## PA102

Business Statistics Office

## Business Monitor

## Report on the <br> Census of Production

## Stone and slate quarrying and mining

## PA102

## Business Monitor

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Report on the Census of Production 1979

## Stone and slate quarrying and mining

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)

| PA |  |
| :--- | :--- |
| PA1001 | Introductory notes |
| PA |  |

The information in this report relates to estabishments classified to the Stone and slate quarrying and $m$ ining industry, minimum list head 102 in the Standard Industrial Classification (revised 1968). The activities of the industry include

Extracting granite, limestone, marble, sandstone, etc. from mines, pits or quarries and slate quarrying and mining, and such anciilary activities as cleaning, washing, gracing, etc. normally carried out at pits and quarries. Processing activities, for example, the production of roofing slates, coating of roadstone, etc., are also included when carried on at the site of the mine or quarn

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

Output and costs, 1975-1979
All United Kingdom estalis

|  | Unit | 1975 | 1976 | 1977 | 1978 | 1979 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Enterprises | Number | 454 | 444 | 445 | 438 | 430 |
| Establishments | " | 761 | 726 | 727 | 722 | 704 |
| Sales of goods produced (b) | £ thousand | 271.625 (c) | 307,300 | 337,967 | 395,447 | 444,029 |
| Receipts for work dene and industrial services rendered | " | (c) | 1.223 | 2.851 | 4,188 | 6.524 |
| Capital goods produced for establishments' own use | " | 117 | 168 | 147. | 261 | 356 |
| Non-industrial services rendered | " | 582 | 296 | 420 | 669 | 849 |
| Goods merchanted or factored | " | 8,300 | 7,226 | 6.114 | 7.186 | 13.785 |
| Total sales and work done (c) | " | 280,624 | 316,213 | 347,498 | 407,753 | 465.542 |
| Value of outward transport on goods sold |  |  |  |  |  |  |
| by establishments' own staff | " | 21,079 | 19,347 | 22.278 | 24,565 | 29,902 |
| by other organisations | " | 54,905 | 64,330 | 70,465 | 91,965 | 116,145 |
| Increase during the year, goods on hand for sale | . | 1.509 | 1,408 | 898 | 2.038 | 1,544 |
| Gross output | " | 358,116 | 401,298 | 441,139 | 526,320 | 613,134 |
| Purchases of materials for use in production, and packaging and fue | " | 117.170 | 139,183 | 155.789 | 170.024 | 201,348 |
| Purchases of goods for merchanting or factoring | " | 7.612 | 6.698 | 5.297 | 6.407 | 12,305 |
| Increase during the year, stock s of materials, stores and fuel | " | 2.123 | 1.751 | 1.173 | 1.411 | 2.850 |
| Cost of industrial services received | " | 10,787 | 13.015 | 15,407 | 14,797 | 17.534 |
| Net output | . | 224,670 | 244,154 | 265,820 | 336.504 | 384,797 |
| Total employment (e) | Thousands | 19.3 | 17.4 | 16.6 | 16.2 | 15.6 |
| Net output per head | £ | 11,635 | 14.067 | 16,001 | 20,814 | 24,722 |
| Payments for non-industrial services |  |  |  |  |  |  |
| Hire of veh icles, plant and machinery | £ thousand | 3,338(f) | 4.507 | 7,651 | 8.967 | 10,296 |
| Rents of industrial and commercial buildings | . | (f) | 82 | 60 | 87 | 76 |
| Commercial insurance premiums | " | 1.657 | 1.762 | 2.065 | 2.880 | 3.542 |
| Bank charges | " | 72 | 83 | 106 | 99 | 104 |
| Other non-industrial services | " | 60.485 | 68,914 | 80,266 | 97.627 | 131.337 |
| Licensing of motor vehicles | " | 811 | 530 | 721 | 966 | 994 |
| Rates, excluding water rates | " | 2.141 | 2.168 | 2.727 | 2.868 | 3,304 |
| Gross value added at factor cost | " | 156.166 | 166,107 | 172,225 | 223.008 | 235,147 |
| Gross value added at factor cost per head | £ | 8.088 | 9.571 | 10,367 | 13,794 | 15,107 |

