


## PA361

A publication of the Government Statistical Service

## Special Note for Purchasers

Commencing with the 1971 Census, the Census of Production reports are being numbered in a uniform series embracing all industrial inquiries in the Business Monitor series. These Business Monitors have a code P (for production) and then by a number indicating the minimum list heading, or sub-division of a minimum list heading, the Standard Industrial Classification (revised 1968).
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## Report on the Census of Production 1976

Electrical machinery

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)

List of Industry Reports, etc.

| PA1001 | Introductory notes | PA369.1 | Electrical equipment for motor vehicles, cycles and aircraft |
| :---: | :---: | :---: | :---: |
|  | Coal mining ${ }^{\text {Stone and slate quarrying and mining }}$ | PA369.2 | Primary and secondary batteries |
| PA103 C | Chalk, clay, sand and gravel extraction | PA369.4 |  |
| PA104 P | Petroleum and natural gas | PA370 | Shipbuilding and marine engineering |
| PA109 M | Miscellaneous mining and quarrying | PA380 | Wheeled tractor manufacturing |
| PA211 G | Grain miling |  | Motor vehicle manufacturing |
| PA212 B | Bread and flour confectionery | PA381.2 | Trailers, caravans and freight contain |
| PA213 ${ }^{\text {P }}$ | Biscuits | PA382 | Motor cycle, tricycle and pedal cy |
| PA215 | Milk and milk products | PA383 | Aerospace equipment manutacturing and repairing |
| PA216 S | Sugar | PA384 | Locomotives, railway track equipment, railway carroges, |
| PA217 ${ }_{\text {PA218 }}$ | Cocoa, chocolate and sugar confectionery | PA390 | Engineers's small tools and gauges |
| PA218 ${ }_{\text {PA219 }}$ | Fruir and vegetable products | PA391 | Hand tools and implements |
| PA221 | Vegetable and animal oils and fats | PA392 | Cutlery, spoons, forks and plated tableware, ex |
| PA229.1 | Margarine | PA393 | Bolts, nuts, screws, rivets, etc. |
| PA229.2 | Starch and miscellaneous foo | PA394 | Cans and metal boxes |
| PA231 | Brewing and malting | PA396 | Jewellery and precious metals |
| PA232, | Soirit distiling and compounding | PA399.1 | Metal furniture |
| PA2399. 2 | British wines, cider and perry | PA399.5 | Drop forgings, etc. |
| PA240 | Tobacco | PA399.6 | Metal hollow ware |
| PA261 | Coke ovens and manufactured fuel | PA411 | Production of man-made fibres |
| PA262 | Mineral oil refining | PA412 | Spinning and doubling on the cotton and flax systems |
| PA263 | Lubricating oils and greases | PA413 | eaving of cotton, linen and man-made fibres |
| PA271.2 | Organic chemicals | PA414 | Woollen and worsted |
| PA271. 3 | Miscellaneous chemicals | PA415 |  |
| PA272 | Pharmaceutical chemicals and preparations | ${ }_{\text {PA4417. }}$ | Rope, twine and net Hosiery and other knitted goods |
| PA273 | Toilet preparations | PA417.2 | Warp knitting |
| PA275 | Soap and detergents | PA418 | Lace |
| PA276 | Synthetic resins and plastics materials and | PA419 | Carpets |
|  | synthetic rubber | PA421 | Narrow fabrics Household textiles and handkerchiefs |
| PA277 | Dyestuffs and pigments | PA422.2 | Canvas goods and sacks and other made-up textil |
| PA279. 1 | Polishes | PA423 | Textile finishing |
| PA279.2 | Formulated adhesives, gelatine, etc. | PA429.1 | Asbestos |
| PA279.3 | Explosives and fireworks | PA431 | Leather (tanning and dressing) and fellmongery |
| PA279.4 | Prormulated pesticices, etc. | PA432 | Leather goods |
| PA279.6 | Surgical bandages, e | PA433 | Fur |
| PA279.7 | Photographic chemical materials | PA444 | Men's and boys' tailored outerwe |
| PA311 | Iron and steel (general) | PA443 | ${ }^{\prime}$ |
| PA312 | Steel tubes | PA444 | Overalls and men's shirts, underwear, etc. |
| PA321 | Aluminium and aluminium alloys | PA445 | Dresses, lingerie, infa |
| PA322 | Copper, brass and other copper alloys | ${ }_{\text {PA4449. }}$ | Hats, caps and misellany Corsets and miscellas industries |
| PA331 | Agricultural machinery (except tractors) | PA449. 2 | Gloves |
| ${ }^{\text {PA3332 }}$ | Metal-working machine tools | PA450 | Footwear |
| PA333.1 | Pumps | PA461. 2 | Building bricks and non-refractory goods |
| PA333. | Comoressors 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. 2 | Miscellaneous building materials and mineral produc |
| PA338 | Mechanicat hanaring equipme | PA471 | Timber |
| PA339.1 | Mining machinery | PA472 | Furniture and uphoistery |
| PA339. 2 | Printing, bookbinding and paper goods machinery |  | Shop and office fitti |
| PA339. 3 | Refrigerating machinery, space-heat | PA475 | Wooden containers and baskets |
| PA339.5 | 5 Scales and weighing machinery and portable | PA479 | Miscellaneous wood and cork manufa Paper and board |
| PA30.7 | power tools | PA482.1 | Cardboard boxes, cartons and fibre-board packing case |
| PA339.7 | Food and drink processing machiny | PA482.2 | Packaging products of paper and |
| PA339.9 | Miscellaneous (non-lectrical) machinery | PA483 | Manufactured |
| PA341 | Industrial lincluding process) plant and steelwork | PA484.2 | Miscellaneous manufactures of paper and board |
| PA342, | Ordnance and small arms |  | publishing of newspapers and periodicals |
| PA349. 1 <br> PA34. | 1 Ball, roller, plain and other bearings | PA489 | General printing and publishing |
| PA351 | Photographic and document copy ing equipment | PA491 | Rubbe |
| PA352 | Watches and clocks | PA493 | Brushes and brooms |
| PA353 | Surgical instruments and appliances Scientific and industrial instruments and systems | PA494.1 | 1 Toys, games and children's carriages |
| PA361 | Electrical machinery | PA494.3 | 3 Sports equipment |
| PA362 | Insulated wires and cables | PA495 | Miscelianeous stationers goods |
| PA363 | Telegraph and telephone apparatus and |  |  |
|  | equipment Radio and electronic components | PA499.2 | 2 Miscellaneous manufacturing industrie |
| PA365. 1 | 1 Gramophone records and tape recordings | PA500 | Construction |
| PA365. 2 | 2 Broadcast receiving and sound reproducing | PA602 |  |
|  | Electronic computers | PA603 | Water supply |
| PAB67 | Radio, radar and electronic capital goods Electrical appliances primarily for domestic use |  | Summary tables |

