## PA 12

## Business Statistics Office

## Business Monitor

## 1978

## Report on the <br> Census of Production

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& \frac{42}{R 834}
\end{aligned}
$$

## Bread and flour confectionery

## Business Monitor

Report on the
Census of Production 1978
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. Business Monitors have a code P (for production) followed first by $A$ (indicating that it is an annual series) or $\mathbf{O}$ (occasional) or $\mathbf{Q}$ (quarterly) o $M$ (monthly): and then by a number indicating the mist heading, of the Standard Industrial Classification (revised 1968).
The Census of Production (PA) reports are available on standing order (details on application to Her SE1 9NH. Telephone 01-928 6977), although they are not included in the global subscription arrangements for the Business Monitor series.

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## Bread and flour confectionery

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 )

[^0]the information in this report relates to establishments classified to the Bread and flour confectionery industry, minimum list heading 212 in
the Standard Industrial Classification (revised 1968). The activities of the industry include:-
 Making bread, cakes, pastries, pies forner than meat ples), pudaings
bakehouses (i.e. bakehouses with fewer than 25 employees) attached to bakers's shops 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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| PA218 | Fruit and vegetable p | PA390 | Engineers' small |
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| PA221 | Vegetable and animal oils and fats | PA392 | Cutlery, spoons, forks and plat |
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| PA229.2 | Starch and miscellaneous foods | PA394 | Wire and wir |
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| PA274 | Paint | PA417.2 | Warp knitting |
| PA275 | Soap and detergents | PA418 | Lace |
| PA276 | Synthetic resins and plastics materials and | PA419 | Carpets |
| PA277 | Dyestuffs and pigments | PA422.1 | Household textiles and handkerchie |
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| PA279.1 | Polishes | PA423 | Textile tinishing |
| PA279.2 | Formulated adhesives, gelatine, etc | PA429.1 | Asbestos |
| PA279.3 | Explosives and fireworks | PA429.2 | Miscellaneous textile industries |
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| PA279.5 | Printing ink Surgical band | ${ }_{\text {PAA } 432}$ | Leather goods |
| PA279.7 | Photographic chemical materials | PA441 | Weatherproof outerwear |
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| PA312 | Steel tubes | PA443 | Women's and girrs' tailored outerwear |
| PA313 | Iron castings, etc. | PA444 | Overalls and men's shirts, underwear, etc. |
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| PA323 PA331 | Miscellaneous base metals | PA449. 1 | Corsets and miscellaneous dress industries |
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| PA333.3 | Compressors and fluid power equipment | PA462 | Pottery |
| PA334 | Industrial engines | PA463 | Glass |
| PA335 | Textile machinery and accessories Construction and earth-moving equipment | ${ }_{\text {PA4 } 464}$ | Cement Abrasives |
| РА 337 | Mechanical handling equipment | PA469. 2 | Miscellaneous building materials and mineral products |
| PA338 | Office machinery | PA471 | Timber |
| $\begin{aligned} & \text { PA33.1 } \\ & \text { PA } 139.2 \end{aligned}$ | Mining machinery Printing, bookbinding and paper goods machinery | PA472 | Fürniture and upholstery Bedding. etc. |
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|  | ventilating and air-conditioning equipment | PA475 | Wooden containers and baskets |
| PA339.5 | Scales and weighing machinery and portable power tools | $\begin{aligned} & \text { PA479 } \\ & \text { PA481 } \end{aligned}$ | Miscellaneous wood and cork manufactures Paper and board |
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| PA339.9 | Miscellaneous (non-electrical) machin | PA483 | Manufactured stationery |
| PA341 | Industrial (including process) plant and steelwork | PA484. 1 | Walcoverings Miscellaneous manufactures of paper and board |
| PA342 | Ordnance and small arms |  | Mristion <br> Miscellaneous manufactures of paper and board |
|  | Precision chains and other mechanic | PA489 | General printing and publishing |
| PA351 | Photographic and document copying equipment | PA491 | Rubber |
| PA352 | Watches and clocks | PA492 | Linoleum, plastics floor-covering, leathercloth, etc. |
| PA353 | Surgical instruments and appliances | PA493 | Brushes and brooms |
| PA354 | Scientific and industrial instruments and systems | PA494.1 | Toys. games and children's carriages |
| PA361 | Electrical machinery | PA494. 3 | Sports equipment |
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| PA363 | Telegraph and telephone apparatus and | PA496 | Plastics products |
|  | Radio and electronic components | PA499. 2 | Miscellaneous manufacturing industries |
| PA365. 1 | Gramophone records and tape recordings | PA500 | Construction |
| PA365.2 | Broadcast receiving and sound reproducing equipment | PA601 <br> PA602 | Gas Electricity |
| PA366 | Electronic computers | PA603 | Water supply |
| ${ }_{\text {PA367 }}$ | Radio, radar and electronic capital goods Electrical apoliances orimarily for domesicher | PA1002 | Summary tables |

