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## Report on the Census of Production 1976

## Iron and steel (general)

Presented by the Secretary of State for Industry to Parliament in pursuance of the Statistics of Trade Act 1947 (10 \& 11 Geo. 6 Cha. 39 sec 7)
Coal mining
Stone and slate
Stone and slate quarrying and mining
Chalk, clay, sand and gravel extraction
Chalk, Clay, sand and grav
Petroleum and natural gas
Miscellaneous mining and quarrying
Miscellaneous mining and quar
Grain milling
Bread and flour confectionery
Bread and flour confectionery
Biscuits
Bacon curing, meat and fish produc
Milk and milk products
Sugar
Cocoa, chocolate and sugar confectionery
Fruit and vegetable products
Animal and poultry foods
Animal and poultry toods
Vegetable and animal oils and
Margarine
Starch and miscellaneous foods
Brewing and malt ting
Soft drinks
Soirit distilling and compounding
British wines, cider and perry
Tobacco
Coke ovens and manufactured fu
Lubricating oils and greases
Inorganic chemicals
Organic chemicals
Miscellaneous chemicals
rical chemicals and preparations

| Toilet preparations |
| :--- |
| Paint |

    Soap and detergents
    Synthetic resins and plastics materials and
Synthetic rubber
Dyestuff and pigments

| Fertilizers |
| :--- |

    Polishes
    Formulated adhesives, gelatine, etc.
Formulated pesticides, etc.
Surgical bandages, etc
Hootographic chemical materials
Steel tubes
Iron castings
Aluminium and aluminium alloys
Copper, brass and other copper alloys
Misper, brass and other co
Agricultural machinery lexcept tractors)
Pumps
Compressors and fluid power equipmet
Industrial engines
Coxntruction and eart accessories
Mechanical handling equipment
Office machinery
Mining machinery
12 Printing. bookbinding and paper goods m
.1 Refrierating machinery, space-heating,
Refrigerating machinery, space--heating,
ventilating and air-conditioning equipment
Scales and weighing machinery and portable
5 Scales and wei
Food and drink processing machinery and
packaging and bottling machinery
Miscellaneous (non-electrical) mach
Industrial (including process) plant and stelwork
Ordnance and small arms
Precision chains and other mechanical engineerin
Phit and and
Photographic and document copying
Watches and clocks
Surgical instruments and appliances
Scientific and industrial instruments and systems
Scientific and industria
Electrical machinery
Electrical machinery
Telegraph and telephone apparatus and
equipment
Radio and electronic components
Gramophone records and tape recordings
Broadcast ereciving and sound reproducing
equinment
equipment
Electronic $\mathbf{c}$

$\rightarrow$| PA366 |
| :---: |
| PAB67 |
| PA368 |

Electronic computers
Radio, radar and electronic capital goods
Radio, radar and electronic capital goods
Electrical appliances primarily for domestic use

