## PA339.3

## Business Statistics Office

## Business Monitor

## 1978

15/42(HeA25)
Refrigerating machinery, space-heating, ventilating and air-conditioning equipment

Special Note for Purchasers
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Report on the
Census of Production
1978
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Refrigerating machinery, space-heating, ventilating and air-conditioning equipment

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 )

| PA100. |  |
| :--- | :--- |
| PA1001 | Introductory notes |
| PA1 |  |

The information in this report relates to establishments classified to the Refrigerating machinery, space-heating, ventilating and air-conditioning The informations indry, minimum list heading $339.3 / 4$ in the Standard Industrial Classification (revised 1968). The activities of the industry
equipment include:-

Waufacturing refrigerating machinery, commercial refrigerators and commercial refrigerating equipment, including deep freeze and quick freeze machinery. The manufacture of domestic type, refrigerators and deep freeze units (including non-electrical refrigerators) is excluded.

Manufacturing, other than at foundries, equipment for space-heating, ventilating and air-conditioning systems and dust extraction systems, including heater batteries, unit heaters, ventilators, hoods, cowls, ducting, etc.; and self-contained air-conditioning machines. Establishments electric heaters, fans, etc., self-contained oil burners and gas heaters are also excluded.

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

## LIST OF CONTENTS

Table Title

|  | Unit | 1974 | 1975 | 1976 | 1977 | 1978 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Enterprises | Number | 876 | 915 | 930 | 954 | 928 |
| Establishments | " | 944 | 994 | 1,014 | 1.045 | 1.015 |
| Sales of goods produced | £ thousand | 350,734 | 410,355 | 462,488 | 607,426 | 680,925 |
| Receipts for work done and industrial services rendered | " | (b) | (b) | 22,835 | 20,092 | 30,238 |
| Capital goods produced for establishments' own use | " | 384 | 411 | 788 | 977 | 820 |
| Non-industrial services rendered | " | 519 | 683 | 997 | 602 | 834 |
| Goods merchanted or factored | " | 18,969 | 17,905 | 16,424 | 25,694 | 32,248 |
| Total sales and work done (c) | " | 370,606 | 429,355 | 503,531 | 654,790 | 745,065 |
| Increase during the year, work in progress and goods on hand for sale | " | 12,174 | 2,790 | 11,937 | 15,746 | 8,309 |
| Gross output | " | 382,779 | 432,144 | 515,468 | 670,536 | 753,375 |
| Purchases of materials for use in production, and packaging and fuel | " | 179,050 | 189,239 | 240,279 | 327,993 | 348.878 |
| Purchases of goods for merchanting or factoring | " | 15,385 | 13,373 | 11.888 | 20.795 | 25.184 |
| Increase during the year, stocks of materials, stores and fuel | " | 11.528 | -2,508 | 10,351 | 10.414 | 74 |
| Cost of industrial services received | " | 9,554 | 14,976 | 8,330 | 14.078 | 16.810 |
| Net output | " | 190,318 | 212,048 | 265,323 | 318,084 | 362,577 |
| Total employment (d) | Thousands | 47.3 | 46.5 | 46.4 | 47.5 | 47.7 |
| Net outout per head | £ | 4,023 | 4,563 | 5,714 | 6,703 | 7,597 |
| Payments for non-industrial services |  |  |  |  |  |  |
| Hire of vehicles, plant and machinery | £ thousand | 2.552 | 2,998 | 935 | 2,409 | 3,031 |
| Rents of industrial and commercial buildings | " | (e) | (e) | 1.976 | 3,741 | 4.469 |
| Commercial insurance premiums | " | 1.851 | 2,544 | 2.864 | 3.608 | 4.118 |
| Bank charges | " | 250 | 298 | 328 | 411 | 693 |
| Other non-industrial services | " | 13,293 | 19,238 | 22,978 | 29,926 | 36,901 |
| Licensing of motor vehicles | " | 193 | 288 | 289 | 317 | 387 |
| Rates, excluding water rates | " | 3,110 | 3,993 | 4,348 | 5,150 | 5.795 |
| Gross value added at factor cost | " | 169,068 | 182,689 | 231,605 | 272,522 | 307,183 |
| Gross value added at factor cost per head | £ | 3,574 | 3,931 | 4,988 | 5,743 | 6,436 |