Animal and poultry foods
Veegtable and animal oils and fats
Margarine and animal oils and fats
Starch and miscellaneous foods
Brewing and mal ting
Soft drinks
Soirit distilling and compounding
British wines, cider and perry
Tobacco
Coke ons and manufactured fuel
Mineral ooil efining
Lubricating oils and greases
Inorganic chemicals
Organic chemicals
Miscellaneous chemicals
Pharmaceutical chemicals and preparations
Toilet preparations
Paint
PA275
PA276
synthetic rubber
Dyestuffs and pigments
Fertilizers
Pol ishes
Formulated adhesives, gelatine, etc
adhesives, gelat
and fireworks
d pesticides, etc.
Surgical bandages, etc.
Iron and steel
Steel tubes
Iron casting
Iron castings, etc
Aluminium and
Clumpinim and aluminium alloys
Coper brass and other copper alloys
Miscellaneous base metals
Miscellaneous base metals
Agriciultural machinery (except tractors)
Metal-w
Pamps
Valves
Compressors and fluid power equipment
Textile machinery and accessories
Construction and earth-moving equipment
Mechanical hand ling equioment
Office machinery
Mining mach iner
A 339.2 Printing machinery , oookbinding and paper goods machinery
, machinery, space-heating,
PA339.5 Sentilating and and weighondition machinery equipment portable
PA339.7 7 power tools drink processing mach hinery and
3399 Miscellane and botrelectricainery
PA339.9 Miscellaneous (non-electrical) mach inery
Ordnance and small larms
Ball, roller, plain and other bearings
2 Precision chains and other mechanical engineering
Surgical instruments and appliances
Scientific and industrial instrumes
Electrical machinery
Insulated wires and cables
Telegraph and telephone apparatus and
Radio and electronic components
A365.2 Broadcast receiving and sound reproducing
PA366 Equipment
$\begin{array}{ll}\text { PA366 } & \text { Rectronic compuers } \\ \text { PA3668 } & \text { Radio radar and electronic capital goods } \\ \text { Electrical appliances primarily for domestic use }\end{array}$

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PA369.1 Electricar equipment for motor veri
M
accessories, etc.
    Wheeled tractor manufacturing
    Trailers, caravans and freight containers
    Motor cycle, tricycle and pecal cycle manufacturing
    Aerospace equipment manufacturing and repairing
    l
    Engineers' small tools and gauges
    Cutler, spoons, forks and plated tableware, etc.
    Wire and wire manutactures
    Wire and wire manufactur
    \ Jewellery and brecious metals
    Drop forgins, etc.
    Miscellaneous metal manufacture
    Mroduction of man-made fibres 
    Weaving of cotton, linen and man-made fibres
    Rope, twine and net
    Hosiery and other knitted goods
    Lace
    N Narrow fabrics 
    C
    M
    Miscellaneous textile industries
    Leather (tanning and dressing) and fellmongery
    Weatheroroof outerwear
    Men's and boys' tailored outerwear
    Overalls and men's shirrts, underwear etc.
    Dresses, lingerie, infants' wear, etc.
Cots, caps and millinery and miscellaneous dress industries
Gloves
Refractory goods 
    l
    Glass
Cement
    Miscellaneous building materials and mineral products
    Timber 
    Bedding, etc.
    Wooden containers and baskets
    Miscellaneous wood and cork manufactures
    \ Cardbaird boxes, cartons and fibre-board packing cases
        ucts of pap
    Wallcoverings manufactures of paper and board
    Mrinting. publishing of newspaper
Rubber, llastics floor-covering, leathercloth, etc.
Mrushes and brooms 
    M
    Plastics products
    Miscellaneous manufacturing industries
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$6 \quad \begin{aligned} & \text { Percentage analysis of twelve-month periods covered by returns received from United } \\ & \text { Kingdom establishments, } 1978\end{aligned}$ ..... 7 ..... 7
7 Percentage analysis of employees, by full and part-time employment and sex, 19778