PA369. 1
Electrical et
and aircraft
and aircrat equipment for motor vehicles, cycles
PA369. 2
PA369. 4
Primary and secondary batteries
Electric lamps, electric light fittings, wiring
Electric lamps, electric light fittings, w
accessorise etc.
Shibsuilin and marine engineering
Wheeled tractor manufacturing
Shipbuilding and marine engine
Wheeld tractor manufacturing
Moetor vehicter mannuacacturing
Trailers, caravans und freight containers
Trailers, caravans and freight containers
Motor cycle, tricycle and pedal cycle manufacturing
Aerospace equipment many
Maters cycle, tricycle and pedal cycle manufacturing
Aerospace equipment manufacturing and repairing
Locomotives, railway track equioment, railway carriag
Locomotives. railw
wagons and trams
Engineers'
wagons and trams
Engineers' small tools and gauges
Hand
Hand tools and implements
Cutiery spoons, fors and plated tableware, etc.
Bol ts,
Cutlery, spoons, orks and plat.
Bolts. nuts.screws, ivets, ett.
Wire and wire manufactures
Wire and wire manuuta
Cans and metal boxes
Cans and metal boxes
Jewellery and precious metals
Jevellery and pre
Metal furniture
Metal furniture
Drop forgings, et
Metal holiow ware
Metal hollow ware
Miscellaneous metal manufacture
Miscellaneous metal manufacture
Production of man-made fibres
Production of man-made fibres
Spinning and doubling on the cotton and flax systems
Spinning and doubling on the cotton and flax sy
Weaving of cotton, linen and man-made fibres
Weaving of cotton, linen
Woollen and worsted
Woillen
Jute
Rope
Rope, twine and net
Hosiery and other knitted goods
Hosiery and ot
Warp knitting
Lace
Lace knit
Carpets
Carpets
Narrow fabrics
Household textiles and handkerchiefs
Canvas goods and sacks and other made-up textiles
Canvas goods and sacks and other made-up textiles
Textile tinishing
Asbestos
Miscellaneous textile industries
Miscellaneous textile industries
Leather (tanning and dressing) and fellmongery
Leather Itanni
Leather goods
Fur
Leather goods
Fur
Weatheroroof outerwear
Men's and boys' tailored outer
Meatherprobol outerwear
Men's and boys tail ored outerwear
Women's and girls' tailored
Women's and girrs's tailored outerwear
Overalls and men's shirts, underwear
Women's and girls' tailored outerwear
Overalls and men's shirts, underwear, eto
Dresses, ingerie, intants' wear, etc.
Hats, caps and millinery
Corsets and miscellaneous dress industries
Corsets and
Gloves
Footwear
Footwear
Refractory goods
Retractory goods
Building bricks and non-refractory goods
2 Building b
Pottery
Glass
Cement
Glass
Cement
Abrasives
Abrasives
Miscellareous bullding ma
Fimber
Funiture and
Furniture and
Bedding, etc.
Shop and office fitting
Shop and office fitting
Wooden containers and baskets
Miscellaneous wood and cork
Miscell aneous wood and cork manufactures
Paper and board
Paper and board
Cardboard boxes, cartons and fibre-board packing cases
Packaging products of paper and associated materials
Pack kaging boxoducs, cart of of ans and fibere-board packing associated material
Manutactured stationery
Manutactured stationery
Wallcoverings
Miscellaneous manufactures of paper and board
Miscellaneous manufactures of paper and board
Printing, publishing of newspapars and periodicals
Printing, publishing of newspaper
General printing and publishing
Rubber
Lubber. plastics floor-covering, leathercloth, etc
Linushes and brooms
Rubber
Linoleum, plastics floor-covering, lea
Brushes and brooms
Toys, games and children's carriages
Toys. games and chil
3 Sports equipment
Miscellaneous stationers' goods
Pistal
Miscellaneous stationers' goods
Plastics products
Plastics products
Musical instruments
2 Musical instruments
PA499. 2 Miscellaneous
PA500 Construction
PA601 Gas
PA601
PA602
PA603
PA603
PA1002
Watrer supply
Pummary tables

The information in this report relates to establishments classified to the Iron and steel (general) industry, minimum list heading 311 in the Standard Industrial Classification (revised 1968). The activivities of the industry include: Manufacturing wrought iron at wrought iron works, including puddl ing furnaces, and steel. It includes establishments engaged in the

production of pig iron (in integrated steel workss) ferro-manganese and spiegele eisen at blast furnaces (including ore preparation plants); making alloy or carbon steel in furnaces or converters; rolling (including re-rolling and cold rolling) steel into semi-finished or finished forms; the production of castings in steel foundries; the production of railway and tramway tyres, wheels and axles, points, switches and crossings, colliery arches; bright bars and heavy forgings; steel plates and sheets (including coated and corrugated sheets) in cut lengths | and crossings, colierl |
| :--- |
| or coils, and of tinplate, terneplate and blackplate and semi-finished material for conversion into tubes and wire. Steel rolls for metal | rolling mills and for other machinery are excluded as is the production of tubes, wire, drop forgings, drop stampings and hot pressings.

In interpreting the data in the tables it is essential to bear
In interpresing the data in the tables it is essential to bear

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at factor cost, 1976 ..... 6
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Percentage analysis of employees, by full and part-time employment and sex, 1976 ..... 7