[^0]Capitit expenditure, 1974-1978
All United Kingdom establishments classified to the industry (a) (b)

|  | 1974 | 1975 | 1976 | 1977 | 1978 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Land and buildings |  |  |  |  |  |
| New building work | 2,853 | 962 | 2,363 | 7,457 | 3,256 |
| Land and existing buildings |  |  |  |  |  |
| Acquisitions | 867 | 309 | 1,487 | 1,536 | 1.184 |
| Disposals | 414 | 301 | 101 | 1,074 | 554 |
| Venicles |  |  |  |  |  |
| Acquisitions | 2,199 | 2,628 | 3,637 | 4,982 | 5,724 |
| Disposals | 834 | 744 | 882 | 1,323 | 1,747 |
| Plant and machinery |  |  |  |  |  |
| Acquisitions | 7.483 | 7,483 | 10.048 | 17,637 | 17,064 |
| Disposals | 245 | 326 | 335 | 525 | 780 |
| Total net capital expenditure | 11,909 | 10,012 | 16,216 | 28,691 | 24,147 |

a) Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census.
(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, 1974-1978
All United Kingdom establishments classified to the industry (a)


[^1]
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 $£ 30,715$ thousand.
(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) 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.
(9) Sales of goods produced, capital goods manufactured and 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 employing 1-199.
table 5
Regional distribution of employment, net capital expenditure, net output and gross value added at factor cost, 1978

| Area | Total employment (b) |  | Net capital expenditure |  | Net <br> output (d) | Gross value added at factor cost (d) | Gross value added at factor cost returned by establishments with 80 per cent or more of their employment in the region as a proportion of total gross value added at region |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Thousands | per cent of United Kingdom | £ thousand | per cent of United Kingdom | £ thousand | £ thousand | percentage |
| Standard regions of England |  |  |  |  |  |  |  |
| North | 2.6 | 5.6 | 1,737 | 7.2 | 22,013 | 18,901 | 80.6 |
| Yorkshire and Humberside | 4.7 | 9.9 | 3,441 | 14.2 | 33,879 | 28,634 | 62.3 |
| East Midlands | 2.3 | 4.9 | 1.153 | 4.8 | 19,784 | 16,924 | 76.9 |
| East Anglia | 1.2 | 2.6 | 579 | 2.4 | 9,037 | 7,370 | 58.0 |
| South East | 17.6 | 36.8 | 7,606 | 31.5 | 130,330 | 108,064 | 62.5 |
| South West | 2.0 | 4.1 | 1,286 | 5.3 | 13,981 | 11,884 | 25.4 |
| West Midlands | 4.9 | 10.3 | 2,104 | 8.7 | 40,222 | 34,512 | 73.6 |
| North West | 5.5 | 11.6 | 2,417 | 10.0 | 41,900 | 36.064 | 63.1 |
| England | 40.9 | 85.8 | 20,323 | 84.2 | 311,147 | 262,353 |  |
| Wales | 1.7 | 3.6 | 1.280 | 5.3 | 16,013 | 14,318 | 63.0 |
| Scotland | 4.1 | 8.6 | 1,844 | 7.6 | 28,590 | 24,533 | 45.8 |
| Great Britain | 46.8 | 98.0 | 23,448 | 97.1 | 355,750 | 301,204 |  |
| Northern Ireland | 1.0 | 2.0 | 699 | 2.9 | 6,826 | 5,979 | 76.6 |
| United Kingdom | 47.7 | 100.0 | 24,147 | 100.0 | 362,577 | 307,183 |  |

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

TABLE 6
Percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments, 1978

## Accounting year ended

1978 April
Percentage of total returns received

May
1.3
0.7
$\qquad$
June $\qquad$
July -
August
2.6
September $\quad 3.3$

| October | 6.0 |
| :--- | :--- |

November
3.3

December 53.6
1979
February 1.3 0.3

February
2.0
238
28.2
(a) From 6th April.
(b) Including returns made for twelve-month period ended 1st to 5 th April 1979.
table 7
Percentage analysis of employees, by full and part-time employment and sex, 1977(a)
Other mach inery industries, minimum list heading 339.
Sex
Male
Female

| Full-time |
| :--- |
| per cent |
| 82 |


| Part-time |
| :--- |
| per cent |
| 1 |


| All employees |
| :--- |
| per cent |
| 83 |
| 17 |
| Source: Department of Employment |

