## Business Monitor

## Report on the Census of Production

## Cardboard boxes, cartons and fibre-board packing cases



Soecial Note for Purchaser
Commencing with the 1971 Census, the Census of roduction reports are being numbered in a uniform Monitor series. These Business Monitors have a code P (for production) followed first by A (indicating that it is an annual series) or Q (quarterly) or M (month and then by a number indicating the minimum lis heading, or sub-division of a minimum list heading, of the Standard Industrial Classification (revised 1968)

The Census of Production (PA) reports are available on standing order (details on application to He Majesty's Stationery Office, P.O. Box 569, London E1 9NH. Telephone 01-928 6977) although they are not included in the global subscription arrangements
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## Report on the Census of Production 1976

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 soc 7)

## Department of Industry

Business Statistics Office


PA369.1 Electrical equipment for motor vehicles, cycles
PA369.2 and aircraft $\begin{aligned} & \text { Primary and secondary batteries } \\ & \text { PA369.4 Electric lamps, electric light fittings, wiring }\end{aligned}$
PA Electric lamps, electric light fittings,
accespories. etc.
Shipbuilding Shipbuilding and marine engineering
Wheeled tractor manutacturing Motor vehicle manufacturing Trailers, caravans and freight containers Merospace equipment manu facturing mand facturing Locomotives, railway track equioment, railway car wagons and rams
Engineers' small tools and gauges
Hand
Hand tools and implements
Cutlery, spoons, forks and pla
Bolts, nuts, screws, rivets, etc.
Bolts, nuts, screws, rivets, ets
Wire and wire manufactures
Cans and metal boxes
Jewellery and precious metals
Mevellery and pre
Metal furniture
Drop forgings
Drop forgings, etc
Meta hollow war
Miscellaneous metal manufacture
Spinning and doubling on the cotton and flax systems
Weaving of cotton, linen and man-made fibres
Woollen and worsted
Rope, twine and net
Hosiery and other knitted goods
Hosiery and oth
Warp knitting
Lace
Lace
Carpets
Carpets
Narrow fabrics
Narrow fabrics
Household textiles and handkerchiefs
Canvas goods and sacks and other made-up textiles
Astestos
Misellan
Leather (tanning and dressing) and fellmonger
Leather (tannin
Learther goods
Fur
Weatherproof outerwear
Men's and boys' tail ored outerwear
Women's and girss' tailored outervear
Women's and girls' tailored outerwear
overalls and men's shirts, underwear, etc.
Overals and men's shirts, underwear
Dresses, lingerie, infants' wear, etc.
Hats, caps and millinery
Dresses, caps and militine
Hats
Corsets and miscell
GIoves
Footwea
Footwear
Refractory
Refractory goods
Building bricks and non-refractory goods
Pottery
Pottery
Glass
Glass
Cement
Cement
Abasives
Miscellan
Miscellan
Timber
Furniture and upholstery
Bedding, etc.
Shop and office fitting
Woodden conticiners and baskets
Miscellaneous wood dand cork
Miscellaneous wood and cork manufactures
Paper and board
Cardboard boxes, cartons and fibre-board packing cases
Packaging products of paper and associated materials
Packaging products of
Wallcoverings
Miscellaneous manufactures of paper and board
Printing, publishing of newspapers and periodical
General printing and publishing
Rubber
Rubber Linoleum, plastics floor-covering, leathercloth, etc.
Brushes and brooms
Toys, games and children's carriages
Toys, games and children's carriage
Sports equipment
Miscllalaneous stationers' goods
Plastics products
Plastics products
Musical instrument
Miscellaneous manufacturing industries
Construction
Gas
Electricity
Electricity
Water supply
Sumnary

The information in this report relates to establishments classified to the cardboard boxes cartons and
fibreoboard packing cases industry, minimum Itst heading 482s in in the itandard Industrial diassification
(revised 1968). The activities of the industry include:-

Manufacturing all types (whether printed or not) of rigid or folding cardboard and paper boxes,
canisters and other containers (including composite containers of board and metal) except paper bags,
tibre card and sliver cans.