Manufacturing machinery for generating, transmitting and distributing electric power including electricity generators, turbines for electricity generation and transformers; starting and controlling gear for electric motors, and switchgear; electric motors lincluding electric traction motors and transmission equipment and associated rectifiers), and electrical machinery not reported elsewhere.
Electrical equipment for motor vehicles, cycles and aircraft is 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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7 Percentage analysis of employees, by full and part-time employment and sex, 1976 ..... 7
table 1
Output and costs, 1973 . 1976
All United Kingdom establishments classified to the industry (a)

|  | Unit | 1973 | 1974 | 1975 | 1976 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Enterprises | Number | 812 | 938 | 1,000 | 1.085 |
| Establishments | " | 938 | 1,073 | 1,150 | 1,257 |
| Sales of goods produced | f thousand | 724,889 | 912,851 | 1,144,101 | 1,327,732 |
| Receipts for work done and industrial services rendered | . | (b) | (b) | (b) | 85,105 |
| Capital goods produced for establishments' own use | " | 2,750 | 1,739 | 1,497 | 2,159 |
| Non-industrial services rendered | " | 5.420 | 7,860 | 8,354 | 9,904 |
| Goods merchanted or factored | " | 50.519 | 83,250 | 89,104 | 151,060 |
| Total sales and work done (c) | " | 783,578 | 1,005,699 | 1,243,056 | 1,575,959 |
| Increase during the year, work in progress and goods on hand for sale | " | 15,244 | 68,653 | 88,476 | 94,367 |
| Gross output | " | 798,822 | 1,074,352 | 1,331,532 | 1,670,327 |
| Purchases of materials for use in production, and packaging and fuel | " | 369,690 | 583,578 | 687,227 | 682,981 |
| Purchases of goods for merchanting or factoring | " | 43,403 | (d) | (d) | 131,918 |
| Increase during the year, stocks of materials, stores and fuel | " | 20,103 | 41,928 | 5,877 | 16,310 |
| Cost of industrial services received | " | 14,885 | 25,872 | 31,571 | 44,465 |
| Not output | " | 390,947 | 506,831 | 618,610 | 827,273 |
| Total employment (e) | Thousands | 138.6 | 142.2 | 142.9 | 143.2 |
| Net output per head | £ | 2,822 | 3,564 | 4,330 | 5,777 |
| Payments for non-industrial services |  |  |  |  |  |
| i Rents, hire of plant and machinery (f) (g) | £ thousand | 3,153 | 4,867 | 5,546 | 7,625 |
| Commercial insurance premiums | " | 3,634 | 4,371 | 6,029 | 7.302 |
| Bank charges | " | 607 | 698 | 890 | 972 |
| i Other non-industrial services (h) | " | 15,404 | 23,046 | 31,474 | 44,531 |
| Licensing of motor vehicles | " | 218 | 237 | 321R | 358 |
| Rates, exclud ing water rates | " | 4,600 | 6.686 | 8.451 | 9,626 |
| Gross value added at factor cost | " | 363,332 | 466,925 | 565,899R | 756,860 |
| Gross value added at factor cost per head | £ | 2,622 | 3,283 | 3,961R | 5,285 |