Output and costs, 1973-1976

|  | Unit | 1973 | 1974 | 1975 | 1976 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Enterprises | Number | 365 | 412 | 458 | 517 |
| Establishments | " | 499 | 549 | 607 | 661 |
| Sales of goods produced | f thousand | 2,576,607 | 3,352,097 | 3,415,189 | 4,285,024 |
| Receipts for work done and industrial services rendered | " | (b) | (b) | (b) | 16,192 |
| Capital goods produced for establishments' own use | " | 6,528 | 4,314 | 8,669 | 10.760 |
| Non-industrial services rendered | " | 5,944 | 7,222 | 13,303 | 8,353 |
| Goods merchanted or factored | " | 17,195 | 19,801 | 26,781 | 28,403 |
| Total sales and work done | " | 2,606,274 | 3,383,435 | 3,463,943 | 4,348,733 |
| Increase during the year, work in progress and goods on hand for sale | " | -14,796 | 143,298 | 39,377 | 213,308 |
| Gross output | " | 2,591,478 | 3,526,733 | 3,503,320 | 4,562,041 |
| Purchases of materials for use in production, and packaging and fuel | " | 1,574,604 | 2,137,814 | 2,325,099 | 3,187,513 |
| Purchases of goods for merchanting or factoring | " | 15,561 | 16,193 | 23,979 | 24,875 |
| Increase during the year, stocks of materials, stores and fuel | " | 31,108 | 145,766 | 47,955 | 190,987 |
| Cost of industrial services received | " | 70,151 | 104,112 | 94,669 | 119.015 |
| Net output | " | 962,270 | 1,414,379 | 1,107,527 | 1,421,626 |
| Total employment (c) | Thousands | 246.7 | 248.4 | 241.4 | 233.0 |
| Net output per head | £ | 3,900 | 5,695 | 4,588 | 6.102 |
| Payments for non-industrial services |  |  |  |  |  |
| Rents, hire of plant and machinery (d)(e) | £ thousand | 19.783 | 23,869 | 24,063 | (f) |
| Commercial insurance premiums | " | 4.761 | 5,111 | 6,391 | 8,577 |
| Bank charges | " | 552 | 641 | 1,115 | 1,322 |
| Other non-industrial services (g) | " | 76,273 | 93,312 | 93,798 | 157,148 |
| Licensing of motor vehicles | " | 306 | 309 | 474 | 499 |
| Rates, excluding water rates | " | 23,716 | 32,116 | 36,548 | 41,159 |
| Gross value added at factor cost | " | 836,879 | 1,259,020 | 945,138 | 1,212,920 |
| Gross value added at factor cost per head | £ | 3,392 | 5,069 | 3,915 | 5,206 |

[^0]Caital expenditure, 1973-1976
Capital expenditure, 1973-1976
All United Kingdom establishments classified to the industry (a) (b)
All United Kingdom establishments classified to the industry (a) (b)

|  | 1973 | 1974 | 1975 | 1976 |
| :---: | :---: | :---: | :---: | :---: |
| Land and build ings |  |  |  |  |
| New building work | 20,532 | 51,848 | 76.734 | 70,871 |
| Land and existing buildings |  |  |  |  |
| Acquisitions | 1,107 | 2,421 | 3,517 | 1.805 |
| Disposals | 2,123 | 4,481 | 2,261 | 779 |
| Vehicles |  |  |  |  |
| Acquisitions |  |  |  |  |
| Motor cars Other vehicles | 1.872 1.002 | $\begin{gathered} 2,505) \\ 2,040 \end{gathered}$ | 4,790 | 6,600 |
| Disposals |  |  |  |  |
| Motor cars Other vehicles | 862 186 | $\begin{aligned} & 853) \\ & 213) \end{aligned}$ | 1,213 | 1.585 |
| Plant and machinery |  |  |  |  |
| Acquisitions | 173,558 | 273,978 | 418,377 | 470,113 |
| Disposals | 2,921 | 3,746 | 7.137 | 2,849 |
| Total net capital expenditure | 191,979 | 323,499 | 492,806 | 544,177 |

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 with in the industry.
Capital expenditure in respect of manufacturing establishments where production had not commenced before the end of the year, is
included.

TABLE 3
Stocks and work in progress, 1973-1976
All United Kingdom establistan
All United Kingdom establ lishments classified to the industry (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.

Analysis of establishments by size, 1976
Analysis of establishments by size, 1976
All United Kingdom establishments classified to the industry (a)
$\left.\begin{array}{lllllllllll}\hline \begin{array}{l}\text { Size } \\ \text { group } \\ \text { (b) }\end{array} & \begin{array}{l}\text { Estab- }\end{array} & \begin{array}{l}\text { Enter- } \\ \text { lish- } \\ \text { ments }\end{array} & & \text { Employment } \\ \text { (c) }\end{array}\right)$

| $1-10$ | 225 | 222 | $1,132)$ |  |  |  |  |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | :--- |
| $11-19$ | 66 | 65 | $940)$ |  |  |  |  |  |  |
| $20-49$ | 100 | 98 | $3,301)$ | 8,196 | 2,678 | 24,029 | 2,932 | 8,925 | 3,333 |
| $50-99$ | 83 | 69 | $5,742)$ |  |  |  |  |  |  |
| $100-199$ | 67 | 59 | 9,759 | 7,455 | 2,298 | 22,408 | 3,006 | 7,896 | 3,436 |
| $200-299$ | 38 | 34 | 8,949 | 6,747 | 2,201 | 19,495 | 2,889 | 7,568 | 3,438 |
| $300-399$ | 21 | 18 | 7,262 | 5,509 | 1,748 | 17,788 | 3,229 | 5,963 | 3,411 |
| $400-499$ | 11 | 10 | 4,907 | 3,691 | 1,216 | 12,756 | 3,320 | 3,753 | 3,087 |
| $500-749$ | 9 | 7 | 5,782 | 4,158 | 1,624 | 13,400 | 3,223 | 5,582 | 3,437 |
| $750-999$ | 6 | 6 | 5,273 | 3,925 | 1,348 | 13,797 | 3,515 | 5,136 | 3,810 |
| $1,000-1,499$ | 10 | 7 | 11,773 | 8,479 | 3,294 | 26,046 | 3,072 | 10,705 | 3,250 |
| 1,500 and over | 25 | 8 | 168,171 | 124,085 | 44,086 | 465,922 | 3,755 | 187,097 | 4,244 |