|  | Unit | 1974 | 1975 | 1976 | 1977 | 1978 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Enterprises | Number | 956 | 947 | 1,045 | 1,167 | 1,113 |
| Establishments | " | 1.213 | 1.187 | 1,277 | 1,410 | 1,344 |
| Sales of goods produced, work done and industrial services rendered | £ thousand | 725,293 | 895,108 | 1,004,580 | 1,139,014 | 1,235,994 |
| Capital goods produced for establishments' own use | " | 238 | 192 | 168 | 246 | 98 |
| Non-industrial services rendered | " | 1,418 | 3,037 | 4,218 | 3,346 | 3,901 |
| Goods merchanted or factored | " | 110,334 | 129,294 | 145,437 | 172,174 | 183,789 |
| Total sales and work done (c) | " | 837,283 | 1,027,631 | 1,154,403 | 1,314,781 | 1,423,781 |
| Increase during the year, stocks of goods on hand for sale | " | 448 | 1,108 | 757 | 985 | 1,538 |
| Gross output | " | 837,730 | 1,028,739 | 1,155,160 | 1,315,766 | 1,425,319 |
| Purchases of materials for use in production, and packaging and fuel | " | 429,069 | 500,420 | 561,713 | 614,339 | 674,822 |
| Purchases of goods for merchanting or factoring | " | 80,089 | 97,948 | 108.794 | 126,240 | 135,397 |
| Increase during the year, stocks of materials, stores and fuel | " | 6,899 | 59 | 4.151 | 6.181 | 5,924 |
| Cost of industrial services received | " | 12,727 | 17,845 | 21,014 | 24,933 | 25,883 |
| Bread subsidy (net) (c) | " | -34,051 | -65,322 | -50,095 | $-17,829$ | -99 |
| Net output | " | 356,795 | 477,908 | 517,886 | 547,262 | 595,240 |
| Total emoloyment (d) | Thousands | 149.3 | 145.3 | 138.1 | 139.6 | 129.6 |
| Net output per head | £ | 2,390 | 3,289 | 3,751 | 3,921 | 4,593 |
| Payments for non-industrial services |  |  |  |  |  |  |
| Hire of vehicles, plant and machinery | f thousand | 4,480 | 6,374 | 1,700 | 2,729 | 3,137 |
| Rents of industrial and commercial buildings | " | (e) | (e) | 6,055 | 7,233 | 7,952 |
| Commercial insurance premiums | " | 3,247 | 3,811 | 4,430 | 5.080 | 5,104 |
| Bank charges | " | 374 | 507 | 504 | 591 | 705 |
| Other non-industrial services | " | 12,640 | 17,699 | 19,390 | 23,340 | 28,577 |
| Licensing of motor vehicles | " | 1,985 | 2,395 | 2,689 | 2,897 | 2,990 |
| Rates, excluding water rates | " | 7,866 | 10.110 | 10.647 | 11,295 | 11.555 |
| Gross value added at factor cost | " | 326,203 | 437,012 | 472,471 | 494,098 | 535,221 |
| Gross value added at factor cost per head | £ | 2,185 | 3,008 | 3,422 | 3,540 | 4,130 |

[^1]TABLE 3
Stocks and work in progress, $1974-1978$
All United Kingdom establishments classified to the industry (a)


Analysis of establishments by size, 1978
All United Kingdom ests

| Total sales and work done (g) | Gross output | Net output |  | Gross value added at factor cost |  | Net capital expenditure (h) | Total stocks 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 | £ | £ thousand | £ thousand |
| 171,163 | 171,863 | 75,153 | 4,112 | (j) | (j) | 11,837 | 9.631 |
| 127,498 | 127,564 | 54,657 | 4,662 | 117.410(j) | 3,914(j) | 4.513 | 3,966 |
| 108,230 | 108,275 | 43,368 | 5,004 | 38,469 | 4,439 | 2,085 | 3,296 |
| 153,065 | 153,340 | 62,424 | 4,903 | 57,981 | 4,554 | 8,469 | 5,299 |
| 154.014 | 154,037 | 59,179 | 5,079 | 53,845 | 4,621 | 2,848 | 4,239 |
| 215,240 | 215,146 | 88,486 | 4.674 | 80.140 | 4,233 | 6,369 | 8,157 |
| 173,777 | 173,860 | 75,421 | 4,359 | 68,931 | 3,984 | 3,839 | 4,140 |
| 112,614 | 112,682 | 49,789 | 3.707 | 44,868 | 3,341 | 5.665 | 3.755 |
| 208,180 | 208,553 | 86,763 | 5.140 | 73,576 | 4,359 | 3,032 | 7,488 |


| Total | 1,344 | 1,113 | 129,595 | 113,520 | 15,200 | 298,194 | 2,627 | 48,891 | $\mathbf{3 , 2 1 7}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

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

Average number employed, including full and part-time employees (see table 7 ) and working proprietors.
(c) 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. more than one size group.
d) Including working proprietors.
(e) Administrative, technical and clerical employees.

| $1,423,781$ | $1,425,319$ | 595,240 | 4,593 | 535,221 | 4,130 | 48,658 | 49,971 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

(f) The cost of employers' contributions to national insurance, pensions and welfare schemes and the running costs of canteens, is
estimated for the industry at $£ 49,060$ thousand. -
(g) Sales of goods produced, capital goods manufactured and buildings constructed by establishments for their own use, work done, Sales of goods produced, capital goods manufactured and buildings con
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 employing $1-199$.