(a) Including estimates for establishments not mak ing satisfactory returns, non-response and establishments exempt because of size.
Satisfactory returns accounted for 81 per cent of employment within the industry.
(b) Included in Sales of goods produced.
(c) Details of manufacturers' sales of principal products are published regularly in Business Monitor PQ361.
(d) Included in Purchases of materials for use in production, and packaging and fuel.
(e) Average number employed, including full and part-time employees (see table 7 ) and working proprietors.
(f) 1973 figures include hire of vehicles.
(g) For 1973-1975 rents of industrial and commercial buildings were not recorded separately. For 1974 the amount payable For $1973-1975$ rents
was $£ 4,260$ thousand.
(h) 1973-1975 figures include the cost of hiring goods vehicles.

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

| £ thousand |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 1973 | 1974 | 1975 | 1976 |
| Land and buildings |  |  |  |  |
| New building work | 3,490 | 5,333 | 5,608 | 7.689 |
| Land and existing buildings |  |  |  |  |
| Acquisitions | 1,747 | 1,341 | 1,379 | 1,412 |
| Disposals | 1,855 | 730 | 366 | 968 |
| Venicles |  |  |  |  |
| Acquisitions |  |  |  |  |
| Motor cars | 2,093 | 2,117 |  |  |
| Other vehicles | 599 | $656)$ | 2,972 | 4,840 |
| Disposals |  |  |  |  |
| Motor cars | 668 | $648)$ |  |  |
| Other vehicles | 85 |  | 742 | 1,198 |
| Plant and machinery |  |  |  |  |
| Acquisitions | 15,980 | 22,256 | 25,328 | 30,759 |
| Disposals | 405 | 832 | 805 | 1,041 |
| Total net capital expenditure | 20,894 | 29,437 | 33,374 | 41,494 |

(a) Including estimates for establishments not making satisfactory returns, non-respanse and establishments exempt because of size. Satisfactory returns accounted for 81 per cent of employment within the industry.
(b) 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 establishments 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 81 per cent of employment within the industry.

Analysis of establishments by size, 197
All United Kingdom establishments classified to the industry (a)

| $\begin{aligned} & \text { Size } \\ & \text { group } \\ & \text { (b) } \end{aligned}$ | Estab- <br> lish <br> ments | Enter- <br> prises <br> (c) | Employment |  |  | Wages and salaries (f) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Total <br> (d) | Opera-tives | Others(e) | Operatives |  | Others (e) |  |
|  |  |  |  |  |  | Total | $\begin{aligned} & \text { per } \\ & \text { head } \end{aligned}$ | Total | $\begin{aligned} & \hline \text { per } \\ & \text { head } \end{aligned}$ |


| 1-10 | 576 | 564 | $\begin{array}{r} 2,775) \end{array}$ |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11 - 19 | 211 | 199 | 3,057) |  |  |  | 2,491 | 15,714 | 3,216 |
| 20-49 | 186 | 185 | 5,608) | 11,768 | 4,886 | 29,318 | 2,491 | 15,714 | 3,216 |
| 50-99 | 84 | 75 | 5.889 ) |  |  |  |  |  |  |
| 100-199 | 61 | 57 | 8,784 | 6,209 | 2,564 | 15,751 | 2,537 | 8.017 | 3,127 |
| 200-299 | 38 | 30 | 9.044 | 5,878 | 3,159 | 15,231 | 2,591 | 10,488 | 3,320 |
| 300-399 | 20 | 18 | 6,998 | 4.404 | 2,594 | 12,142 | 2,757 | 8.429 | 3,249 |
| 400-499 | 11 | 11 | 4,820 | 3,265 | 1,551 | 8,860 | 2,714 | 5,062 | 3,264 |
| 500-749 | 26 | 23 | 16,168 | 10,291 | 5,877 | 29,665 | 2,883 | 19,534 | 3,324 |
| 750-999 | 17 | 11 | 14,350 | 9,415 | 4,935 | 24,024 | 2,552 | 16,214 | 3,286 |
| 1,000-1,499 | 10 | 4 | 12,659 | 7,281 | 5,378 | 22,233 | 3,054 | 16,884 | 3,139 |
| 1,500-1,999 | 3 | 3 | 5,455 | 3,174 | 2,281 | 10,140 | 3,195 | 8,646 | 3,791 |
| 2,000-2,499 | 4 | 3 | 8,895 | 5,653 | 3,242 | 17,016 | 3,010 | 11,313 | 3,490 |
| 2,500-2,999 | 3 | 3 | 7.894 | 5,312 | 2,582 | 12,041 | 2,267 | 8,682 | 3,363 |
| 3,000 and over | 7 | 4 | 30,804 | 17,458 | 13,346 | 55,538 | 3.181 | 49,005 | 3,672 |

[^0]| $1,575,959$ | $1,670,327$ | 827,273 | 5,777 | 756,860 | 5,285 | 41,494 | $\mathbf{6 4 8 , 6 0 3}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

(f) The cost of employers' contributions to national insurance, graduated pensions, other pensions and welfare schemes and the running cosecived was $£ 661$ thousand.
(g) 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.
(h) New building work plus acquisitions less disposals of land and existing buildings, vehicles and plant and machinery.
(j) Gross value added data relate to establishments employ ing 1-199.