| Total | 661 | 517 | 232,991 | 172,245 | 60,493 | 615,141 | 3,571 | 242,625 | 4,011 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

(a) Including 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

| 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 year |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | $\begin{aligned} & \text { per } \\ & \text { head } \end{aligned}$ | Total | $\begin{aligned} & \text { per } \\ & \text { head } \end{aligned}$ |  |  |
| £ thousand | £ thousand | £ thousand | £ | £ thousand | £ | f thousand | £ thousand |
| 257,128 | 261,879 | 75,435 | 6.787 | (j) | (j) | 10,314 | 48,026 |
| 241,399 | 246,941 | 70.804 | 7,255 | 128,553(j) | 6,158(j) | 11,017 | 45,954 |
| 196,425 | 200,586 | 61,901 | 6,917 | 54,008 | 6.035 | 6,382 | 36,092 |
| 121,595 | 125,568 | 52,858 | 7.279 | 47,790 | 6,581 | 9,072 | 29,808 |
| 85,136 | 87.319 | 28,016 | 5,709 | 24,784 | 5,051 | 4,392 | 17.157 |
| 107,866 | 107,958 | 28,555 | 4,939 | 23,932 | 4,139 | 4,258 | 27,241 |
| 99,679 | 105,873 | 41,923 | 7.951 | 38,276 | 7,259 | 3,128 | 32,820 |
| 202,190 | 208,426 | 93,067 | 7,905 | 83,747 | 7.113 | 6,064 | 50,010 |
| 3,037,314 | 3,217,490 | 969,067 | 5,762 | 811,831 | 4,827 | 489,549 | 987,131 |


| $4,348,733$ | $4,562,041$ | $1,421,626$ | 6,102 | $1,212,920$ | 5,206 | 544,177 | $1,274,238$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |


was El thousana.
Sales of goods produced, capital goods manufactured, buildings constructed by establishments for their own use, work/done,
industrial and non-industrial services rendered and merchanted goods.
New build ing 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 emper and aross value added at factor cost, 1976 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 |
|  | $\overline{\text { Thousands }}$ | per cent of United Kingdom |  |  | £ thousand | per cent of <br> United <br> Kingdom | £ thousand | f thousand |  |
| Standard regions of England |  |  |  |  |  |  |  |
| North | 36.6 | 15.7 | 161,846 | 29.7 | * | * | * |
| Yorkshire and Humberside | 71.2 | 30.6 | 107,049 | 19.7 | 274,472 | 228,071 | 77.3 |
| East Midlands | 3.2 | 1.4 | 1,823 | 0.3 | 11,180 | 9,901 | 73.1 |
| East Anglia | 0.3 | 0.1 | 131 | - | * | * | * |
| South East | 3.3 | 1.4 | 1,179 | 0.2 | 11,701 | 10,541 | 56.0 |
| South West | 0.9 | 0.4 | 385 | 0.1 | 2,214 | 1,867 | 46.6 |
| West Midands | 27.0 | 11.6 | 16,001 | 2.9 | 156,291 | 136,219 | 78.6 |
| North West | 6.9 | 3.0 | 4.191 | 0.8 | 18.057 | 16.158 | 41.6 |
| England | 149.4 | 64.1 | 292,605 | 53.8 | 671,694 | 573,998 | 79.2 |
| Wales | * | * | * | * | * | * | * |
| Scotland | * | * | * | * | * | * | * |
| Great Britain | 233.0 | 100.0 | 544,177 | 100.0 | 1,222,273 | 1,040,853 | 86.3 |
| Northern Ireland | - | - | - | - | - | - | - |
| Unallocated (e) | - | - | - | - | 199,353 | 172,068 | - |
| United Kingdom (b) | $233.0{ }^{\text {Mosa }}$ | 100.0 | 544,177 | 100.0 | 1,421,626 | 1,212,920 |  |