Source: Department of Employment
The percentages relate to the numbers employed (excluding working proprietors) in the United Kingdom in minimum list heading
339 at mid-June, 1977. In the 1977 Census of Production the employment of the Refrigerating machinery, space-heating, ventilating 339 at mid-June, 1977. In the 1977 Census of Production the employment of the Reafrigerating machinery, space-heating, ventilating and air-conditioning equipment industry represented 22 per cent of minimum list heading 339 as a whole.

РА 339.3
Operating ratios, 1977-1978
All United Kingdom establishments classified to the industry (a)

|  | Unit | 1977 | 1978 |
| :--- | :---: | :---: | :--- | :--- |
| Gross output per head | $£$ | 14.130 | 15.784 |

Net output per head
£
6.703
7.597

Gross value added per head
5,743

Gross value added as a percentage of gross outpu

Ratio of gross output to stocks

Wages and salaries as a percentage of gross value added

Ratio of operatives to administrative, technical and clerical

Wages and salaries per administrative, technical and clerical

Wages and salaries per operative
et capital expenditure as a percentage of gross value added
sese notes give the main information needed for interpreting
信 fese figures in the industry Business Monitors: more detailed riomation about the census is given in a separate Business
PA 1001 (Introductory Notes) of the Report on the Monitor of Production, 1978.

## Eneral information

Cranges made for 1978
lirages
The cenus for 1978 is in line with similar inquiries being
the
communities.
ton census differed from earlier censuses in three respects. Commen census differed from earlier censuses in three respects.
The
tenpling was introduced for establishments emploving 20 to 49 ampling was intr smaller units was selected. A new question on he leasing of capital assets was included for 1978 only. This will
suopression of information relating to individual undertakings simperssion of information relating to individual undertakings
Qection $9(5)$ (b) of the Statistics of Trade Act 1947 states tection following provisions shall have effect with respect to any
to feort, summary or other communication to the public of
nformation 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 published therein from being identified as being
particulars relating to any individual person or undertaking particulars relating
except with the previous consent in writing of that person or the exeept carrying on that undertaking, as the case may be; but
person cor this provision shall not prevent the disclosure of the total
quantity or value of any articles produced, sold or delivered; so, quantity or value of any articles produced, sold or the competent
however, that before disclosing any such total the 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 thereot would enable particulars relating to him or to an undertaking
caried on by him to be deduced from the total disclosed". a figure involved disclosure the contributor concerned was metimes asked to give permission for its publication. In the majorty of cases permission was given. When it was refused and
mhere contributors were not approached the figure has been mporesed, either by combining it with other figures, or as in the
gional tables, by omitting the figure altogether.
bols used
following symbols are used throughout the PA series of ness Monitors:
rot available
nil or less than half the final digit shown
inior less than half the final digit shown
ioures cannot be shown owing to the risk of disclosing
nifrmation about individual enterorises.
revised
ounding of figures
ures in the tables have, where necessary, been rounded to the
Test final digit. Where figures have been so rounded, the sum al shown.
dustrial classification
ne United Kingdom Standard Industrial Classification (SIC) wa issued in 1948 and was subsequently revised in 1958 and cicial statiststics of the United Kingdom. The general principles llowed are those of the International Standard Industrial
assification of all Economic Activities of the United Nations Ssification of all Economic Activities of the United Nations
sistical Office but the United Kingdom SIC reflects the dsisisalion and structure of industry and trade as it extects in the ited Kingdom. The SIC is a classification by activity and is
ta commodity classification. However, an index of all commodity commodity classification. However, an index of all commodity dings for which sales data are provided in the Quarterly Busines Monitor PQ 1000
atistical units
Statistical unit for the purpose of the Census is the establishment
ich is defined in the SIC as the smallest unit which can provide
example, employment, expenses, turnover, capital formation. Usually the principal activities carried on in an establishment fall within a
single heading of the classification (eg steel making or sugar refining). Typically the establishment embraces all the activities
carried on at a single add ress eq a mine or a factory including those carried on at a single address eg a mine or a factory, including those
which are ancillary to the principal activities. Frequently distinct activities characteristic of different industries are carried on at one address, but normally these are not classified separately and the
whole establishment is classified according to the main activity. If, 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
carried on at a number of addresses. Where this is so, businesses are asked to provide the full range of address, whether or not the activities are different. Their activities may, however, be integrated to such an extent that they constitute a single establishment. In the latter case the establishment is defined to cover the combined activities at these addresses (termed local units). Separate figures are obta ined of employment and net capital
expend are made by the Business Statistics Office (BSO) to ensure, by are made by the Business Statistics Office (BSO) to ensure, by
negotiating with respondents, that the return from an establishment negotiating with respondents, that the return rrom an establishment
does not cover local units in more than one of the countries of the United Kingdom.
Establishments are asked to exclude from their returns particulars relating to any department not engaged in production eg merchanting, transpor, warehousing, for which they keep a separate set of
accounts. Transfers treated as sales and of goods produced to such departments are possible as if sold to an independent purchaser. Where separate possible as if sold to an independent purchaser. Where separate
accounts are not kept they are asked to include details of all these accounts are not kept $t$.
activities in their return.
Particulars relating to head offices mainly engaged in the admin-
istration of the oroduction nuits within the scope of the census istration 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 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 define as a business consisting of either a single establishment or two or more establishments under common ownership or control. Bringing together estabiishments into enterprise groups is also necessary fo activities of any one enterprise group. Information about the relationship of establishments, the changing structure of groups 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 reports, press