Regional distribution of employment, net capital expenditure, net output and gross 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 |
|  | Thousands | per cent of United Kingdom |  |  | £ thousand | per cent of United Kingdom | £ thousand | £ thousand |  |
| Standard regions of England |  |  |  |  |  |  |  |
| North | 14.3 | 10.0 | 2,571 | 6.2 | * | * | * |
| Yorkshire and Humberside | 11.0 | 7.0 | 3,497 | 8.4 | 48,278 | 44,076 | 78.6 |
| East Midlands | 12.3 | 8.6 | 5,552 | 13.4 | 83,294 | 77,142 | 81.5 |
| East Anglia | 3.7 | 2.6 | 418 | 1.0 | * | * | * |
| South East | 25.6 | 17.9 | 6,603 | 15.9 | 75,403 | 66,690 | 52.9 |
| South West | 11.1 | 7.8 | 3,657 | 8.8 | 40,550 | 36,136 | 78.3 |
| West Midlands | 29.5 | 20.6 | 10,744 | 25.9 | 117,130 | 107,106 | 70.6 |
| North West | 19.8 | 13.8 | 5,224 | 12.6 | 58,692 | 53,405 | 50.4 |
| England | 127.4 | 89.0 | 38,267 | 92.2 | 501,022 | 457,335 | 69.0 |
| Wales | 3.9 | 2.7 | 710 | 1.7 | * | * | * |
| Scotland | 10.0 | 7.0 | 2,312 | 5.6 | 54.117 | 49,981 | 90.2 |
| Great Britain | 141.3 | 98.7 | 41,289 | 99.5 | * | * | * |
| Northern Ireland | 1.9 | 1.3 | 205 | 0.5 | * | * | * |
| Unallocated (e) | - | - | - | - | 248,983 | 228,056 | - |
| United Kingdom (b) | 143.2 | 100.0 | 41,494 | 100.0 | 827,273 | 756,860 |  |

(a) Average number employed, includ ing 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 employment at the address.

Percentage analysis of twelve month periods covered by returns received from United Kingdom establishments employing 20 or more persons, 1976

| Accounting year ended |  | Percentage of total returns received | Percentage of total number employed |
| :---: | :---: | :---: | :---: |
| 1976 |  | per cent | per cent |
|  | April (a) | 1.3 | 0.5 |
|  | May | 1.6 | 0.2 |
|  | June | 4.3 | 1.7 |
|  | July | 2.0 | 0.6 |
|  | August | 0.3 | 0.0 |
|  | September | 7.9 | 3.8 |
| 1977 | October | 4.3 | 5.4 |
|  | November | 2.0 | 1.2 |
|  | December | 39.9 | 39.5 |
|  | January | 6.6 | 5.5 |
|  | February | 2.3 | 2.5 |
|  | March (b) | 27.4 | 39.0 |

(a) From 6 th 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 |
| :---: | :---: | :---: | :---: |
|  | per cent | per cent | per cent |
| Male | 76 | - | 76 |
| Female | 20 | 4 | 24 |

[^1](e) Unallocated net output and gross value added covering establishments with addresses in two or more regions, plus estimates fo unsatisfactory returns, non-response and establishments exempt because of size.

Notes
These notes give the main information needed for
interpreting the figures in the Industry Business interproting the figures in the industry Business
Monitors: more detailed information about the Monitors: more detailed information about the
census Is Iven in a separate Business Mon itor PA1001 (Introductory Notes)
Census of Production, 1976.
general information
Changes made for 1976
The Census for 1976 is in line with similar The Census for 1976 is in line with simflar
inquiries being conducted in other member countries Inquirles being conducted in other member countries
of the European Economic Communities. There was a
En of the European Economic Commun ties. Scope of the
small number of changes in the
industry reports compared with 1975. These include smalu number of chan
Industry reports compar
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 Amounts pald for
commerclal buildings
Specific changes are explained in the introductions to the industry reports or by footnotes to the ables.
Suppression of information relating to individual undertakings
Sectlon $9(5)$ (b) of the Statistics of Trade Act 1947
shal states "The following provisions shall have communication to the public of information obtained under the foregoing provisions of this Act or
in compiling any such report, summary or In complifing any such report, summary or
communication the competent authority shall so communication the comperent authory particulars
arrange it as to prevent any
published therein from being identifled as being 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 be; but this provision shall not prevent te articles produced, sold or delivered; so, however, that before disclosing any such total the competent authority
shall have regard to any representations made to shall have regard to any representations made to
them by any person who al leges that the disclosure thereof would enable particulars relating to him or to an undertaking carried on by him to
be deduced from the total disclosed." If a figure involved disclosure the contributor concerned was sometimes asked to give permission
for its publication. In the majority of cases for its publication. Was given. When it was refused and where contributors were not approached the figure has been suppressed, in the the reglonal tables, by omitting the figure altogether.
Symbols used
The following symbols are used throughout the PA series of Business Monitors:
-. not avallable 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