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


| (1) |  |  |  | £ thousand |
| :---: | :---: | :---: | :---: | :---: |
|  | 1973 | 1974 | 1975 | 1976 |
| Land and buildings |  |  |  |  |
| New building work | 2,901 | 3,291 | 2,588 | 1,648 |
| Land and existing buildings |  |  |  |  |
| Acquisitions | 550 | 521 | 580 | 1,127 |
| Disposals | 559 | 1,765 | 105 | 345 |
| Vehicles |  |  |  |  |
| Acquisitions |  |  |  |  |
| Motor cars | 1,344 | 1,880) |  |  |
| Other vehicles | 427 | $798)$ |  |  |
| Disposals |  |  |  |  |
| Motor cars | 651 | 705 ) |  |  |
| Other vehicles | 58 | 83) | 599 | ,007 |
| Plant and machinery |  |  |  |  |
| Acquisitions | 13,798 | 17,896 | 16,936 | 23,717 |
| Disposals | 712 | 650 | 652 | 1,124 |
| Total net capital expenditure | 17,040 | 21,183 | 21,048 | 27,162 |

(a) Including estimates for establ ishments not making satisfactory returns, non-response and
establishments exempt because of size. Satisfactory returns accounted for 82 per cent of emp loyment
withit thening with in 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 establ ishments classified to the industry (a)

Materials, stores and fuel
Work in progress
Goods on hand for sale
Total

| 1973 | 1974 | 1975 | $1976$ |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Increase |  | Value at end of year |  |
| 10,931 | 31,668 | -17,129 | 12,059 | 72,146 |
| 4,363 | 6,244 | -3,959 | 8,312 | 26,707 |
| 1,902 | 8,089 | 1,259 | 1,400 | 22,034 |
| 17,196 | 46,002 | -19,828 | 21,771 | 120,888 |

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments exemp.
within the industry.

| $\begin{aligned} & \text { Size } \\ & \text { (broup } \\ & \text { (b) } \end{aligned}$ | Estabments | $\begin{aligned} & \text { Enter- } \\ & \text { prises } \\ & \text { (c) } \end{aligned}$ | Emp loyment |  |  | Wages and salarles(f) |  |  |  | Total sales and work done ( g ) | Gross output | Net ${ }_{\text {Nutput }}$ |  | Gross value added at factor cost |  | Net capital expenditure (h) | Total stocks and work in progress at |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | $\begin{aligned} & \text { Total } \\ & \text { (d) } \end{aligned}$ | Opera- | Others <br> (e) | Operatives |  | Others (e) |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | Total | per head | Total | per head |  |  | Total | per head | Total | per head |  |  |
|  | Number | Number | Number | Number | Number | £ thousand |  | £ thousand | £ | thousand | £ thousand | £ thousand | £ | £ thousand | £ | £ thousand | £ thousand |
| 1-10 | 175 | 173 | 1,029) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11-19 | 115 | 112 | 1,680) | 10,329 | 2,791 | 22,647 | 2,193 | 8,979 | 3,217 | 160,034 | 161,133 | 67,381 | 4,980 | (j) | (j) | 7,525 | 19,656 |
| 20-49 | 113 | 108 | 3,584) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50-99 | 101 | 92 | 7,237 ) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100-199 | 65 | 55 | 9,375 | 7,194 | 2,163 | 17,769 | 2,470 | 7,017 | 3,244 | 121,097 | 122,605 | 49,966 | 5,330 | 102,610(j) | 4,480(j) | 5,429 | 18,248 |
| 200-299 | 28 | 24 | 6,685 | 5,063 | 1,622 | 15,527 | 3,067 | 5,487 | 3,383 | 111,451 | 112,185 | 44,738 | 6,692 | 38,981 | 5,831 | 2,587 | 14,373 |
| 300-399 | 16 | 8 | 5,621 | 4,261 | 1,360 | 12,821 | 3,009 | 4,523 | 3,326 | 95,265 | 95,522 | 39,075 | 6,952 | 34,202 | 6,085 | 1,714 | 9,283 |
| 400-499 | 19 | 11 | 8,520 | 6,377 | 2,143 | 19,116 | 2,998 | 7,401 | 3,454 | 115,811 | 118,323 | 50,564 | 6,935 | 42,927 | 5,038 | 1,726 | 17,809 |
| 500-999 | 18 | 12 | 10,985 | 8,551 | 2,434 | 28,071 | 3,283 | 8,746 | 3,593 | 188,904 | 190,242 | 85,944 | 7,824 | 76,548 | 6,968 | 5,017 | 24,233 |
| 1,000 and over | 6 | 5 | 8,850 | 7,017 | 1,833 | 20,947 | 2,985 | 6,404 | 3,494 | 112,904 | 115,169 | 52,687 | 5,953 | 47,899 | 5,412 | 3,164 | 17,285 |
| Total | 656 | 533 | 63,566 | 48,792 | 14,346 | 136,899 | 2,806 | 48,559 | 3,385 | M5,466 | 915,178 | 390,355 | 6,141 | 343,167 | 5,399 | 27,162 | 120,888 |