Regional distribution of employment, net capital expenditure, net output and gross value added at factor cost, 1978

| Area | Total employment (b) |  | Net capital expenditure (c) |  | Net <br> output (d) | Gross value added at (d) | Gross value added at factor cost returned 80 per cent or more of their employment in the region as a proportion of total factor cost in the region |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Thousands | per cent of United Kingdom | £ thousand | per cent of <br> United <br> Kingdom | £ thousand | £ thousand | percentage |
| Standard regions of England |  |  |  |  |  |  |  |
| North | 8.9 | 6.8 | 3,214 | 6.6 | 28.819 | 24,782 | 77.7 |
| Yorkshire and Humberside | 12.3 | 9.5 | 3.699 | 7.6 | 62,152 | 54,749 | 64.8 |
| East Midiands | 6.7 | 5.2 | 3,751 | 7.7 | 30,285 | 27,284 | 69.9 |
| East Anglia | 3.0 | 2.3 | 1,033 | 2.1 | 15,406 | 14,215 | 77.7 |
| South East | 30.7 | 23.7 | 11,035 | 22.7 | 141,412 | 126,952 | 67.7 |
| South West | 9.2 | 7.1 | 3.603 | 7.4 | 41,250 | 37,120 | 83.9 |
| West Midlands | 11.8 | 9.1 | 4,565 | 9.4 | 62,505 | 57,030 | 87.4 |
| North West | 21.5 | 16.6 | 8,997 | 18.5 | 100,929 | 92,402 | 72.5 |
| England | 104.0 | 80.3 | 39,897 | 82.0 | 482,756 | 434,534 |  |
| Wales | 4.6 | 3.6 | 2,398 | 4.9 | 21,035 | 18,500 | 64.5 |
| Scotland | 16.3 | 12.6 | 4,765 | 9.8 | 67,040 | 59,700 | 78.9 |
| Great Britain | 125.0 | 96.4 | 47,060 | 96.7 | 570.832 | 512,734 |  |
| Northern Ireland | 4.6 | 3.6 | 1,598 | 3.3 | 24,408 | 22,487 | 97.5 |
| United Kingdom | 129.6 | 100.0 | 48,658 | 100.0 | 595,240 | 535,221 |  |

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census.
(b) Average number employed, including full and part-time employees (see table 7 ) and working proprietors.
(c) New building work plus acquisitions less disposals of land and existing buildings, vehicles and plant and machinery.
(d) Where a census return covered addresses in two or more regions, an estimate of the net output attributable to each address was made by assuming that net output was prossostron itwonte or momere regionsent. An estimate of the net output attributate for each region was obtained by ach agregating estimates of
net output for addresses located in that region. Gross value added at factor cost is treated similarly. by assuming that net output was proportionate to employment. An estimate for each region was ob
net output for addresses located in that region. Gross value added at factor cost is treated similarly.

Parly fis of twelve-month periods covered by returns received from United Kingdom establishments. 1978


The percentages relate to the numbers employed (excluding working proorietors) in the United Kingdom at mid-June, 1977.

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

Notes
These notes give the main information needed for interoreting the figures in the industry Business Monitors: more detailed
information about the census is given in a separate Business Monitor PA 1001 (Introductory Notes) of the Report on the Census of Production, 1978.
gENERAL INFORMATION
Changes made for 1978 is line with similar inquiries being
The Census for 1978 is conducted in other member countries of the European Economic Communities.
The census differed
from earlier censuses in three respects. The census differed from earlier censuses in three respects.
Sampling was introduced for establishments employing 20 to 49 Samplingasple of smaller units was selected. A new question on the leasing of capital assets was included for 1978 only. This will
provide register information for use in related inquiries into leasing. Suppression of information relating to individual undertakings Suppression of information relating to individual undertakings
Section $9(5)$ (b) of the Statistics of Trade Act 1947 states.
"The "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 Actin compiling 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
particulars relatiting to any individual person or undertaking
except witth the previous consent in writing of that person or the except with the previous consent in writing of that person or the
person carrying on that undertaking, as the case may be; but person carrying on that undertaking, as the case may be; but
this provision shall not prevent the disclosure of the total this provision shall not prevent the disclosure of the total
quantity or value of any articles produced, sold or delivered; so, however, that before disclosing any such total the competent
authority shall have regard to any representations made to them by any person who alleges that the disclosure thereof them by any person who alleges enable particulars relating to him or to an undertaking carried on by him to be deduced from the total disclosed".
"as If a figure invoived disclosure the contrission for its publication. In the
sometimes asked to give permission
majority of cases permision was siven. When it was refused and
where contributors were not aporoached the figure has been where contributors were not approached the figure has been
suopressed, either by combining it with other figures, or as in the regional tables, by omitting the figure altogether.