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census. cory returns accounted for 67 per cent of empoyment winn
(b) Sales of products are valued at ex-quarry or ex-works prices, the cost of transport being shown separately.
(c) Receipts for work done and industrial services rendered included in sales of goods produced
(d) Details of manufacturers' quarterly sales or principal products are published regularly in Business Monitor PQ102.
(e) Average number employed during the year, including full and part-time employees (see table 7 ) and work ing proprietors.
(f) Rents of industrial and commercial build ings (not recorded separately) included in hire of venicles, plant and machinery

TABLE 2
All United Kingdom establishments classified to the industry (a) (b)

(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
Stock 1975-1979
All United Kingdom establishments classified to the industry (a)

|  | 1975 | 1976 | 1977 | 1978 |  | 979 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Increas |  |  | Value at end of year |
| Materials, stores and fuel | 2,123 | 1,751 | 1,173 | 1,411 | 2,850 | 15,907 |
| Goods on hand for sale | 1,509 | 1,408 | 898 | 2,038 | 1,544 | 11,992 |
| Total | 3,632 | 3,160 | 2,071 | 3,449 | 4,394 | 27,900 |

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

Analysis of establishments by size, 1979
All United Kingd 40

| $\begin{aligned} & \hline \text { Size } \\ & \text { group } \\ & \text { (b) } \end{aligned}$ | $\begin{aligned} & \text { Estab- } \\ & \text { lish- } \\ & \text { lents } \end{aligned}$ | $\begin{aligned} & \text { Enter- } \\ & \text { prises } \\ & \text { (c) } \end{aligned}$ | Employment |  |  | Wages and salaries (f) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Total <br> (d) | $\begin{aligned} & \text { Opera- } \\ & \text { tives } \end{aligned}$ | $\begin{aligned} & \text { Others } \\ & \text { (e) } \end{aligned}$ | Operatives |  | Others (e) |  |
|  |  |  |  |  |  | Total | $\begin{aligned} & \text { per } \\ & \text { head } \end{aligned}$ | Total | $\begin{aligned} & \text { per } \\ & \text { head } \end{aligned}$ |
|  | Number | Number | Number | Number | Number | £ thousand | £ | £ thousand | £ |
| 1-10 | 394 | 302 | 1,993) |  |  |  |  |  |  |
| 11-19 | 127 | 79 | 1,888) |  |  | 37.732 | 4.617 | 9,509 | 4.891 |
| 20-49 | 118 | 68 | 3,782) |  |  |  |  |  |  |
| 50-99 | 39 | 28 | $2.722)$ |  |  |  |  |  |  |
| 100-199 | 15 | 14 | 1,858 | 1,462 | 396 | 6.795 | 4.648 | 1,776 | 4,486 |
| 200-299 | 6 | 5 | 1,421 | 1,134 | 287 | 5,532 | 4.878 | 1,256 | 4,376 |
| 300 and over | 5 | 5 | 1,901 | 1,365 | 536 | 7,552 | 5,533 | 2,854 | 5,325 |


| Total | 704 | 430 | 15,565 | 12,133 | 3,163 | 57,611 | 4,748 | 15,395 | 4,867 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census.
(b) Average number employed during the year, including full and part-time employees (see table 7 ) and working proprietors.
(c) The count of enterprises shown in each row represents the number of enterprises, irrespective of size, owning the establishments shown in the previous colum, i.e. the number of enterprises owning the establishments within the size group indicated by the row heading.
It should be noted that because an enterprise may own establishments in more than one size group, the sum of the individual enterprise It should be noted that because an enterprise
counts may exceed the total for the industry.
(d) Including working proprietors.
(e) Administrative, technical and clerical employees.