(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 Average number
proprletors.
(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.
) Including working proprietors.
(e) Administrative, technical and clerical employees.

The cost of employers' contributions to national insurance, graduated pensions, other pensions and
welfare schemes and the running costs of canteens, is estimated for the industry at £27,113
thousand. In addition remuneration of outworkers on returns recelved was $£ 86$ thousand.

New building work plus acquisitions less disposals of land and existing buildings, vehicles and
plant and machinery.
Gross value added data relate to establishments employing 1-199.

| Area | Total employment (a) |  | Net capital <br> expenditure (b) (c) |  | Net output, gross value added and employment in the region from returns more than 80 per cent of theiremployment in the region (d) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Net output | Gross value added at factor cost $\dagger$ | Emp loyment as a percentage of total regional emp loyment in the industry |
|  | Thousands | per cent <br> of United <br> Kingdom |  |  | £ thousand | per cent of United Kingdom | £ thousand | £ thousand |  |
| Standard regions of England |  |  |  |  |  |  |  |
| North | * | * | * | * | * | * | * |
| Yorkshire and Humberside | 4.2 | 6.6 | 1,931 | 7.1 | 19,011 | 17,083 | 84.1 |
| East Midlands | * | * | * | * | * | * | * |
| East Anglia | 1.9 | 3.1 | 1,718 | 6.3 | 12,678 | 10,922 | 78.7 |
| South East | 16.1 | 25.3 | 5,314 | 19.6 | 76,688 | 65,794 | 72.7 |
| South West | * | * | * | * | * | * | * |
| West Midlands | 4.5 | 7.1 | 2,278 | 8.4 | 16,203 | 14,550 | 73.5 |
| North West | 11.7 | 18.4 | 4,739 | 17.4 | 57,002 | 49,267 | 85.4 |
| England | 54.7 | 86.0 | 23,800 | 87.6 | 260,959 | 228,081 | 79.4 |
| Wales | 1.9 | 2.9 | 711 | 2.6 | 6,810 | 5,556 | 65.9 |
| Scotland | 5.7 | 9.0 | 2,174 | 8.0 | 25,823 | 23,153 | 80.0 |
| Great Britain | 62.3 | 98.0 | 26,684 | 98.2 | 293,592 | 256,791 | 79.0 |
| Northern Ireland | 1.3 | 2.0 | 477 | 1.8 | 5,708 | 4,816 | 87.6 |
| Unallocated (e) | - | - | - | - | 91,055 | 81,560 | - |
| United Kingdom (b) | 63.6 | 100.0 | 27,162 | 100.0 | 390,355 | 343,167 |  |

