees are included but outworkers (ie persons par-lime en by establishments who worked in their own homes etc on
emplored sy
materias supolied by the establ ishment) are excluded. The figures materials supplied by the establishment) are excluded. The figures
include persons engaged on merchanting or factoring and canteen nclude 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
nsurance purposes and members of their families who worked in The bunce purposes and members of their families who worked in
the without receiving 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 receit are excluded. Directors working in the business but not in receipt
of definite wage, salary or commission are included under this
heading: directors paid by fee only are not included eading: directors paid by fee only are not included

## Employee

Administrative, technical and clerical employees include directors receipt of a definite wage, salary or commission, managers and works foremen; research and design employees (other than
operatives) ; draughtsmen, editorial staff, advertising staff, travellers and all office employees.
pperatives include all other classes of employees, that is, broadly speaking, all manual wage earners. They include operatives employed power stations, transport (including roundsmen), warehouses
stores, shops and canteens, inspectors, maintenance workers and cleaners. Operatives engaged in outside work of erecting, fitting etc are also included, but outworkers are excluded.

Capital expenditure
Capital expend iture
apital expenditure during the vear 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 Value of capital expenditure amounts received or expected to be received in grants or allowances from the Government or any
statutory body or local authority. Establishments with 100 or statutory body or local authority. Establishments with 100 or
more employees were asked to include a total net capital expenditure figure for each calendar year and to state whether any the investment shown in cost of new building work, vehicles or plant
leasing.
(a) New building work
This represents the cos

This represents the cost incurred during the year of new building
and other constructional work to be used in connection with the and other constructional work to be used in connection with the
business covered by the return. The value is that charged to capital account during the year of return; it includes expenditure
on new buildings and on the extension or reconstruction of old buildings, the value of works of a capital nature carried out by the establishments's own staff and the cost of any newly constructed
buildings purchased. Figures shown include legal charges, stamp buildings purchased. Figures 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 premium payable for leaseholds acauired lexcluding the value of assets acquired in taking over an existing business), and the amounts receivable for freeholds or leaseholds the year of return.
c) Plant, machinery and vehicles

The items shown are the value of plant and machinery and on
vehicles accuired, both new and second-hand, and the amount received for items disposed of during the year. The value of plan and machinery acquired includes plant, etc which firms produce
for their own use in connection with ferturn. The value of plant, etc acquired is the expenditure charge
ret to capital account during the year of return less any discounts received, but including the cost of transport and installation
Deductible value added tax is excluded but non-deductible value Deductible value added tax is excluded but non-deductible value
added tax on motor cars acquired is included. No deduction made for depreciation, amortization or obsolescence. The proceeds
of items disposed of during the year exclude amounts wite of items disposed of during the year exclude amounts written-ol
for items scrapped.

## Cost of industrial services

This includes amounts payable to other firms for work done on maintenance (including those in respect of rented buildings) and amounts paid to other firms for contracts which have bee
sublet. Payments to outworkers are excluded

Cost of non-industrial services
This includes rents of industrial and commercial buildings, hi
of plant, machinery and vehicles (excluding vehicles hired with of parnt, machinery and vehicles (excluding vehicles hired with
drivers , commercial insurance premiums, bank charges and amount paid for professional services, post office services, transport (withi the United Kingdom), advertising etc. Amounts payable on royalties
for the right to use patents, trademarks, copyrights etc. ufacturing and quarrying rights and technical "know-how" also included.

Gross output
In the calculation of gross output the value of total sales and wo
done is increased by the rise (or reduced by the fall) during 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 year in the value of work in progress and goods on hand to
sale.
Net output
Net output, a customary census measure, is 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 ett
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 of persons employed (full and
part-time) on all activities covered by the returns, including operatives, administrative, technical and clerical employees and
working proprietors, but excluding outworkers.

Gross value added at factor cost
Gross value added at factor cost is calculated by deducting from
net output the cost of non-industrial services ee rent of huildined net outpul the cost
hire of plant, machinery and vehicles (excluding vehicles hired hire of plant, machinery and venicles (exclucing venicles hired
with drivers). commercial insurance premiums, bank charges and amounts paid for professional services, post office services, transpor
(within the United Kingalom) and (within the United Kingdom) and advertising, rates (excluding
water rates) and the cost of licensing motor vehicles. This estimate water rates) and the cost of licensing motor venicles. This estimate
of gross value added approaches more closely than census net output to the definition of net output or value added in nation accounts statistics.