## Symbols used

The following symbols are used throughout the PA series of
Business Monitors:
usiness Monitors:
not available
nil or less than
nil or less than half the final digit shown
figures cannot be shown owing to the risk of disclosing
R revised
Rounding of figures
Figures in the tables have, where necessary, been rounded to the Figures in the tables have, where necassary, been 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
Industrial classification
The United Kingtom Standard Industrial Classification (SIC) was
first issued in 1948 and was subsequently revised in 1955 and The United Kingdom Standard Industrial Classification (SIC) was
first isted in 1948 and was subsequently revised in 1958 and
1988 1968. It exists to promote uniformity and comparability in the official statistics of the United Kingdom. The general principles
followed are those of the International Standard Industria Classification of all Economic Activities of the United Natrion Statistical 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 sales data are provided in the Quarterly Business Monitors, is published in Business Monitor PQ 1000.

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 in
example, employment, expenses, turnover, capital formation. Usually the principal activitites carried on in an establishment fall within a
single heading of the classification (eg steel single heading of the classification (eeg steel making or sugar
refining). Typically the establishment embraces all the activities carried on at a single add ress eg a mine or a factory, including those which are ancillary to the principal activities. Frequently distinct
activities characteristic of different industries are carried on at one activities characteristic of different industries are carried on at one
address, but normally these are not classified separately and the whole establishment is classified 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.
Sometimes activities which are conducted as a single business are Sometimes activities which are conducted as a single business are
carried on at a number of addresses. Where this is so, businesses are asked to provide the full range of information in respect of each
address, whether or not the activities are different. Their activities address, whether or not the activities are eitferent. ther cactivities
may, however, be integrated to such an extent that they constitute may, hingle establ lishment. In the latter case the establishment is defined to cover the combined activities at these addresses Itermed local
units). Separate figures are obtained of employment and net capital units). Separate figures are obtained of employment and net capital
expenditure at each unit in order to compile regional tables. Efforts expenditure by the Business Statistics Office (BSO) to ensure, by negotiating with respondents, that the return from an establishment
does not cover local units in more than one of the countries of the does not cover local units in more
United Kingdom
Establishments are asked to exclude from their returns particulars relating to any department not engaged in production eg merchanting, transport, warehousing, for which they keep a separate set of
accounts. Transfers of goods produced to such departments are accounts. Transfers of goods produced to such departments are
treated as sales and respondents are asked to value them as far as possible as if sold to an independent purchaser. Where separate accounts are not kept they Particulars relating to head offices mainly 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 were included. Where more than one return was made the information in respect of the head office was apportioned among them.
For certain purposes in the annual censuses of production
(especially the enterprise analyses of Business Monitor PA 1002) related establishments are combined. An enterprise group is defined as a business consisting of either a single estab ish control. Bringing
more establishments under common ownership or contren together establishments into enterprise groups is also necessary fo together establishments into enterprise groups is also disclocsure of the activities of any one enterprise group. Information about the
relationshio of establishments, the changing structure of groups of relationship of establishments, the chnarging structure of groups on
companies and about common ownership links is obtained from many sources, including the Stock Exchange Year Book, company reports, press
establ ishments.

THE REGISTER
The register permits a questionnaire to be sent direct to the relating to all the manufacturing (or local) units which it comprises. The inquiries provide a major source of information for keeping the register continuously yp-to-dote and act as a check on its detail and structure. For the establishments on the register making returns
to the quarterly inquiries, the industrial classification is derived from to the equarterly inquiries, the industrial classificition is derived from
an analysis of their sales of commodities and is reviewed annually. Employment data are entered on the register from returns to the annual census of production. In cases where an establishment does
not make a return to these inquiries the employment data are based on information provided by the Department of Employmen from the annual censuses of employment. New additions to the register are obtained from various sources including the Departmen
of Employment and HM Customs and Excise. The 1973 Finance Act of Employment and HM Customs and Excise. The 1973 Finance Act
allows the latter to pass lists of businesses registered for VAT to the BSO. Where necessary details are sought directly from new businesse
register.