| Total sales and work done (g) | Gross output | Net output |  | Gross value added at factor cost |  | Net capital expenditure (h) | Total stocks at end of year |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | $\begin{aligned} & \text { per } \\ & \text { head } \end{aligned}$ | Total | $\begin{aligned} & \text { per } \\ & \text { head } \end{aligned}$ |  |  |
| $\overline{\text { £ thousand }}$ | £ thousand | £ thousand | £ | f thousand | £ | £ thousand | £ thousand |
| 302,072 | 393,103 | 242,589 | 23,360 | (j) | (j) | 31,733 | 19,580 |
| 47,638 | 64,436 | 40,086 | 21,575 | 178,354(j) | 14.568(j) | 4,604 | 2.719 |
| 45,569 | 56,119 | 34,507 | 24,284 | 22,704 | 15,977 | 3,224 | 2,359 |
| 70,263 | 99,476 | 67,615 | 35,568 | 34,089 | 17,932 | 10,224 | 3,242 |


| 465,542 | 613,134 | 384,797 | 24,722 | 235,147 | 15,107 | 49,785 | 27,900 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

(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 $£ 10,602$ thousand.
(g) Sales of goods produced, capital goods manufactured and buildings constructed by establishments for their own use, work done,
d and merchanted goods.
(h) New building work plus acquisitions less disposals of land and existing buildings, vehicles and plant and machinery.
(i) Gross value added data relate to establishments emploving 1-199.

Regional distribution of employment, net capital expenditure, net output and gross value added at factor cost, 1979
All United Kingdom establ ishments classified to the industry (a)

| Area | Total employment (b) |  | Net capital expenditure (c) |  | $\begin{aligned} & \text { Net } \\ & \text { output (d) } \end{aligned}$ | Gross value added at factor cost <br> (d) | Gross value added at 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 <br> United <br> Kingdom | £ thousand | £ thousand | percentage |
| Standard regions of England |  |  |  |  |  |  |  |
| North | 1.5 | 9.8 | 5,049 | 10.1 | 36,171 | 21.124 | 52.0 |
| Yorkshire and Humberside | 1.3 | 8.4 | 4.677 | 9.4 | 35,275 | 20,733 | 46.3 |
| East Midlands | 2.1 | 13.6 | 8.609 | 17.3 | 63,385 | 38,160 | 64.4 |
| East Anglia | 0.1 | 0.8 | 326 | 0.6 | 3,431 | 2.592 | 46.5 |
| South East | 0.3 | 2.1 | 709 | 1.4 | 9.596 | 6.234 | 37.6 |
| South West | 2.4 | 15.4 | 9,475 | 19.0 | 66,342 | 37,215 | 69.1 |
| West Midlands | 1.0 | 6.2 | 2,257 | 4.5 | 27,770 | 18,915 | 75.9 |
| North West | 0.8 | 5.0 | 2,086 | 4.2 | 19,780 | 11,697 | 41.4 |
| England | 9.5 | 61.3 | 33,187 | 66.7 | 261,751 | 156,670 |  |
| Wales | 2.8 | 18.2 | 7.101 | 14.3 | 56.145 | 33,615 | 57.2 |
| Scotland | 1.8 | 11.7 | 5,685 | 11.4 | 40,744 | 27,304 | 50.4 |
| Great Britain | 14.2 | 91.2 | 45,973 | 92.3 | 358,639 | 217,589 |  |
| Northern Ireland | 1.4 | 8.8 | 3.812 | 7.7 | 26,158 | 17,558 | 32.6 |
| United Kingdom | 15.6 | 100.0 | 49,785 | 100.0 | 384,797 | 235,147 | - |

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census.
(b) Average number employed during the year, 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 Where a census return covered addresses in two or more regions, an estimate of the net output attributabe to each adaress was made
by assuming that net outtut was pooportionate to emplovment. An estimate for each region was obtained by aggregating estimates of
net output tor addresses located in that region. Gross value added at factor cost is treated similarly.

Percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments, 1979

| Accounting year ended |  |  | Percentage of total returns received |  | Percentage of total number employed |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | per cent |  | per cent |
| 1979 | April (a) |  | 0.7 |  | 0.8 |
|  | May |  | 0.7 |  | 0.3 |
|  | June |  | 8.7 |  | 7.1 |
|  | July |  | - |  | - |
|  | August |  | - |  | - |
|  | September |  | 12.8 |  | 8.4 |
|  | October |  | 3.4 |  | 5.2 |
|  | November |  | 1.3 |  | 0.8 |
|  | December |  | 43.0 |  | 47.8 |
| 1980 | January |  | 1.3 |  | 1.5 |
|  | February |  | 0.7 |  | 0.7 |
|  | March (b) |  | 27.5 |  | 27.6 |
| (a) From 6th April. |  |  |  |  |  |
| (b) Including returns made for twelve-month period ended 1st to 5th April 1980. |  |  |  |  |  |
| table 7 |  |  |  |  |  |
| Percentage analysis of employees, by full and part-time employment and sex, 1977(a) |  |  |  |  |  |
| Sex |  | Full-time |  | Part-time | All employees |
|  |  | per cent |  | per cent | per cent |
| Male |  | 91 |  | 1 | 92 |
| Female |  | 6 |  | 2 | 8 |

TAbLE 7
Percentage analysis of employees, by full and part-time employment and sex, 1977(a)

| Accounting year ended |  |  | Percentage of total returns received |  | Percentage of total number employed |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | per cent |  | per cent |
| 1979 | April (a) |  | 0.7 |  | 0.8 |
|  | May |  | 0.7 |  | 0.3 |
|  | June |  | 8.7 |  | 7.1 |
|  | July |  | - |  | - |
|  | August |  | - |  | - |
|  | September |  | 12.8 |  | 8.4 |
|  | October |  | 3.4 |  | 5.2 |
|  | November |  | 1.3 |  | 0.8 |
|  | December |  | 43.0 |  | 47.8 |
| 1980 | January |  | 1.3 |  | 1.5 |
|  | February |  | 0.7 |  | 0.7 |
|  | March (b) |  | 27.5 |  | 27.6 |
| (a) From 6th April. |  |  |  |  |  |
| (b) Including returns made for twelve-month period ended 1st to 5th April 1980. |  |  |  |  |  |
| table 7 |  |  |  |  |  |
| Percentage analysis of employees, by full and part-time employment and sex, 1977(a) |  |  |  |  |  |
| Sex |  | Full-time |  | Part-time | All employees |
|  |  | per cent |  | per cent | per cent |
| Male |  | 91 |  | 1 | 92 |
| Female |  | 6 |  | 2 | 8 |

[^0](a) The percentages relate to the numbers employed (excluding working proprietors) in the United Kingdom at mid-June, 1977, the latest
date for which information is available.

Operating ratios, 1978-1979
All United Kio
All United Kingdom establishments classified to the industry (a)

Gross output per head

Net output per head

| Unit | 1978 | 1979 |
| :--- | :--- | :--- |
| $£$ | 32,555 | 39,392 |
| $£$ | 20,814 | 24,722 |
| $£$ | 13,794 | 15,107 |
| $\%$ | 42 | 38 |
|  | 20.7 | 22.0 |
| $\%$ | 29 | 31 |

Whas a percentage of gross vise added
Ratio of operatives to administrative, technical and clerica
employees
Wages and salaries per administrative, technical and clerical
employeve

Wages and salaries per operative

Net capital expenditure per head

Net capital expenditure as a percentage of gross value added
(a) Including estimates for establishments not makiny satisfactory returns, non-response and establishments not selected for the Census.
(b) Stocks include materials, stores and fuel and goods on hand for sale at the end of the business yea