revise

Rounding of flgures
FIgures in the tables have, where necessary, been rounded to the nearest final digit. Where flgures have been so rounded, the sum of the constituent
Items may not always agree exactly with the total shown

Industrial classification The United Kingdom Standard Industrial classification (ly revised inst issued in 1948 and exists to promote uniformity and comparablitity in the official statistics of the United Kingdom. The general principles fol lowed are those of the
International standard Industrial Classification International Standard Industrial Classification
of all Economic Activities of the United-Nations of atistical Office but the United Kingdom SIC reflects the organisation and structure of industry and trade as it exists in the United Kingdom. The SIC is a classification by activity
and is not a commodity classification. However, an index of all commodity headings for which
ander
sales data are provided in the Quarterly Business 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 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). Typlcally the establishment embraces all the activities
carried on at a single address e.g. a farm, a mine carried on at a single address e.g. a farm, a mine
or a factory, including thiose which are ancillary or a factory, including those which are anciliary
to the principal activities. Frequently distinct activities characteristic of different industries
are carried on at one address, but normally these are carried on at one address, but normally these
are not classified separately and the whole establishment is classiffed 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 activities which are conducted as a single
business are carried on at a number of addresses, business are carried on at a number of addresses here this is so, businesses are asked to provid
he full range of separate information in respec the full range of separate informat activities ar ifferent. Their activities may, however, b ifferent.
integrated single establishment. In the latter case the astabishment is defined to cover the combine $\begin{array}{ll}\text { at these addresses } \\ \text { units). } & \text { Separate } \\ \text { figures are obtained }\end{array}$ employment and net capital expenditure Efforts are made by the Business Statistics Offic to ensure, by negotlating with respondents, tha
the return from an establishment does the return from an establishment does not cover
local units or addresses in more than one of the countries of the United Kingdom. Further information about the statistical un
appeared in an article "The statistical unit appeared in an article "The statistical unit
business inquiries" in Statistical News No. 13 Mar 1971. eturns particulars relating to any department no engaged in productlon e.g. merchanting, transpor warehousing, for which they keep a separate set
accounts. Transfers of goods produced to su departments are treated as sales and respondents. are asked to value them as far as possible as
sold to an independent purchaser. Where separa accounts are not kept they are asked to Inclu accounts are not kept they are asked to inclur
detalls of all these activities in their retur
Particulars relating to head offices main Particulars relating to head offices main
engaged in the administration of the production engaged in the administration of the production
units within the scope of the census were included. Where more than one return was made the information in respect of the head office apportloned among them. in the annual censuses
for certain purposes in

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 capital account during the year of return less any
discounts recelived but Including the cost of discounts received, but Including the cost of
transport and installation. Deductible value added transport and instailation. 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 on motor cars acquiredion, amortization or obsoles-
is made for depreclation
cence. The proceeds of items disposed of during the year
scrapped.
Cost of Industrial services
This Includes amounts payable to other firms for work done on materials supplied by the establishment, payments for repairs and maintenance
(Including those in respect of rented buildings) and amounts pald to other firms for contracts which 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, royalties for the right to use patents, trademarks,
copyrights etc., manufacturing and quarring 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 total sales and work done is Increased by the rise
(or reduced by the fall) during the year in the (or reduced by the fall) during the year in the
value of work in progress and goods on hand for value
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
ins the fall, during the year of stocks of materials
otc.) and the cost of industrial services received, etc.) and the cost of industrial
and where applicable, duties etc.
Net output per head
The flgures of net
The figures of net output per head are derived by
dividing the net output by the average number of dividing the net output by the average number of
persons
empeyed (full and part-time) on all activities covered by the returns, including operatives, administrative, technical and clerical
employees and working proprietors, but excluding employees a
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 (e.g. rent of buildings, hire of plant and machinery, commercial insurance premiums, bank charges and amounts paid for
professional services, 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.
This estimate of gross value added approaches more This estimate of gross value added approaches more
closely than census net output to the definition of net output or value added in national accounts
statistics. statistics.
Gross value added at factor cost per head
Gross value added at factor cost per head
The figures of gross value added at factor cost per
head are der lived by dividing the gross value added head are der ived by dividing the gross value added
by the average number of persons employed (full and by the average number of persons employed (full and
part-time) on all activities covered by the
returns part-times, on ang octivatives, administrative,
return,
technical and cleding orical employees and working rechnical and clerical employees and
teroprietors, but excluding outworkers.