Coverage
recent censuses returns have been required from all establishments employing 20 or more. For the 1978 Census in 68 selected manufacturing industries coverage of establishments in the 20 to 49 hange has relieved some 5800 firms of the need to complete change has relieved some
census return. The Census has included for the first time a small sample (around 10 per cent) of units employing 11 to 19 to meet an Cla EEC requirement to

Regions
The regio
changes The regions defined in Table 5 take account of the boundary
changes arising out of the Local Government Act 1972 and the changes arisingout oft (Scotland) 1973. These changes came into
Local Government Act
effect in April 1974 in England and Wales and May 1975 in

## TERMS USED IN THE CENSUS REPORT

Average number employed
Establishments werer required to state the average number of persons
on the payroll during the year of return. Separate figures were Establishments were reauired to state the average number of persons
on the payroll during the year of return. Separate figures were required for:
(a) administrative, technical and clerical employees (a) administrative, technical and cle
(b) all other employees (operaratives)
Averages could be calculated from the

Avergeses could be calculated from the figures relating to the last
week of each calendar month. Establishments were also required week of each calendar month. Establishments were also required
to state the number of working proprietors where appropriate and these are included in total employment figures. Full-time and
part-time employees are included but outworkers (ie persons employed by establishments who worked in their own homes etc on
materials supplied by the establishment) are excluded. The figures materials supplied by the establishment) are excluded. The figures
include persons engaged on merchanting or factoring and canteen include eprsons engaged on merchanting or factoring and canteen
workers where particulars in respect of these activities could not be excluded from the return.

Working proprietors These include all persons regarded as "self-emploved" for national insurance purposes and members of their families who worked in
the business without receiving a wage or salary; but such persons the business without receiving a wage or salary: but such persons
who worked less than half the normal numer of working hours who worked less than half the normal number of working hours
are excluded. Directors working in the business but not in receipt
of a definite wage, salary or commission are included under this of a definite wage, salary or commission are included under this
heading: directors paid by fee only are not included.

Employees
Administrative, technical and clerical employees include directors in receipt of a definite wage, salary or commission, managers and
works foremen; research and design employees lother than works foremen; research and design emplovees lother than
operatives: ; draughtsmen, editorial staff, advertising staff, travellers operatives): draughtsmen
and all off fice emplovees.
Operatives include all other classes of employees, that is, broadly speaking, all manual wage earners. They include eoperatives employeded
in power stations, transport (including roundmen). warehouses 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 also included, but outworkers are excluded.

Capital expenditure
Capital expenditure during the year in respect of manufacturing is included. Establishments were asked not to deduct from the value of capital expenditure amounts received or expected to be
received in grants or allowances from the Government or any received in grants or allowances from the Government or any
statutory body or local authority. Establishments with 100 or statutry body or local authoritr. Estabishments with 100 or
more employees were asked to include a total net capital
expenditure figure for expenditure figure for each calendar year and to state whether any
of the investment shown in cost of new build ing work, vehicles of the investment shown in cost of new building work, vehicles
or plant and machinery included goods for letting out on hire or
leasing.

## (a) New building work This represents the cos

This represents the cost incurred during the year of new building
and other constructional work to be used in connection with the business covered by the return. The value is that charged to capital account during the year of return; it includes expenditure on new buildings and on the extension or reconstruction of old
buildings, the value of works of a capital nature carried out by the builaings, the value of works of a capital nature carried out by che
establishments own staf and the cost of any newly constucted
buildings purchased. Figures shown include legal charges, stamp buildings purchased. Figures
duties, agents' commissions, etc.
(b) Land and existing buildings
(b) Land and existing buildings
The items shown are the capital cost of freeholds purchased and
the capital cost or premium payable for leaseholds acquired the capital cost or prempium payable for leaseholds accauired
cexcluding the value of assets acquired in taking over an existing lexclucing the value of assets acquired in taking over an existing
business), and the amounts receivable for freeholds or leaseholds business), and the amounts receivable for freeholds or leaseholds
disposed of. The value is that charged to capital account during the year of return.
(c) Plant, machinery and venicles
The items shown are the valu