(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 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 employment at 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 ana
persons, 1976

| Accounting year ended |  |  | Percentage of total returns received |  | Percentage of total number employed |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1976 |  |  | per cent |  | per cent |
|  | April (a) |  | 2.6 |  | 0.3 |
|  | May |  | 2.3 |  | 0.3 |
|  | June |  | 3.0 |  | 2.8 |
|  | July |  | 4.1 |  | 0.8 |
|  | August |  | 1.9 |  | 0.2 |
|  | September |  | 9.0 |  | 3.0 |
|  | October |  | 4.6 |  | 2.7 |
|  | November |  | 1.1 |  | 0.0 |
| 1977 | December |  | 29.3 |  | 6.9 |
|  | January |  | 8.3 |  | 9.1 |
|  | February |  | 1.9 |  | 0.2 |
|  | March (b) |  | 32.0 |  | 73.7 |
| (a) From 6th April. |  |  |  |  |  |
| (b) Includ ing 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 |
|  |  | per cent |  | per cent | per cent |
| Male |  | 91 |  | - | 91 |
| Female |  | 7 |  | 1 | 8 |

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

Notes
These notes give the main information needed for Monitors: more detailed information about the census is given in a separate Business Monitor A1001 (Introductory Notes) of the Report on the
general information
Changes made for 1976 is ine with similar
The Census for 1976 is in line The Census for 1976 is in line with similar
inquirites being conducted in other member countries of the European Economic Communities. There was a small number of changes in the scope of the
industry reports compared with 1975. These include separate headings for:
Sales of goods produced
Recelpts for work done and industrial services rendered
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 states - "The foct with respect to any report, summary or other communication to the public of information obtained under the foregoing provisions of this Act in complifing any such report, summary or
communication the competent authority shall so arrange it as to prevent any particulars
published therein from being identified as being particulars relating to any individual person or undertaking except with the previous consent in writing of that person or the person carrying on provision shall not prevent the disclosure of the sotal quantity or value of any articles produced,
sold or delivered; so, however, that before disclosing any such total the competent authority them by any person who alleges that made to them by any person who alleges that the disto him or to an undertaking carried on by him to be deduced from the total disclosed."
if a figure involved disclosure the
If a figure involved disclosure the contributor for its publication. In the majority of cases permission was given. When it was refused and where contributors were not approached the figure other figures, or as in the regional tables, by omit+ing the figure altogether.
Symbols used
he fol lowing symbols are used throughout the PA

- not avallable
- nll or less than half the final digit shown
disclosing information about individual enterprises
revised

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

The thited Classification (SIC) wa was subsequently revis first issued Industrial exists to promote uniformity and comparability in the official statistics of the United Kingdom. The general principlas followe are classification of all Economic Activities. of the United Nations Statistical Office but the United Kingdom sic reflects the organisation and structure of
industry and trade as it exists in the United industry and trade as it exists in the United
Kingdom. The SIC is a classification by activity
and is not a commodity classificatlong Hower and is not a commodity classification. However,
an index of all commodity headings for which an index of all commodity headings for which
sales data are provided in the Quarterly Business Monitors, is published in Business Monltor PQ1000.
Statistical units
The statistical unit for the purpose of the Census
is the establishment which is defined in the SIC 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 in an establishment fall activities carried on in an establishment fall within a single heading of the classification
(e.g. steel making or sugar refining). Typically (e.g. steel making or sugar refining). Typically
the establishment embraces all the activities carried on at a single address e.g. a farm, a mine or a factory, including those which are ancillary
to the principal activities. Frequently distinct to the principal activities. Frequently distinct
activities characteristic of different industries are carried on at one address, but normally these
are not classified separately and the whole are not classified separately and the whole
establishment is classifled according to the main activity. If, however, the required range of data can be provided for each activity, each is taken
to constitute a separate establishment. Somet Imes to constitute a separate establishment. Somet Imes
activities which are conducted as single bus iness 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 are different. Their activities may, however, be a singled to such an extent that they constitute establishment is defined to cover the combined activities at these addresses (termed local
units). Separate figures are obtained of employment and net capital expenditure at unit in order to compile regional tables.
Efforts are made by the Business Statistics Office Efforts are made by the Business Statistics Office
to ensure, by negotiating with respondents, that to ensure, by net from an establishment doos not cover
the return
local units or addresses in more than one of the local units or addresses in more than one of
countries of the United Kingdom. cuntries information about the statistical unit appeared in an article "The statistical unit in
business inquiries" in Statistical News No. 13 May busin
1971.
Establishments are asked to exclude from their Establishments are asked to exclude from their
returns particulars relating to any department not engaged in production e.g. merchanting, transport, warehousing, for which they keep a separate set
accounts. Transfers of goods produced to s departments are treated as sales and respondents are asked to value them as far as possible as 1 sold to an independent purchaser. Where separate
accounts are not kept they are asked to Include accounts are not kept they are asked to include
details of all these activities in their return detarticulars relating to head offices mainly
Pargaged in the administration of the productlon engaged in the administration of the production
units within the scope of the census were units within the scope of the census were
included. Where more than one return was made the
information in respect of the head office was information in respect of the head office was
apportioned among them.
for certalin purposes in the annual censuses o
e annual censuses
production (especially the enterprise analyses of siness Montor PA1002) related establishments e combined. For these purposes an enterprise
oup may be defined as a business consisting of
two or more stablishments under common ownership or control.
ringing together establisments into enterprise
ther oups is also necessary for the purpose of
nsurling that there will be no disclosure of the
suring tha
ctivities
formation nformation about the relationship of of
stablishments, the changing structure of groups
compane stablishments, the changing structure of groups
ompan and about common ownership links is
comed from many sources, companles and about common ownership links is
including the stock
btained from many sources, information supplied by individual establish-