Purchases
Purchases include the cost of raw materials,
components, semi-manufactured goods and worksho
matertals; of replacement parts and consumat materlals; replacement parts and corser mab
tools not charged to capital account; of materials of all types; of stationery and printe matter; of fuel, electricity and water; materials to be used by the establishment or give machinery or other capital items for the estab lishment's own use; of materlals for use by the establishment when working on goods supplied customers; and of food, etc. for any canteer
covered by the establishment's return. Transfers covered by the establishments return. Transfer
of goods to the establishment from another depart ment of the same firm not covered by
establishment's return are included at a
corresponding estabesponding to the estimated selling valu recorded by the other department. Amounts payabl
to transport firms or credited to the firm's on transport department for dellivery of materlals ar excluded, as are all purchases of machinery and plant charged to capital account. Purchases
goods for merchanting or factoring have bee collected separately since 1973 . The values shom actual purchase price, the value of packagil material charged to the establishment. The value of returned goods or packaging material returned
to suppliers and any trade discounts are excl uded to suppliers and any trade discounts are excluded
Materials purchased duty-paid are included at thel duty-pald value, less any drawback, rebate, et The cost of transport is included only if it accounts. Imported goods are Included at the
full delivered cost. If in the firm's accounts transport from docks or airport is not included
the cost of goods purchased, the cost is entered c.l.t. plus duty (if applicable). Leasing, rentl and hire purchase charges are excluded.
Sales of goods produced Sales for the purposes of the annual censuse
means deliveries on sale of goods made by esta IIshments in the United Kingods covered by the inquiry. Sates of goods made for these esta
IIshments by outworkers or by other establishmen from materlals given out to them and sales waste products are included. New bullding wor
and machinery or other capital and machinery or other capital items produced
establishments for hiring out or leasing establishments for hiring out or leasing an included in the return being that adopted in the establishment
capltal asset accounts. Forward sales and ant capltal asset accounts. Forward sales and cante the inquiry are included irrespective of when goods were manufactured. Goods produced In a
establishment and transferred either to ancilla establishment and transferred either to ancillai
departments not engaged in production for whic departments not engaged in production for whi
there are separate accounts, or to anothe establishment of the same firm not covered by t
return, are treated as sales by the produclin return, are treated as sales by the produc
estabilishment and valued as far as possible as they had been sold to an independent purchase
Goods transferred to wholesale or retail sellil organisations, for which separate accounts kept are valued on the same basis.
The value shown for sales is thet selliil value" deflned as the amount (excluting val
added tax) charged to customers whether on added tax) charged to customers whether on
ex-works or delivered basis, after any trad ex-works or delivered basis, after any tra
discounts and agents' commissions have beg deducted. The cost of packing materials le al lowance for returnable cases is included. Industries where products attract Excise Duty
value stated is usually inclusive of duty if so duty-pald and exclusive of duty if sold in bond exported.
Work done and industrial services rendered Figures for work done represent the amount charg
for work carried out on materials supplied by customer and include repalr work. Within corta
 ctivities, for example, within the food sector
utter packed on commission; within the textile jutter packed on commission; within the textile
industries - making up of garments, fur dressing Industr tes - making up of garments, fur dressing
and textile finishing; within printing and pubishing - preparatory work on type-setting, block
iaking and binding. Work done is also significant aking and binding. Work done is also significant
n the electrical machinery and heavy eng ineering n the electrical machinery and heavy engineering
ndustries, covering erection, installation and repair and jobbing work. Other activities within this heading include exploration work, research and
development, glass cutting and dressing and planing devel opment
of timber
Industrial Industrial services rendered include repairs and naintenance, installation work, and tec
research and studies for other organisations.
apital goods produced for establishments' own use
his includes all work of a capital nature carried ut iuring the yoark by a capital nature carried
the establishments' own
out
on-Industrial services rendered
is includes rents recelved for commercial and or plant, machinery amounts other goods and amounts harged to other organ isations for the provision of
ransport. it also includes amounts received for he right to use patents, trademarks, copyrights cight octuse patents, trademarks, copyrights
cai "know-how" and quarring rights and tech-
nevenue from such statf ical "know-how" and
acllities as canteens.
oods merchanted or factored
les) sold without having been subjected to to to les) sold without having been subd
nufacturing process by the seller.
tocks and work in progress
Values are given of stocks
ues are glven of stocks of goods on hand for
le and of materials, stores and fuel, at the end and of materials, stores and fuel, at the end
the year of return and of the change during the ar, Including any stocks of goods held for
rchanting or factoring. Work in progress is fined as materials which have been progress istially
cessed by the establishment but which are not ssually sold or transferred to another estab-
ishment without further processing. The values iclude the cost of mater lals consumed and labour of its. Progress payments made to sub-
onts and intractors are excluded and progress payments
colved from other organlisations are not ducted.
ges and salarles
ose are amounts
ese are amounts paid during the year to
eratives and to administrative, technical and oprietors, employees. Payments to working cluded. The values shewn include all overtime gularly or not, and no deduction is made for
come tax, insurances, contributory pensions etc. come tax, insurances, contributory pensions etc.
e value of redundancy payments less any amounts e value of any payments in kources is included. neration is excluded.
remuneratid to outworkers
remuneration paid to outworkers (1.e. persons
loyed by the establishment who do the ir
 pear only amounts paid to outworkers whose names ounts pald to outworkers by sub-contractors are cluded.
loyers' Insurance and welfare contributions
ional Insurances employers' contributions to
ional Insurance and graduated pensilons fand/or
nings related basic contributions under the