The items shown are the value of plant and machinery and of received for items disposed of during the year. The value of plan and machinery acauired includes plant, etc which firms produces
for their own use in connection with the busines for their own use in connection with the business covered by the
return. The value of plant, etc acauired is the return. The value of plant, etc acquired is the expenditure charged
to capital account during the year of return less any discounts received, but including the cost of transport and installation.
Deductible alue added ta Deductible value added tax is excluded but non-deductible value
added tax on motor cars accuired is included. No deduction made for depreciation, amortization or obsolescence. The proceeds
of items disposed of during the year exclude amounts written of items disposed of
for items 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 materials supplied by the establishment, payments for repairs and
maintenance lincluding those in respect of rented build maintenance (including those in respect of rented buildings)
and amounts paid to other firms for contracts which have been sublet. Payments to outworkers are excluded.
Cost of non-industrial services
This includes rents of industrial and commercial buildings, hire of plant, machinery and vehicles lexcluding vehicles hired with drivers), commercial insurance premiums, bank charges and amounts
paid -for professional services, post office services, transport (within paid-for professional services, post office services, transport (within
the United Kingdom), advertising etc. Amounts payable on royalties the the right to use patents, trademarks, copyrights etc, ma ufacturing 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 (or reduced by the fall) during the
year in the value of work in progress and goods on hand for year
sale.
Net output
Net output,
Net output, a customary census measure, is calculated by deducting from gross output the cost of purchases (reduced by the rise, on
increased by the fall, during the year of stocks of materials etc) and the cost of industrial services received, and where applicable. duties etc.
Net output per head
The figures
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, ad ministrative, technical and clerical employees and
working proorrietors, but excluding outworkers.

Gross value added at factor cos
Gross value added at factor cost is calculated by deducting from net output the cost of non-industrial services eg rent of buildings,
hire of plant, machinery and vehicles (excluding vehicles hired with drivers), commercial insurance premiums, bank charges and amounts paid for professio nal services, post office services, transport (within the United Kingdom) and advertisisg, rates (excluding
water rates) and the cost of licensing motor vehicles. 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. accounts statistics.
Gross value added at factor cost per head
The figures of gross value added at facto
The figures of gross value added at factor cost per head are derived
by dividing the gross value added by the averaed by divididin the gross value added by the average nember of
persons employed (full and part-time) on all activities covered by the returns, including operatives, administrative, technical and clerical employees and working proprietors, but excluding out-
workers. workers.
Purchases
Purchases include the cost of raw materials, components, semiPurchases include the cost of raw materials, components, semi-
manufactured goods and workshop materials of replacement parts manufactured goods and workshop materials; of replacement
and consumable tools not charged to capital account; of packaging materials of all types; of stationery and printed matter; of fuel, electricity and water; of materials to be used by the establishment or given out to other establishments for the production of machinery
or other capital items for the establishment's own use; of materials for use by the establishment when working on goods supplied by
customers; and of food, etc for any canteen covered by the
and establishment's return. Transfers of goods to the establishmen from another department of the same firm not covered by the establishments relling value recorded by the other department. Amounts estimated selling value recorded by the other department. Amounts
payable to transport firms or crecited to the firm's own transport
department for delivery of materials are excluded, as are all department for delivery of materials are excluded, as are all
purchases of machinery and plant charged to capital account.
Purchases of goods for merchanting or factoring have been purchases of machiner for merchanting or factoring have been
Purchases of goods for
collected separately since 1973. The values shown exclude VAT collected separately since 1973. The values shown exclude VAT.
They include, in addition to the actual purchase price, the value They include, in addition to the actual purchase price, the value
of packaging material charged to the estab lishment. The value of returned goods or packaging material returned to suppliers and any
trade discounts are excluded. Materials purchased duty-paid are rrade discounts are ex-caid value, less any drawback, rebate, etc. included at their duty-paid value, less any drawback, rebate, etc.
The cost of transport is included only if it is included with the purchase price in the firm's accounts. Imported goods are included
at their full delivered cost. If in the firm's accounts the transport at their full delivered cost. If in the firm's accounts the transport
tromdocks or airport is not included in the cost of goods purchased, from docks or airport is not included iuty (if applicable). Leasing,
the cost is entered at cif pus duty
renting and hire purchase charges are excluded.