(a) Average number employed, including full and part-time employees (see table 7) and working
(b) Including estimates for establishments not making satisfactory returns, non-response and
establishments with fewer than 20 employees.
(c) New bullding work plus acquisitions less disposals of land and existing buildings, vehicles and (d) Where a census return covered addresses in two or more regions an estimate was made of the net
output and rososs 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 estat ishment's emp loyees were located in the region. The estimate was made by assuming that net
eutput and gross value added at each address covered by a return was proportional to employment at
out output and gr
the address.
(e) Unallocated net output and gross value added covering establishments with addresses in two or more
regions, plus estimates for unsatistactory returns, non-response and establishments exempt because
of sizes regions,
of size.

TABLE 6
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) | 2.6 | 1.4 |
|  | May | 1.8 | 0.4 |
|  | June | 2.6 | 1.3 |
|  | July | 3.3 | 2.3 |
|  | August | 4.1 | 1.9 |
|  | September | 5.2 | 9.1 |
| 1977 | October | 2.2 | 1.6 |
|  | November | 1.5 | 0.5 |
|  | December | 42.4 | 49.7 |
|  | January | 7.8 | 8.5 |
|  | February | 2.6 | 0.7 |
|  | March (b) | 24.0 | 22.7 |

## (a) From 6th April.

(b) Including returns made for twelve-month period ended 1st to 5 th April 1977.

TABLE 7
Percentage analysis of employees, by full and part-time employment and sex, 1976 (a)
Packaging products of paper, board and associated materials, minlmum IIst heading 482

| Sex | Full-time | Part-time |  |
| :--- | :--- | :--- | :--- |
|  | per cent | per cent |  |
|  | 62 | 1 | per cent employees |
| Male | 28 | 9 | 63 |
| Female | 28 |  | 37 |

Source: Department of Emp loyment

The percentages relate to the numbers employed (excluding working proprletors) in the United
Kingdom in minimum list heading 482 at end June, 1976 in


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Reprographic Unit, Cardiff
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Notes
These notes give the main information needed for Interpreting the figures in the Industry Business
Monitors: more detalied information about the Montors: more detalied information about the PA1001 (introductory Nopes) of the Report on the Census of Production, 1976.
general information
Changes made for 1976 is in line with similar
The Census for 1976 is inquiries belng conducted in other member countries of the European Economic Communities. There was a
small number of changes in the scope of the small number of changes in the scope of the
Industry reports compared with 1975 . These include separate headings for:
Sales of goods produced
Sales of goods produced
Recelpts for work done and industrial services rendered Amounts paid for hire of plant and machinery and
Amounts paid for rent of industrial and
commercic changes are explained in the introductions
Specific cher Specitic 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 following provisions shall have effect with respect to any report, summary or other
communication to the public of information obtained under the foregoing provisions of this Act in compliling any such report, summary or
communication the competent authority shall so arrange it as to prevent any particulars published therein from being identifled 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 that undertaking, as the case may be; but this provision shall not prevent the disclosure of the
total quantity or value of any articles produced total quantity or value of any articles produced,
sold or delivered; so, however, that before sol or ing any such totai the cometent authority
disclosing hat
shall have regard to any representations made to them by any person who alleges that the disclosure thereof would enable particulars relating
to him or to an undertaking carried on by him to if deduced from the total disclosed."
if a figure involved disclosure the contributor If a figure involved disclosure the contributor
concerned was somet imes asked to give permission concerned was sometimes asked to give permission
for its publication. In the majority of cases
permission was iven. When it was refused and permission was giver not approached the tigure
where contributors were
has been suppressed, either by combining it with has been suppressed, elther by combining it with
other figures, or as in the regional tables, by other figures, or as in the
omitting the figure altogether

Symbols used
The toll lowing symbols are used throughout the PA
series of Business Monitors: not avallable
\# nll or less than half the final digit shown
figures cannot be shown owing to the risk of
disclosing information about individual enterprises
revised