Notes
These notes give the main information needed for interpreting the figures in the industry Business
Monitors: more detaliled information about the census is given in a separate Business Monitor -
PA 1001 (Introductory Notes) of the Report on the Census of Production 1979.
general information
$\begin{array}{lll}\text { Changes made for } & 1979 \\ \text { The Census for } & 1979\end{array}$
inquiries being conducted in line with similar of the European Community. The census differed from the 1978 census in three respects. A question
on the leasing of capital assets was removed from on torm and a question on road transport costs was
the form
added. The sample of units in the 10 to 19 added. The sample of units in the 10 to 19
employment size band included for the 1978 census was not repeated.
Suppression of information relating to individual undertakings
Section $9(5)$ (b) of the Statistics of Trade Act 1947
states - "The following provisions shall have states - "The following provisions shall have
effect with respect to any report, summary or other effect with respect to any report, summary or other
communication to the public of information obtained
under the foregoing provisions of this Act in compiling any such report, summary or commun-
ication the competent authority shall so arrange ication the competent authority shall so arrange
it as to prevent any particulars published lars 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,
sold or delivered; so, however, that before solsclosing any such totai the competent authority shall have regard to any representations made to
them by any person who alleges that the disthem by any person who alleges that the disclosure thereot would enable particulars relating
to him or to an undertaking carried on by him to
be If a deduced from the total disclosed". involved disclosure the contributor concerned was sometimes asked to the contributor permission
for its publication. In the majority of cases permission was given. When it was refused and where contributors were not approached the figure
has been suppressed, either by combining it with other figures, or as in the regional tables, by omitting the figure altogether.
Symbols used
The fol lowing symbols are used throughout the PA series of Business Monitors:
not available
nil or less than half the final digit shown
figures cannot be shown owing to the risk of
disclosing information about individual disclespring
entes
revised

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

Industrial classification
The United Kingdom
The
Classification (SIC)
Was was subsequently revised in 1958 , 1968 and 1980. It exists to promote uniformity and comparability
in the official statistics of the United Kingdom. Prior to the 1980 revision the general principles
followed were those of the International Stand Industrial Classification of all Econom
Activities of the United Nations Statistical Offic but the United Kingdom SIC has reflected it existed in the United Kingdom. revision an attempt was made to align the Unit Kingdom classitication as closely as practica
with NACE, the classitication in use by Statistical office of the European Community.
SIC is a classification by activity and is not comodity classification. An index based on
1988 Sic for all commodity headings for which data are provided in the Quarterly Business Monitors is published in Business Monitor PO 1000 Statistical units
The statistical unit for the purpose of the Cens
is the establishment which is defined in the sid is the establishment which is defined in the S
as the smal lest unit which can provide the infor
mation normally required for an economic censu mation normally required for an economic census
for example, employment, expenses, turnover
capital formation. Usually the principal activit capital formation. Usually the principal activ
ties carried on in an establishment fall within
single heading ties carried on in an establishmet cassification (eg ste
single heading of the clater
making or sugar refining) making or sugar refining). Typically the activities carri
establishment embraces all the alt on at a single address eg a mine or a factor
including those which are ancillary to principal activities.
activities characteristic of $\begin{gathered}\text { Frequently difting } \\ \text { different }\end{gathered}$ industri are carried on at one address, but normally are carried on at one address, but normally
are no classified separately and the
establishment is class establishment is classified according to the
activity. If, however, the required range can be provided for each activity, each is tak
to constitute a separate establishment. Someti activities which are conducted as a sing business are carried on ats ask or adress the full range of information in respect of ea address, whether or not the activities
different. Their activities may, however, integrated to such an extent that they constitute integrated to such an exter In the latter case
single establ ishment.
establishment is defined to cover the combin establishment is defined to cover the combin
activities at these addresses (termed local units Separate figures are obtained of employment and capital expenditure at each unit in order compile regional tables.
Efforts are
(BSO) to ensure, by the Business Statistics Office (BSO) to ensure, by negotiating with respondents
that the return from an establishment does no cover local units in more than one of the countr of the United Kingdom.
Establ ishments are as Establishments are asked to exclude from theit
returns particulars relating to any department no
engaged in engaged in production eg merchant ing, transport
warehousing, for which they keep a separate set accounts. Transfers of goods produced to sult accounts. Transfers of goods produced
departments are treated as sales and responden are asked to value them as far as possible as if
sold to an independent purchaser. Where separate accounts are not kept they are asked to include
details of all these activities in their return. Particulars relating to head offices mainly entits with in the scope of the census wer
uncluded. Where more than one return was made
int included. Where more than one return was made the
information in respect of the head office was apportioned among them. production (especially the enterprise censuses a Business Monitor PA 1002) related ant antases are combined. An enterprise group is defined as business consisting of either a single establish ownership or control. Bringing together establishments into enterprise groups is also necessary for
the purpose of ensuring that there will be
disclosure of the activities of any one enterprise Information about the relationship of
group.
establishments, the changing structure of groups of estabishments, the changing structure of groups of
companies and about common ownership links is Oxtained from many sources, including the Stock Exchange rear information, company reports, press reports
and
and
establied ishments.