Gross value added at factor cost per head
The figures of gross value added at factor
The figures of gross value added at factor cost per head are derived by dividing the gross value added by the average number persons employed (full and part-time) on all activities covered
by the returns, including operatives, administrative, technical and clerical employees and working proprietors, but excluding of workers.
Purchases
Purchases include the cost of raw materials, components, semimanufactured goods and work shop materials; of replacement parts
and consumable tools not charged to capital account: of packaging and consumabe tools not charged to capital account: of packagin
materials of all types; of stationery and printed matter; of fuel. electricity and water, of materials to be used by the establishment or given out to other, establishments for the production of machinery
or or ther canital it items for the estal ishment's for use by the establishment when working on goods supplied b
ustomers, and of food, etc for any canteen covered by the
and establishment's deturn. Transters of goods to the establishment
from another tepertment of tame firm not covered by the
 extimated selling value recorded by the or the tre firm's own transpor apeartment tor delivery of materials are excluded, as are
der purchases of goods for merchanting or factoring have been collected separately since 1973. The values shown exclude VAT Iney inctude,
t packaging material charged to the establishment. The value of peturned goods or packaging material returned to suppliers and an rade eliscounts are excluded. Materials purchased duty-paid ar
dudud at their duty-paid value, less any drawback, rebate the cost of transport is included only if it is included with the wrchase price in the firm's accounts. Imported goods are included at their full delivered cost. If in the firm's accounts the transpon he cost is entered at cif plus duty (if applicable). Leasing mining and hire purchase charges are excluded.
Sales of goods produce
Sales for the purposes of the annual censuses means deliveries on jods made by establishments in the United Kingdom
the inquiry. Sales of goods made for these establishments kers or by other establishments from materials siven out no sales of waste products are included. New building
machinery or other capital items produced by establishhiring out or leasing are regarded as sales, the value
the return being that adopted in the estalishments et accounts. Forward sales and canteen takings are excluded in the period of the inquiry are included irrespective of hen the goods were manufactured. Goods produced in one
stablishment and transferred either to ancillary departments not hagade in production for which there are separate accounts, or to
another establishment of the same firm not covered by the return, are treated as sales by the producing establishment and valued as
tar as possible as if they had been sold to an independent purchaser transferred to whol esale or retail selling organisations, for parate accounts are kept are valued on the same basis. alue shown for sales is the "net selling value" defined as the
ant (excluding VAT) charged to customers whether on an or delivered basis, atter any trade discounts and agents'
ons have been deducted. The cost of packing materia's 5alowance for returnable cases is included. In industries where duty if sold duty-paid and exclusive of duty if sold in bond
work done and industrial services rendered
Figures for work done represent the amount charged for work
caried out on materials supplied by a customer and include repair work. Within certain industries this heading covers a wide variety of ommission; within the textile ind ustries - making up of garments,
ur dressing and textile finishing; within printing and publishing reparatory work on type-setting, block making and binding. Work
one is also significant in the electrical machinery and heavy cone is also significant in the electrical machinery and heavy
engineering industries, covering erection, installation and repair and lobing work. Other activities with in this heading include exploration work, research and development, glass cutting and dressing and
laning of timber. Industrial services rendered include repairs and maintenance, insta-
llation work, and technical research and studies for other

Gapital goods produced for establishments' own use
Capial goods produced for establishments own use
This includes all work of a capital nature carried out during the
vear by the establishments' own staff tor their own use.

Non-industrial services rendered
This includes rents received for commercial and industrial build ings, mounts charged for hiring out plant, machinery and vehicles and other goods and amounts charged to other organisations for the
provision of transport. It also includes amounts received for the right to use patents, trademarks, copyrights etc, manufacturing and quarrying rights and technical "know-how" and revenue from Goods merchanted or factored
Merchanted goods are those (excluding canteen sales) sold without
having been subjected to any manufacturing process by the seller

Stocks and work in progress
Values are given of stocks of goods on hand for sale and o materials, stores and fuel, at the end of the year of return and o merchanting or factoring. Work in progress is defined as material which have been partially processed by the establishment but which are not usually sold or transferred to another establishment withou
further processing. The values include the cost of material urther processing. The values include the cost of materials contractors are excluded and progress payments received from other organisations are not deducted.

Wages and salaries
These are amounts paid during the year to operatives and to These are amounts paid during the year to operatives and to
administrative, technical and clerical employees. Payments to administrative, technical and clerical employees. Payments to
working proprietors, whether called salaries or not, are excluded The values shown include all overtime payments, bonuses and commissions, whether paid regularly or not, and no deduction is yalue of redundancy payments less any amounts reimbursed from Government sources is included. The value of any pay ments in kind. travelling expenses etc is included.

Remuneration paid to outworkers
The remuneration paid to outworkers (ie persons employed by the establishment who do their work in their own homes) is whose names poear on the establishment's payroll are include whose names appear on the establishment's payroll are included.
Amounts paid to outworkers by sub-contractors are excluded.

Employers' insurance and welfare contributions
This item includes employers' contributions to national insurance
under the Social Security Pensions Act, 1975 as well as commercial insurance premiums to provide pensions, superannuation or other retirement benefits, sickness benefits,personal accident benefits, disability or death, benefits for employees or former employees or their dependants. Contributions to the running costs of canteens, social centres, children's and holiday homes, etc for employees,
former employees and their dependants are also included.

Operating ratios
The operating ratios shown were obtained by dividing the est imate of the industry total for the quantity shown in the numerator by the These estimates cover all establishments classified to each industry. including not selected establishments and non-respondents. Within an industry, it is possible to compare ratios for an ind ividual firm with the ratios shown for the relevant industry. However, it is important
to bear in mind that various factors may affect the results - for example, differences in definitions, treatment of depreciation (which is not identified in the census datal and varying practice with regard
to stock valuation may affect comparability in some respects.
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