Sales for the purposes of the annual censuses means deliveries on sales of gooos made by establishments in the United Kingdom
coved by the inauiry. Sales of goods made for these establishments coverea by the inaury. Ster establishments from materials given out to them and sales of waste products are included. New building
work and machinery or other capital items produced by establishwork and machinery or ot ther capital items produced by establish-
ments for hiring out or leasing are regarded as sales, the value included in the return being that adopted in the establishments $s^{\prime}$ capitalasset accounts Forward sales and canteen takings are excluded.
All sales in the period of the inauiry are included irrespective of
In when the goods were manufactured. Goods produced in one
establishment and transferred either 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, another establishment of the same firm not covered by the return,
are treated as sales by the producing establishment and valued as
fer as possible as if they had heen sold to an independent purchaser. are treated as sales by the producing establishment and valued as
far as possible as if they had been sold to an independent purchaser. Gods sransterred to wholesale or retail selling organisations, for
which seporate accounts are kept are valued on the same basis. which separate accounts are kept are valued on the same basis.
The value shown for sales is the "net selling value" defined as The value shown for sales is the "net selling value" defined as the
amount (excluding VAT) charged to customers whether on an ex-works or delivered basis, after any trade discounts and agents ${ }^{\prime}$
commissions have been deducted. The cost of packing materials commissions have been deducted. The cost of packing materials
less allowance for returnable cases is included. In industries where less allowance for returnable cases is included. in in inustries where
products attract Excise Duty the value stated is usually inclusive proacts attract Excise Duty the value stated is usualy inclusive
of duty if sold duty-paid and exclusive of duty if sold in bond
or exported or exported.
Receipts for work done and industrial services rendered
Figures
Figures for work done represent the amount charged for work
carried out on materials supplied by a customer and include repair carrired out on materials supplied by a customer and include repair
work. Within certain industries this heading covers a wide variety of
ccivities, for example, within the food sector - butter packed on Work. Within certain industries this head ing covers a wide variety of
activities for example, within the food sector - butter packed on
commission; within the textile ind ustries - making up of garments, commission; within the textile industries - making up of garments,
fur dressing and textile finishing; within printing and publishing for dressing and textile finishing; within printing and publishing-
preparatory work on type-setting, block making and binding. Work done is also significant in the electrical machinery and heavy engineering industries, covering erection, instalatation and repari and
iobbing work. Other activities within this heading include exploration jobbing work. Other activities within this heading include exploration
work, research and development, glass cutting and dressing and Mork, research
planing of timber.
nd Industrial services rendered include repairs and maintenance, insta-
llation work, and technical research and studies for other lation work, and technical research and studies for other
organisations.

Capital goods produced for establishments' own use
his includes all work of a capital nature carried This includes all work of a capital nature carried out
year by the establishments' own staff for their own use.

This inclustes rents received for commercial and industrial buildings
amounts charged for hiring out plant, machinery and vehicles and amounts charged for hiring out plant, machinery and vehicles and
other goods and amounts charged o other organisations for the provision of transport. It also includes amounts received for the
right to use patents, trademarks, copyrights etc, manufacturing right to use patents, trademarks, copyrights etc, manufacturing
and quarrying rights and technical "know-how" and revenue from and quarrying rights and techn
such staff facilities 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 goods on hand for sale and of 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 of goods held for merchanting or factoring. Work in progress is defined as materials
which have been partially processed by the establishment but which which have been pariatr processed by the estabishment but whic
are not usually sold or transferred to another establishment without further processing. The values include the cost of materials consumed and labour used. Progress payments made to sub
contractors are excluded and progress payments received from other contractors are excluded and progress payments received

Wages and salaries
Wages and salaries
These are amounts paid during the year to operatives and These are amounts paid and clerical employees. Payments to
administrative. tecchical and
working proprietors, whether called salaries or not, are excluded. The values shown include all overtime payments, bonuses and made for 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, Government sources is included. The
travelling expenses etc is included.

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

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

## Operating ratios The operating rat

The operating ratios shown were obtained by dividing the estimate of the industry total for the quantity shown in the numerator by the correspond ing est imate for the quantity shown in the denominator.
These estimates cover all establishments classified to each ind ustry. including not selected establishments and non-respondents. Within an
industry, it is possible to compare ratios for an ind ividual firm with industry, it is possible to compare ratios for an individual firm with
the ratios shown for the relevant industry. However, it is important to bear in mind that various factors may affect the results - for
example, differences in definitions, treatment of depreciation (which example, differences in definitions, treatment of depreciation (which
is not identified in the census datal and varying practice with regard to stock valuation, may affect comparability in some respects.
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[^0]:    Department of Industry
    Business Statistics Office

[^1]:    (a) Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census. Satisfactory returns accounted for 83 per cent of employment within the industry
    (b) Details of manufacturers' quarterly sales of principal products are published regularly in Business Monitor PQ212.
    (c) Introduced during 1974, discontinued during 1977.
    (d) Average number employed, including full and part-time employees (see table 7 ) and working proprietors.
    (e) For 1974 and 1975 rents of industrial and commercial buildings were not recorded separately, but included in hire of vehicles, plant and machinery