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

Industrial classification
The United Kingdom Standard Industria
Classification (SIC) was first issue in was subsequently revised in 1958 and 1968. exists to promote uniformity and comparablility
the official statistics of the United Kingdo the official statistics of the United Kingdo The general principles indowed are Classificatio of all Economic Activities of the United Nation Statistical Office but the United Kingdom industry and trade as it exists in the Unite Kingdom. The SIC is a classification by activity
and is not a commodity classification. However, and is not a commodity classification. However
an index of all cormmodity headings for whic
sales data are provided in the Quarterly Busines saless data ar provided in the Quarterly Business
Monitors, is published in Business Monitor PQ1000 Statistical units
Statistical units
The statistical unit for the purpose of the Cens
is the establishment is the establisument which is defined in the S
as the smallest unit which can provide t as the smallest unit which can provide tho
information normally required for an economic information normally required for an economm
census, for example, employment, expenses, trin over, capital formation. Usually the princip
activities carried on in an establishment fall within a single heading of the classiflcati (e.g. steel making or sugar refining). Typlicaly
the establishment embraces all the activitie
carried on at carried on at a single address e.g. a farm, a mine or a factory, including those which are anclila
to the principal activities. Frequently distin activities characteristic of different industri are carried on at one address, but normally are not classifled separately and the establishment is classified according to the mat
activity. If, however, the required range of da
can be provided can be provided for each activity, each is take to constitute a separate establishment. Sometimes
activities which are conducted as activities which are conducted as a single
business are carried on at a number of addresses, Where this is so, businesses are asked to provi the full range of separate information in respe different. Their activities may, however,
integrated to such an extent that they constitu a single establishment. In the latter case th
establishment is defined to cover the combine establishiment is defined to cover the comblat addresses (termed loc
activities at these at are obtained
units). Separate figures are employment and net capital expenditure at unit in order to complle regional tables.
Efforts are made by the Business Statistics Efforts are made by the Business Statistics Off to ensure, by negot lating with respondents, tocal units or addresses in more than one of countries of the United Kingdom.
Further information about the statistical Further information about the statistical in in an articte "The statistical unit appeared in an articie "The statistical unit in 1971. Establishments are asked to exclude from thei returns particulars relating to any department
engaged in production e.g. merchanting, transpor enarehousing, for which they keep a separate set accounts. Transfers of goods produced to
departments are treated as sales and responden departments are reated as sales as assible as sold to an independent purchaser. Where separ accounts are not kept they are asked to inclu detalis of all these activities in their return,
Particulars relating to head offices mainly engaged in the administration of the product
units within the scope of the census Included. Whers more than of the return was made apportioned among them. For certain purposes in the annual censuses
production (especially the enterprise analyses of Business Monitor PA1002) related establishments are combined. For these purposes an enterprise
group may be defined as a business consisting of
and anderestablishment or two or more elther a single establishment or two or more
testablishments under common ownership or control estabilishments under common ownership or control.
bringing together establishments into enterprise groups is also necessary for the purpose of
ensuring that there will be no disclosure of the activities of any one enterprise group.
information about the relationship of establishments, the changing structure of groups of companies and about common ownership links is
obtained from many sources, including the stock Exchange Year Book, company reports, press reports
and information supplied by individual establish-