## THE REGISTER

The register permits a questionnaire to be sent direct to the eporting establishment on which the latter can include information elating to all the manufacturing (or locall. units which it comprises. the register continuously up-to-date and act as a check on its detail and structure. For the establishments on the register making returns to the quarterly inquiries, the industrial classification is derived from an analysis of their sales of commodities and is reviewed annually, 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 Employment
from the annual censuses of employment. New additions to the from the annual censuses of and obs obtained from various sources including the Department of Employment and HM Customs and Excise. The 1973 Finance Act allows the latter to pass lists of businesses registered for VAT to the SSO. Where necossary detalis are soug directly from new register.
Coverage
ses returns have been required from all establishments employing 20 or more. For the 1978 Census in 68 selected manufacturing industries coverage of estab lishments in the 20 to 49
employment size band has been reduced to a 1 in 2 sample. This employment size band has been reduced to a 1 in 2 sample. Th 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 EEC requirement to

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

TERMS USED IN THE CENSUS REPORT Average number employed
Establishments were required to state the average number of persons
on the payroll during the year of return. Separate figures were on the payroll during the year of return. Separate figu
required for:
(ad ininistrative, technical and clerical employees (b) all other employees loperatives)

Averages could be calculated from the figures relating to the last
week of each calendar month. Establishments were also required to state the number of working proprietors where appropriat
and these are included in total employment figures Full and these are included in total employment figures. Full-time and
part-time employees are included but outworkers (ie person part-time employees are included but outworkers lie persons
employed by establ ishments who worked in their own homes etc on materials supplied by the establishment) are excluded. The figures include persons engaged on merchanting or factoring and canteen
workers where particulars in respect of these activities could not be workers where particulars
excluded from the return.
Working proprietor
These include all persons regarded as "self-employed" for national insurance purposes and members of their families who worked in
the business without receiving a wage or salary; but such person who worked less than half the normal number of working hours are excluded. Directors working in the business but not in receip
of a definite wage salary of a definite wage, salary or commission are incluc
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 desion works foremen; research and design emplovees (other than
operatives); draughtsmen, editorial staff, advertising staff, travellers and all office employees.
Operatives include all other classes of employes, that is, 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, shoos and canteens, inspectors, maintenance workers and stores, shops and canteens, inspectors, maintenance workers and
cleaners. Operatives engaged in outside work of erecting, fitting cleaners. Operatives engaged in outside work of
etc are also included, but outworkers 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 ints where production had not started before the end of the year
is included. Establishments were asked not to deduct from value of capital expenditure amounts received or expected to be received in grants or allowances from the Government or any
statutory body or local authority. Establishments with 100 or statutory body local authorty. Establishments with 100 or more emplovees were asked to include a total net capital
expenditure figure for each calendar year and to state whether any expenditure figure for each calendar year and to state whether any
of the investment shown in cost of new building work, vehicles
or plant and machinery included or plant and machinery included goods for letting out on hire or
leasing.