REGISTER
ct to the reporting establishment on which latter can include information relating to all
manufacturing (or local) units which it Inquiries provide a major source of information act as a check on its detall and structure. the establishments on the register making fication is derived from an analysis of their of commodities and is reviewed annually.
orent data are entered on the register from ons to the annual census of production. In Inquiries the employment data are based on
mation provided by the Department of Employfrom the annual censuses of employment.
ilishments with 20 or more employees are lon more employees are
uded in the censuses each year and the inform-
on they supply to the census is supplemented by returns that those with 25 or more employees
int
inde to the quarterly inquiries. Information establishments with fewer than 20 employees creasing use has been made of data on these
all establishments supplied by the Department of oyment. One benefit of using this information
improvement in the estimates of the numer lier establishments and enterprises, but there , output, net capital expenditure)
$\qquad$ was required in the 1976 Census from each rem
tal ishment with 20 or more employees.
tablishment is classifled to an industry, as stablishment is classified to an industry, as
ef ined in the sic, whose principal proucts form Regions
regions defined in Table 5 take account of the
changes arising changes arising out of the Local
overnment Act 1972 and the Local Government Act
Scotland) 1973 cotland) 1973. These changes came into effect in
ii 1974 in England and Wales and May 1975 in

MS USED IN THE CENSUS REPORT
erage number emp loyed
ablishments were required to state the number
persons on the payroll on average during the of return, whether full-time or part-time
(a) administrative, technical and clerical
(b) amployees omployees (operatives)
and these are included in total appropriate and these are included in total employment
figures. outworkers ( 1.0 . persons employed by
establishments who worked in their own homes etc. establishments who worked in their own homes etc.
on materials supplied by the establishment) ar excluted. The filures include persons engaged on
merchanting or factoring and canteen workers where merchanting or factoring and canteen workers where
particulars in respect of these activities could particulars in respect of these activities could
not be excluded from the return. Working proprietors
These include all
These include all persons regarded as "self-
employed" for national insurance purposes and employed" for national insurance purposes and
members of their families who worked in the
business without receiving a wage or salary; but such persons who worked less wage or half the tary; but
number of that
number of wing hours are excluded. Directors working in the business but not in receipt of a definite wage, salary or commission are included
under this heading: directors pald by fee only are
not included.

Employees
Administrative, technical and clerical employees Administrative, technical and clerical employees
include directors in recelpt of a definite wage,
salary or commission, managers, superintendents and works foremen; research and design employees (other than operatives); draughtsmen, editorial
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 I warehouses, stores, shops and canteens Inspectors, maintenance workers and cleaners
Operatives engaged in outside work of erecting Operatives engaged in outside work of erecting,
titting etc. are also included, but outworkers Capital expenditure
Capital expenditure during the year in respect of started before the end of the year is included. value of capltal expenditure amounts recelved or expected to be received in grants or allowances from the Government or any 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. (a) New buflding work

This represents the cost incurred during the year
of new building and other constructiona of new building and other constructional work to the return. The value is that charged to capital
account during the year of return; it expenditure on new bulldings and on the extensio or reconstruction of old buildings, the value of works of a capital nature carried out by the
establishment's own staff and the cost of any estabrishment's own staff and the cost of any
newly constructed buildings purchased. Figures
shown nhown include legal charges, stamp duties, Figures
aghts
shat
(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 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
(c) Plant, machinery and vehicles
The items shown are the value