HE REGISTER
Ne register permits a questionnaire to be sent
irect to the reporting establishment on which he latter can include information relating to al manufacturing (or local) units which it he Inquir les provide a major source of information or act as a check on its detall and structure or the establiskments on the register making returns to the quarterly inquiries, the industrial
classification is derived from an analysis of their cales of commodities and is reviewed annually.
sale sales of commodites and is reviewed annually,
mployment data are entered on the register from returns to the annual census of production. In
cases where an establlishment does not make a return cases where an estabilshment does not make a return
to these inquir les the employment data are based on information provided by the Department of Employnent from the annual censuses of employment.
Establishments with 20 or more
included in the censuses oach yore employees are
and the informanchen an they the censuses each year and the inform-
ation the to census is supplemented by the returns that those with 25 or more employees rovide to the cuarterly inquiries. Information
bout establishments with fewer than 20 employees about establishments with fewer than 20 employees
in most industries is less securely based, but Increasing use has been made of data on these small establishments supplifed by the Department of
Employment. One benefit of using this information Employment. One benetit of using this information
is an improvement in the estimates of the number of smaller establishments and enterprises, but there litlle effect on other aggregates (e.g. employ-
coverage
roturn was required in the 1976 Census from each establishment with 20 or more employees. Each
ostablishment is classified to an industry, as efined in the SIC, whose principal products form the major part of the establishment's sales.
egions
The regions defined in Table 5 take account of the changes arising out of the Local
Overnment Act 1972 and the Local Government Act (Scotland) Act 1973. These changes came into effect in pril 1974 In England and Wales and May 1975 in

## ERMS USED IN THE CENSUS REPORT

stablishments employed persons on the payroll on average during the year of return, whether full-time or part-time
employees. Separate figures were required for:
(a) administrative, technical and clerical employees
all other
employees (operatives)
Nverages could be calculated from the figures elating to the last week of each calendar month.
istablishments were also required to state the
number of working incoprletors where appropriate
and these are included in total employment figures. Outworkers ( $1 . e$. persons employed by
establishments establishments who worked in their own homes etc.
on materials supplied by the estabilshment are excluded. The figures include persons engaged on merchanting or factoring and canteen workers where particulars in respect of hese activities could Whese include props
employed" for natlonal regarded as "selfemployed" for natlonal Insurance purposes and
members of their familites who worked in the
business withoutr business without recelving a wage or salary; but
such persons who worked less than halt the such persons who worked less than half the normal
number of working hours are excluded. Directors number of working hours are excluded. Directors
working in the business but not in recelpt of a definite wage, salary or commission are Included under this heading: directors paid by fee only are

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

Capital expenditure
Capital expenditure during the year in respect of manufacturing .units where production had not
started before the end of the year is included. Establishments were asked not to deduct from the value of capital expenditure amounts received or
expected to be recelved in arants or allow from the Government or any statutory body or local authority. Establishments with 100 or more employees were asked to include a total net (a) New building work of new bullding the cost incurred during the year be used in connection with constructional work to business covered by the return. The value is that charged to capital
account during the year of return; it includes expenditure on new bulldings and on the extension or reconstruction of old buildings, the value of works of a capital nature carried out by the
establishment's own staft and the cost of any newly constructed buildings. purchased. Figures shown include lega
commissions, etc.
(b) Land and existing buildings
The items shown are the capital cost of freeholds
purchased and the capital cost or premium payable purchased and the capltal cost or premium payable assets acquired in taking over an existing business), and the amounts recelvable for freeholds or leaseholds disposed of. The value is
that charged to capltal account during the year of
(c) Plant, machinery and vehicles
The items shown and
 second-hand, ond the amount received for items
disposed of during the year. The value of plant disposed of during the year. The value of plant
and machinery acquired includes plant, etc. which
firms produced for their own use in connection with the business covered by the return. The value of
plant, etc. acquired is the expenditure charged to plant, etc. acquird
capital account during the year of return less any capital account during the year of return less any
discounts recelved, but including the cost of
 tax is excluded but non-deductible value added tax on motor cars acquired is included. No deduction
is made for depreclation, amortization or obsolesis made for depreclation, amortization or obsoles-
cence. The proceeds of items disposed of during
the year exclude amounts written-off for items the year
scrapped.

Cost of Industrial services
Cost of industrial services
This includes amounts payable to other firms for
work done on matertals supplied by the establishwork done on materlals supplied by the establish-
ment payments for repairs and maintenance and amounts paid to other firms have been sublet. Payments to outworkers are excluded.