Social Security Act, 1973) as well as commercial insurance premiums to provide pensions, superannuation or other retirement benefits, slckness
benefits, personal accident benefits, disability or death personalits faccident benenefits, disability
forloyees or former
employees or their dependants. Contributions to employees or their dependants. Contributions to
the running costs of canteens, soclal centres children's and hol lday homes, etc. for employees,
former employees and their dependants are al so
included.
firms produced for their own use in connection with plant, etc. acquired is the expenditure charged to capital account during the year of return less any
discounts recelived but Including the cost of discounts received, but Including the cost of
transport and instal iation. 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 on motor cars acquired amortization or obsoles-
Is made for depreclation, amer
cence. The proceeds of items disposed of during the year
scrapped.
Cost of industrial services
This Includes amounts payable to other firms for work done on materials supplied by the establishment, payments for repairs and maintenance
(Including those in respect of rented buildings) and amounts pald to other firms for contracts which
have been sublet. Payments to outworkers are
hat have been
excluded.
Cost of non-industrial services
This Includes rent of industrial and commercial buldings, 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 royalties for the right to use patents, trademarks,
copyrights etc., manufacturing and quarrying right's
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 total sales and work done is Increased by the rise
(or reduced by the fall) during the year in the (or reduced by the fall) during the year in the
value of work in progress and goods on hand for value
sale.
Net output
$\mathrm{Ne}+\mathrm{outpu}$
Net output, a customary census measure, is
calculated by deducting from oross output the cost of purchases (reduced by the rise, or increased by the fall, during the year of stocks of materials
etc.) and the cost of industrial services received, etc.) and the cost of industrial
and where applicable, duties etc.
Net output per head
The figures of net output per head are der ived by
dividing the net output by the average number of dividing the net output by the average number of
persons employed (full and part-time) on all activities covered by the returns, including
aperatives, administrative, technical and clerical operatives, administrative, technical and clerical
employees and working proprietors, but excluding emp loyees
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 ce.g. rent of buildings, hire of plant and machinery, commercial Insurance premiums, bank charges and amounts paid for
professional services, 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.
This estimate of gross value added approaches more This estimate of gross value added approaches more
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
Gross value added at factor cost per head
The figures of gross value added at factor cost per
head are derlved by dividing the gross value added head are der ived by dividing the gross value added
by the average number of persons employed (full and by the average number of persons employed (full and
part-time) on all activities covered by the
returns part-times, on an activities, covered by the
return, including operatives, administrative,
technical and clerical employees and working rechnical and clerical employees and
teroprietors, but excluding outworkers.