The items shown are the value of plant and
machinery and of vehicles acquired both machinery and of vehicles acquired, both new and
second-hand, and the amount received for items
disposed disposed of during the year. The value of plamt
and machinery acguired includes plant, etc. which
firms produced for the ir own use in connection with the business covered by the return. The value of
plant, etc. acquired is the expenditure charged to capital account during the year of return less any
cont incounts recelved, but Including the cost of discounts recelved, but Including the cost of
transport and installation. Deductible value added transport and installation. Deductible value added
tax is excluded but non-deductible value added tax tax is excluded but non-deductible value added tax
on motor cars acquired is included. No deduction is 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 the year
scrapped.
Cost of industrial services
This includes amounts payable to other firms for work done on materials supplied by the establish-
ment, payments for repairs and maintenance payments for repairs and maintenance
(Including those in respect of rented buildings) and amounts pald to other firms for contracts which
fave been sublet. Payments to outworkers are excluded.
Cost of non-industrial services
This includes rent of industrial and commercial bulidings, hire of plant and machinery, commercial
Insurance premiums, bank charges and amounts paid for professional services, post office services,
transport, advertising etc. Amounts payable on royalties 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 total sales and work done is increased by the rise lor reduced by the progress and goods on hand for sale.
Not output
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 mater ials the fall, during the year of stocks of materlals
etc.) and the cost of industrial services received, atc.) 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
admeratives, admistrative, technical and clerical operatives, adminotrative, terietors, but excluding outworkers.
Gross value added at factor cost
Gross value added at factor cost is calculated by Gross value added at factor cost is cost of nonIndustrial services (e.g. rent of buildings, hire of plant and machinery, commercial insurance
premiums, bank charges and amounts paid for premiums, bank charges and amounts pald for
professional services, post office services, professional servies, post office services,
transport and advertising), rates (excluding water
rates) and the cost of licensing motor vehicles. rates) and the cost of licensing motor vehicles. closely than census net output to the definition of net output or value added in national accounts statistics.
Gross value added at factor cost per head
The figures of gross value added at factor cost per The figures of gross value added at factor cos dividing the gross value added by the average number of persons employed (ful and
part-time) on all activities covered by the returns, including operatives, administrative, returns, including operatives, cles and working
technical and clerical employees and
proprietors, but excluding outworkers.

Purchase
Purchase
Include the cost of raw materials,
components, semi-manufactured goods and worksho
materials; of replacement parts and consumab maols not charged to capital account; of packagin materials of all types; of stationery and printe matter; of fuel, electricity and water; out to other establishments for the production machinery or other capital items for the esta lishment's own use; of materials for use by
establishment when working on goods supplied establishment when working on goods for any cantee
customers; and or covered by the establishment's return. Transfers of goods to the establishment from another depart
ment of the same firm not covered by the ment of the same firm not covered bablishment's return are included at a cos
establen estabisponding to the estimated selling val
corresped by the other department. Amounts payab
recorded recorded by the other department. Amounts payab
to transport firms or credited to the firm's transport department for delivery of materlals an excluded, as are all purchases of machinery a plant charged to capital account. Purchases
goods for merchanting or factoring have be goods for merchanting or factor The values shou exclude VAT. They include, in addition to t actual purchase price, the value of packagin
material charged to the establishment. The val material charged to the establishment.
of returned goods or packaging material return of returned goods or packaging materlal return
to suppliers and any trade discounts are exclude Materials purchased duty-paid are included at the
duty-pald value, less any drawback, rebate, et duty-pald value, less any drawback, rebate, et
The cost of transport is included only if it Theluded with the purchase price in the firm accounts Imported goods are inclints accounts transport from docks or airport is not included he cost of goods purchased, the cost leas entered c.i.f. plus duty (if applicable). Leasing

Sales of goods produced
Sales of goods produced
Sales for the purposes of the annual censuse
means deliveries on sale of goods made by estab: means deliveries on sale of goods made by estab
IIshments in the United Kingom covered by the nquiry. Sates of goods made for these esta
ishments by outworkers or by other establishme rom materials given out to them and sales waste products are included. New building wa and machinery or other caplal items produced
establishments for hiring out or leasing egarded as sales, the value included in return being that adopted in the establishment takings are excluded. All sales in the period the inquiry are inciuded irrespective of when
theoods were manufactured. Goods produced in
gin goods were manufactured. Goods produced in
establishment and transferred either to ancill establishment and transferred either to anction in departments not engaged in production for wh to anot
thare are separate accounts, or to an
establishment of the same firm not covered by establishment of the same firm not covered by return, are treated as sales by the producln
establishment and valued as far as possible as they had been sold to an independent purchas Goods transferred to wholesale or retall sell
organisations, for which separate accounts organisatens are valued on the same basis.
kept a
The value shown for sales is the sel value" defined as the amount (excluding va added tax) charged to customers whether on ex-works or delivered agents' commissions have
discounts and deducted. The cost of packing materials
allowance for returnable cases is included allowance for returnable cases is included.
industries where products attract Excise Duty industries where products attract exce duty if
value stated is usually inclusive of dut duty-pald and exclusive of duty if sold in bond exported.
Work done and industrial services rendered Figures for work done represent the amount chargy
for work carried out on materials supplied by for work carriled out on materlals supplied by
customer and include repair work. Within certa