Cost of non-industrial services
This includes rent of industrial and commercial buldings, hire of plant and machinery, commerclal
insurance premiums, bank charges and amounts paid insurance premiums, bank charges and amounts paid for professional services,
transport, advertising etc. Amounts payable on
royal royaltigs for the right to use patents, trademarks,
copyrights etc., manufacturing and quarrying rights copyrights etc., manufacturing al and quarryin
and technical

Gross output
In the calculation of gross output the value of In the calculation of gross output the value of
total sales and work done is increased by the rise tor reduced by the fall) during the year in the
lor to
value of work in progress and goods on hand for cor real
value
sale.

## Net output

Net output, a customary census measure, is
calculated by deducting from gross output the cost calculated by deducting from gross output the cost of purchases (reduced by the rise, or increased by
the fall, during the year of stocks of materials etc.) and the cost of industrial services received, and where applicable, dutles etc
Net output per head
The figures of net output per head are derived by
dividing the net output by the average number of The figures of net output per head are derived by
dividing the net output by the average number of
persons employed (full and part-time) on all activities covered by the returns, including
operatives, administrative, technical and clerical operatives, administrative, technical and clerical
employes and working proprietors, but excluding outworkers.
Gross value added at factor cost
Goss value added at factor cost is calculated by deducting from net output the cost of non-
industrial services (e.g. rent of buildings, hire industrial services (e.g. rent of buildings, hire
of plant and machinery, commercial insurance of plant and machinery, commercial insurance
premlums, 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 defintion 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 head are derived by dividing the gross value added
by the average number of persons employed (full and by the average number of persons employed (full and
partttime) on all activities covered by the returns, including operatives, administrative,
technical and clerical employees and working technical and clerical employees an
proprietors, but excluding outworkers.

Purchases
Purchases include the cost of raw materials,
components, semi-manufactured goods and workshop
materials; of replacement parts and consumat tools not charged to capital account; of packable materials of all types; of stationery and printed matter; of fuel, electricity and water; of
materials to be used by the establishment or give out to other establishments for the production
machinery or other capital it machinery or other capital items for the estab-
IIshment's own use establishment when of materials for use by the customers: and of wood, on goods supplied by covered by the of food, etc. for any canteen of goods to the establishment from another department of the same firm not covered by th
establishment's return are included at estabishment's return are included at a cost
corresponding to the estimated sel ling val recorded by the other department. Amounts payable transpnsport firms or credited to the firm's own excluded department for dellivery of materlals a excluded, as are all purchases of machinery a
plant charged to capital account. Purchases goods for merchanting or factoring have been col lected separately since 1973. The values shown
exclude VAT. They include, in addition to the exclude VAT. They include, in addition to the actual purchase price, the value of packaging
material charged to the establishment. The value of returned goods or packaging material returned
 The cost of transport is included only if it it is
included with the purchase price in the firms inc cost of th the purchase price in the firm's
incounts. imported goods are included at thelr
accoll accounts. Imported goods are included at their
full del ivered cost. If in the firm's accounts the
transport from docks or the col.t. plus duty (if applicable). Leasing, renting
c. 1 . and hire purchase charges are excluded.

Sales of goods produced
Sales for the purposes of the annual censuses means deliveries on sale of goods made by estab-
Iishments in the United Kingdom covered by the inquiry. Sates of goods made for these establishments by outworkers or by other establ ishments from materials given out to them and sales
waste products are included. New building wor waste products are included. New bulding
and machinery or other capital items produced establishments for hiring out or leasing regarded as sales, the value or included in the
return being that return being that adopted in the establishments'
capltal asset accounts. Forward sales and canteen takings are excluded. All sales in the period of the inquiry are included irrespective of when the
goods were manufactured. Goods produced in goods were manufactured. Goods produced in one
establishment and transferred el ther to ancillary departments not engaged in production for which
there are separate accounts, or to another establishment of the same firm not covered by the
return, are treated as sales by the producing return, are treated as sales by the producing
establishment and valued as far as possible as if they had been sold to an independent purchaser. Goods transferred to wholesale or retail selling
organisations, for which separate accounts are organisations, for which separate accounts are
kept are valued on the same basis. kept are valued on the same basis.
The value shown for sales is the selling
value" defined as the amount (excluding value value" defined as the amount (excluding value
added tax) charged to customers whether on an added tax) charged to customers whether on an
ex-works or dellivered basis, after any trade ex-works or delivered basis, after
discounts and agents, commissions deducted. The cost of packing materlals allowance for returnable cases is included. Industries where products attract Excise Duty
value stated is usually inclusive of duty if duty-pald and exclusive of duty if sold in bond a exported.
Work done and industrial services rendered Figures for work done represent the amount charge