## a) New building work

This represents the cost incurred during the year of new building
and other constructional work to be used in connection with the and other constructional work to be used in connection with th
business covered by the return. The value is that charged capital account during the year of return; it includes expend iture on new buildings and on the extension or reconstruction of old buildings, the value of works of a capital) nature carried out by the
establishment's own staff and the cost of any newly constructed establishment's own staff and the cost of any newly constructed
buildings purchased. Figures shown include legal charges, stamp duties, agents' commissions, etc.
(b) Land and existing buildings

The items shown are the capital cost of freeholds purchased and the capital cost or premium payable for leaseholds acquired
lexcluding the value of assets accuired in taking over an existing business), and the amounts receivable for freeholds or leaseholds disposed of. The value is that charged to capital account during
the year of return.
machinery and vehicles
The items shown are the value of plant and machinery and of
vehicles accuired, both new and second-hand, and the amo received for items disposed of during the year. The value of plant
and machinery acauired includes plant, etc which firms of and machinery acouired includes plant, etc which firms producad
for their own use in connection with the business covered by return. The value of plant, etc accuired is the expenditure by the
to capital account during the year of return lecs any to capital account during the year of return less any discoungod
received, but including the cost of transport and installation recived, but including the cost of transport and installation, Deductible value added tax is excluded but non-deductible value
added tax on motor cars acquired is inclucded. No deduction is nade for depreciation, amortization or obsolescence. The proceeds of items disposed of during the year exclude amounts written-off
for items scrapped.

Cost of industrial services
This includes a mounts payable to other firms for work done on materials supplied by the establishment, payments fork repairs ond
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 venicles (excluding vehicles his. drivers), commercial insurance premiums, bank charges and amounts paid for professional services, post office services, transport (within the United Kingdom), advertising etc. Amounts payable on royaltiss
for the right to use patents, trademarks, copyrights etc, manfacturing and quarrying rights and technical "know-how" are
also included. Iso included

Gross output 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
sal year in
sale.
Net output
Net output, a customary census measure, is calculated by deducting from gross output the cost of purchases (recduced by the rise, or and the cost of industrial services received, and where applicable. uties et
Net output per head
The figures of net output per head are derived by dividing the net output by the average number of persons employed (ftull and
part-timel on all activities covered by the returns, including par--time) on all activities covered by the returns, including
operatives, administrative, technical and clerical employees and working proprietors, but excluding outworkers.
Gross value added at factor cost
Gross value added at factor cost is calculated by deducting from Gross value added at factor cost is calculated by deducting from
net output the cost of non-industrial services er ernt of bildings,
hire of plant, machinery and vehicles lexcluding vehicles hired hire of plant, machinery and vehicles (exclusing vehicices nired
with drivers). commercial insurance premiums, bank charges and amounts paid for professional services, post office services, transpor (within the United Kingdom) and advertising, rates (excluding
water rates) and the cost of licensing motor vehicles. This estimate water rates) and the cost of licensing motor venicicles. This estimate of gross value added approaches more closely than census ne
output to the definition of net output or value added in nationa 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 o persons employed (full and part-time) on all activities covered
by the returns, including operatives, administrative technical and by the returns, including operatives, administrative, technical and
clerical employees and working proprietors, but excluding out-
workers.

Purchases
Purchases include the cost of raw materials, components, semiand 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 establishmen or other capital items for the establishment's own use; of materials
for use by the establishment when working on goods supplied by