Purchases
Purchases include the cost of raw materials,
components, semi-manufactured goods and worksho
matertals; of replacement parts and consumabilen materlals; replacement parts and cor packagi
tools not materials of all types; of stationery and printe matter; of fuel, electricity and water;
materials to be used by the establishment materlals to be used by the establishment or giv
out to other establishments for the production machinery or other capital items for the estab Iishment's own use; of materials for use by the establishment when working on goods supplied customers; and of food, etc. for any cantee
covered by the establishment's return. Transfer of goods to the establishment from another depart ment of the same firm not covered by
establishment's return are included at a
corresponding estabesponding to the estimated selling valu recorded by the other department. Amounts payabl
to transport firms or credited to the firm's om transport department for dellivery of materlals ar
excluded, as are all purchases of mathin excanted, as are all purchases of machinery and plant charged to capital account. Purchases
goods for merchanting or factoring have be collected separately since 1973 . The values show actual purchase price, the value of packagin material charged to the establishment. The valu of returned goods or packaging material returne
to suppliers and any trade discounts are excluded Materials purchased duty-paid are included at thel
duty-pald duty-paid value, less any drawback, rebate, ete The cost of transport is included only if it accounts. Imported goods are Included at the
full delivered cost. If in the firm's accounts t transport from docks or airport is not included
the cost of goods purchased, the cost is entered the cost of goods purchased, the cost is entered
c.l.t. plus duty (if applicable). Leasing, rentin and hire purchase charges are excluded.
Sales of goods produced Sales for the purposes of the annual censuse
means deliveries on sale of goods made by esta means deliver les on sale of goods made by estab
IIsments in the United Kingdom covered by the inquiry. Sales of goods made for these esta
lishments by outworkers or by other establishmen lishments by outworkers or by other estabilshmen sales waste products are included. New bullding wor
and machinery or other capital
Items produced and machinery or other capital items produced
establishments for hiring out or leasing estabilishments for hiring out or leasing a
regarded as sales, the value included in t return being that adopted in the establishment
capltal asset accounts. Forward sales and capltal asset occounts. Aorward sales and cante the inquiry are included irrespective of when goods were manufactured, Goods produced in
establishment and transferred either to ancill establishment and transferred either to ancillai
departments not engaged in production for whic departments not engaged in production for whi
there are separate accounts, or to anothe establishment of the same firm not covered by the
return, are treated as sales by the produciry return, are treated as sales by the producl they had been sold to an independent purchaser Goods transferred to wholesale or retail sellif organisations, for which separate accounts kept are valued on the same basis.
The value shown for sales is the sellin value" deflned as the amount (excluding valu
added tax) charged to customers whether on added tax) charged to customers whether on
ex-works or delivered basis, after any trad discounts and agents' commissions have be deducten. The cost of packing materials
al lowance for returnable cases is included. Industries where products attract Exclise Doty
value stated is usually inclusive of duty if so duty-pald and exclusive of duty if sold in bond exported.
Work done and industrial services rendered Figures for work done represent the amount charg
for work carried out on materlals supplied by customer and include repalir work. Within certa
ndustries this heading covers a wide variety of ctivities, for example, within the food sector -
utter packed on commission; within the textle industries - making up of garments, fur dressing nd textlle finishing; within printing and pub-
ishing - preparatory work on type-setting ishing - preparatory work on type-setting, block
taking and binding. Work done is also significant In the electrical machinery and heavy engineering ndustries, covering erection, installation and
epalr and jobbing work. Other activities within this heading include exploration work, research and evelopment, glass cutting and dressing and planing ndustriai services rendered include repairs and aintenance, installation work, and technical apital goods produced for establishments' own use hit durling the yoark by a capltal nature carried
to daft for their own use.
on-Industrial services rendered
ndis includes rents recelved for commercial and ndustrial bachings, amounts charged for hiring harged to other organisations for the provision of
ransport. It also includes amounts received for right to use patents, trademarks, copyrights ., manufacturing and quarrying rights and techcal "know-how" and revenue from such staff
acilities as canteens.
oods merchanted or factored
erchanted goods are those (excluding canteen
ales) sold without having been subjected to any anes) sold without having been subjected to any
anufacturing process by the seller.
tacks and work in progress
lues are given of stocks of goods on hand for
le and of materials, stores and fuel, at the end le and of materials, stores and fuel, at the end
the year of return and of the change during the Including any stocks of goods held for
orchanting or factoring. Work in progress is fined as materials which have been partially
ocessed by the establishment but which are not sually sold or transferred to another estab-
ishment without further processing. The values nclude the cost of mater lals consumed and labour
sed, together with a margin of overhead costs and ofits. Progress payments made to sub-
ontractors are excluded and progress to intractors are excluded and progress payments
colved from other organisations are not
ges and salarles
ose are amounts
ese are amounts paid during the year to
eratives and to administrative, technical and oprletors employees. Payments to working cluded. The values shewn include all over ore time yments, bonuses and commissions, whether paid
gularly or not, and no deduction is made for come tax, insurances, contributory pensions etc. imbursed of redundancy payments less any amounts imbursed from Government sources is included.
penses of atc. is payments in kind, travelling uner etc. is excluded.
remuneration to outworkers
remuneration pald to outworkers (1.e. persons
loyed by the establishment who do their work in ir own homes) is generally on a p pece-work
sis. Only amounts paid to outworkers whose pear only amounts paid to outworkers whose names ounts pald to outworkers by sub-contractors are
cluded. cluded.
loyers' Insurance and welfare contributions
ional Insurances employers' contributions to
lonal Insurance and graduated pensilons (and/or
nings related basic contributions under the

Social Security Act, 1973) as well as commercial insurance premiums to provide pensions, superannuation or other retirement benefits, slicness
benefits, personal accident benefits, disabllity benefits, personal accident benefits, disability
or death benefits for employees or former
employees or their dependants. Contributions to employees or their dependants. Contributions to
the running costs of canteens, social centres,
children's and hollday children's and hollday homes, etc. for employees,
former employees and their dependants are also
included. included.
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[^0]:    | Total | 1,257 | 1,085 | 143,200 | 90,108 | 52,395 | 251,959 | 2,796 | 177,989 | 3,397 |
    | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

    (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.

[^1]:    (a) The percentages relate to the numbers employed (excluding working proprietors) in the United Kingdom at end June, 1976