for work carried out on materials supplied by | for work carrled out on materlals supplied by |
| :--- |
| customer and include repalr work. Within certal |

Industries this heading covers a wide variety of activities, for example, within the food sector
butter packed on comission; within the textile butter packed on commission; within the textile
industries - making up of garments, fur dressing
 lisking and binding. Work done is also significant
nating in the electrical machinery and heavy engineering industries, covering erection, installation and
octivities within repair and jobbing work. Other activities within
this heading include exploration work, research and development, glass cutting and dressing and planing
Of timber.
Industriai services rendered include repairs and Industrance, installation work, and technical
malntenancen
research 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' own out during the year by
staff for their own use.

Non-industrial services rendered
This includes rents received
This includes rents received for commercial and Industrial buldings, amounts charged for hiring
out plant, machinery and other goods and amounts out plant, machinery and other goods and amounts
charged to other organisations for the provision of transport. it also includes amounts received for
the right to use patents, trademarks, copyrights oright to use patents, trademarks, copyrights
c., manufacturing and quarrying rights and techetco, manufacturing and quarrying rights and tech-
ncal mknow-how" and revenue from such staff
tacillies as canteens. facillties as canteens.
Goods merchanted or factored
Merchanted goods are those (excluding canteen
sales) sold without having been subjected to any manufacturing process by the seller.
Stocks and work in progress
Values are given of stocks
values are given of stocks of goods on hand for
sale and of materials, stores and fuel, at the end of the year of return and of the change during the
year, including any stocks year, including any stocks of goods held for defined as materials which have been partially processed by the establishment but which are not
usually sold or transferred to another estabusually sold or transferred to another estab-
lishment without further processing. The values Include the cost of mater lals consumed and labour used, together with a margin of overhead costs and
profits. Progress payments made to subProgress payments made to sub-
contractors are excluded and progress payments
recelved from other organisations received from other organisations are not
deducted

Mages and salarles
These are amounts paid during the year to
operatives and to administrative, technical and operatives and to administrative, the year to
cler cal employes. and
propriators, whether to morking proprletors, whether called salaries or not, are
excluded. The values shown include all overtime
payments, bonuses and commisslons, whether paid payments, bonuses and commisslons, whether paid
regularly or not, and no deduction is made for Income tax, insurances, contributory pensions etc.
The value of redundancy payments less any reimbursed of redundancy payments less any amounts
fromernment sources is included. The value of any payments in kind, travelling
expenses etc. Is excluded.
Remuneration paid to outworkers
The remuneration pald to outworkers (1.e. persons
employed by the estabilishment who do their work in omployed by the establishment who do their work in
their own homes) Is generally on a plece-work
basis anly amounts pald to outworkers appear on the establishment's payroll are Included. Amounts paid to outworkers by sub-contractors are
oxcluded. xcluded.
Employers' Insurance and welfare contributions his Item Includes employers' contributlons to
national insurance and graduated pensions (and/or natlonal insurance and graduated penslons (and/or

Social Security Act, 1973) as well as commercial Insurance premlums to provide pensions, superannuation or other retirement benefits, sickness
benefits, personal accident benefits, disabllity or death benefits for employees or former employees or their dependants. Contributlons to
the running costs of canteens, social contres, the running costs of canteens, soclal contres,
children's and hollday homes, etc. for employees, children's and hollday homes, etc. for employees,
former employees and their dependants are al so
included former
included.
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