Industries this heading covers a wide varlety of activities, for example, within the food sectorbutter packed on commission; within the textlile industries - making up of garments, fur dressing lishing - preparatory; work on type-setting, block making and binding. Work done is also significant in the electrical machinery and heavy engineering in the elect covering erection, installation and
Industries,
repair and jobbing work. other activities within this heading include exploration work, research and this heading include exploration work, research and
development, glass cutting and dressing and planing of timber.
Industrial
industrial services rendered include repairs and maintenance, installation work, and technical
nesearch and studies for other organisations.

Capital goods produced for establishments' own use This includes all work of a capital nature carried
out during the year by the establishments 1 own staff for their own use.
Non-industrial services rendered
This includes rents received for
industrial buildings, amounts fharged for hir and out plant, machinery and other goods and amounts charged to other organisations for the provision of
transport. it also includes amounts recelved for the right to use patents, trademarks, copyrights manufacturing and quarrying rights and tech-
kknow-how" and revenue from such staff ilities as canteens.
ods merchanted or factored
Merchanted goods are those (excluding canteen
sales) sold without having been subjected to any sales) sold without having been sub
manufacturing process by the seller.
Stocks and work in progress
Values are given of stocks of goods on hand for
sole and of materials, stores and fuel, at the end
of the year of return and of the year of return and of the fuange during the year, including any stocks of goods held for
nerchanting or factoring. Work in progress is
defined as materials which have been partially defined as materlals which have been partially
processed by the establishment but which are not processed by the establishment but which are not
usually sold or transferred to another estab-
lishment without further processing. The values usually sold or transferred to another estab-
Iisment without further processing. The values
Include the cost of materials consumed and labour used, together with a margin of overhead costs and
profits. Progress payments made Progits. Press payments made to sub-
contractors are excluded and progress payments contractors are excluded and progress payments
received from other organisations are not
deducted deducted.
Wages and salaries
These are amounts paid during the year to
operatives and to administrative, technical and operatives and to administrative, the year to to $\begin{aligned} & \text { techical and } \\ & \text { clerical employees. } \\ & \text { proprients to working }\end{aligned}$, whether called salaries or not proprietors, whether called salaries or not, are
excluded. The values shown include all overtime excluded. The values shown include all overtime
payments, bonuses and commisslons, whether paid
regularly or not, and no deduction is made for regularly or not, and no deduction is made for
income tax, insurances, contributory pensions etc. income tax, insurances, contributory pensions etc.
The value of redundancy payments less any amounts reimbursed from Government sources is included.
The value of any payments in kind, travelling expenses etc. Is excluded.
Temuneration paid to outworkers
The remuneration paid to outworkers (I.e. persons
employed by the establishment who do their work in employed by the establishment who do their work in
their own homes) is generally on a piece-work
basis. Only amounts paid appear on the establishment's payroll are Included. Amounts pa
excluded.

Employers' Insurance and welfare contributlons
This Item includes employers contr Ibutions
is Item Includes employers' contributlons to arnings related basic graduated pensions contributions under the

Social Security Act, 1973) as well as commercial annuation or other to provide pensions, superbenefits, personal accident benefits, disablility or death benefits for employeess or for mer
employees or their dependants. Contributions to employees or their dependants. Contributions to children's and holliday homes, etc. for employees, ormer employees and their dependants are also
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[^0]:    (a) Including estimates for establishments not mak ing satisfactory returns, non-response and establishments exempt because of size.

    Satisfactory returns accounted for 94 per cent of employment within the industry.
    (b) Included in sales of goods produced.
    (c) Average number employed, including full and part-time employees (see table 7 ) and working proprietors.
    (d) 1973 figures include hire of vehicles.
    (e) For $1973-1975$ rents of industrial and commercial buildings were not recorded separately. For 1976 the amount payable was
    $£ 2,521$ thousand.
    (f) Included in other non-industrial services.
    (g) 1974-1976 figures include the cost of hiring goods vehicles.