Wstomers; and of food, etc for any canteen covered by the establishment's return. Transfers of goods to the establishment
another department of the same firm not covered by the from anothent's return are included at a cost corresponding to the establishments evel a recolded by the other department. Amounts
estimated esthale to transport firms or credited to the firm's own transport
peysade
department for delivery of materials are excluded, as are all purchases of machinery and olant charged to capital account.
prchases of goods for merchanting or factoring have been Purchases of goods for merchanting or factoring have been
collected separately since 1973 . The values shown exclude VAT.
Ohey include, in addition to the actual purchose price, the valu They include, in addition to the actual purchase price, the value
of packaging material charged to the establishment. The value of of packedigng mor or packaging material etrurned toe suppliers and any
returne
trade discounts are excluded. Materials purchased duty-paid are trade discounts are excluded. Materials purchased duty-paid are
included at their duty-paid value, less any drawback, rebate, etc. included at their duty-paid value, less any drawback, rebate, etc.
The cost of transport is iscluded only if it is includded with the
orchase price in the firm's accounts. Imported goods are included The cost of trins the tirm's accounts. Imported goods are included
purchase price edived cost. If in the firm's accounts the transport at their full delivered cost. If in the firm's accounts the transport
tomdocks or airport is not included in the cost of goods purchased, tom docks or entered at cif plus duty lif apolicable). Leasing,
the cost is
tenting and hire purchase charges are excluded.

Sales of goods produced
Sales for the purposes of the annual censuses means deliveries on seles for goods made by entablishments in the United Kingdom
sse of
overed by the inquiry. Sales of goods made for these establishments covered by the inquiry. Sales of goods made for these establishments
oy outworkers or by other establishments from materials given out to them and sales of waste products are included. New building
the and machinery or other capital items produced by establish work and machinery or other capital items produced by establish-
nents for hiring out or leasing are regarded as sales, the value ments for hiring out or leasing are regarded as sales, the value,
included in the return being that adopted in the establishments capital 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 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,
re treated as sales by the producing establishment and valued as are treated as sales by the producing establishment and valued as
far as oossible as if they had been sold to an indeenend ent purchaser. Goods transferred to wholesale or retail selling organisations, 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 amount (excluding VAT) charged to customers whether on an
ex.works or delivered basis, after any trade discounts and agents commisions have been deductect. The const of packing materials
less allowance for returnable cases is included. In industries where less allowance for returnable cases is included. In industries where
products attract Excise Duty the value stated is usually inclusive of duty if sold duty-paid and exclusive of duty if sold in bond
or exported.
Receipets or work done and industrial services rendered
figures for work done represent the amount charged for work work. Within certain ind ustries this heading covers a wide variety of ctivities, for example, within the food sector - butter packed on Commission; within the textile ind ustries - making up of garments,
fur dressing and textile finishing; within printing and publishing oreparatory work on typeesetting, block making and binding. Work done is also significant in the electrical machinery and heavy nbbing work. indries, covering erection, installation and repair and work, research and development, glass cutting and dressing and
ndustrial services rendered include repairs and maintenance, insta-
lation work, and technical research and studies for other
aranisation.

Capitar goods produced for establishments own use
ear iby the establishments' own staff for their own use

Non-ind
This includes rents received for commercial and industrial buildings,
amounts charged for hiring out plant, machinery and vehicles and other goods and amounts chargen to other organisations for the
provision of transport. It also includes amounts received for the provision of transport. It also includes amounts received for the
right to use patents, trademarks copyrights right to use patents, trademarks, copyrights etc, manufacturing
and quarrving rights and technical "know-how"" and revenue from and quarrying rights and tech
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 of goods on hand for sale and of
mate 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 one estabtshment but which 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 prot.
organisations are not deducted.

## Wages and salaries

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

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

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

## Operating ratios

The operating ratios shown were obtained by dividing the estimate of the industry total for the quantity shown in the numerator by the
corresponding estimate for the quantity shown in the denominator, These estimates cover all establishments classified to each industry. including not selected establishments and non-respondents. Within an
industry, it is possible to compare ratios for an individual firm with industry, it is possibe to compare ratios for an ind ividual firm with
the ratios shown for the relevant industry. However, it is important 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 depreceiation (which
is not identified in the census data) and varving practice with regard is not identified in the census data) and varying practice with re
to stock valuation, may affect comparability in some respects.

[^2]
[^0]:    Satisfactory returns accoounted for 67 per cent of employment within, the industry.
    b) Included in sales of goods produced.
    (c) Details of manufacturers' quarterly sales of principal products are published regularly in Business Monitor PQ339.3.
    (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.

[^1]:    Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census.

[^2]:    (c) Crown copyright 1980

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