THE REGISTER
The register permits a questionnaire to be sent
direct to the reporting establ ishment on which the direct to the reporting establishment on which the
latter can include information relating to all the manufacturing (or local) units which it comprises.
The inquiries provide a major source of information The inquiries provide a major source of information
for keeping the register continuously up-to-date for keeping 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 returns to the quarterly inquiries, the industrial
classification is derived from an analysis of their classification 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 returns to the annual census of production. In
cases where an establishment does not make a return cases where an establishment does not make a return
to these inquiries the employment data are based on
information provided by the Department of information provided by the Department of
Employment from the annual censuses of employment. Employment from the annual censuses of employment.
New additions to the register are obtained from
various sources including the Department of Employment and HM Customs and Exclse. The 1973
Finance Act allows the latter to pass lists of Finance Act allows the latter to pass lists of
businesses registered for VAT to the BSO. Where
necessary details are sought businesses register for
necessary details are sought directly from new
businesses. Units which cease to trade are removed businesses. Units which cease to trade are removed
from the live register.

In recent censuses returns have been required from all establ ishments employing 20 or more. For the
1979 Census in 68 selected manufacturing industries coverage of establishments in the 20 to 49 employment size band has been reduced to a in 2 sample. need to complete a census return.

Regions
The regions defined in Table 5 take account of the 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 into effect in
April 1974 in England and Wales and May 1975 in Scotland.
TERMS USED IN THE CENSUS REPORT
Average number employed
Establ ishments were required 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 (b) all loyees

Averages coll other employees (operatives)
Averages could be calculated from the figures
relating to the last week of each calendar month.
Establlishent Establ ishments were also required to state the
number of working proprietors where appropriate and number of working proprietors where appropriate and The figures included in total employment figures. or factoring and canteen workers where particulars in respect of these activities could not be excluded from the return

Working propriletors
These include all persons regarded as "selfemployed" for national insurance purposes and
members of their families who worked in the
business business without recelving a wage or salary; but
such persons 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 heading: directors paid by fee only are
Employees
Administr
Administrative, technical and clerical employees include directors in receipt of a definite wage, research and design employees and works foremer, staff, traveltsmen, editorial staff, advertising Operatives include all other classes of employees, that is, broadly speaking, all manual wage earners
They include operatives emp loyed in power stations, transport (including roundsmen), warehouses stores, shops and canteens, inspectors, maintenance
Workers and cleaners.
Operatives engaged in included.
Capital expenditure
manufacturing exitits during the year in respect of started before the end of the year is included. Establ ishments were asked not to deduct from the
value of capital expenditure amounts received or expected to be received in grants or al lowances
from the Government or any statutory body or local authority. Establishments with 100 or more expenditure figure for each calendar year
(a) New building work
This represents the
of new building the cost incurred during the year 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 or reconstruction of old buildings, the value of
Works of a capital nature carried out by the estab-
lishment's own staft and the wisks of a capital nature carried out by the estab-
lishment's own staft and the cost of any newly
constructed constructed buildings purchased. Figures shown
include legal charges, stamp duties, agents' include legal
commissions, etc.
(b) Land and existing bulldings
The items shown are the capital purchased and the capital cost cost of freeholds por leaseholds acquired (excluding the value of
forser assets acquired in taking over an existing
business), and the amounts recelvable for freeholds
 or leaseholds disposed of. The value
charged to capital account during the
(c) Plant, machinery and vehicles
The items shown are the value of plant and
machinery and of vehicles acquired, both new and machinery and of vehicless acquired, both new and
second-hand, and the amount received for second-hand, and the amount recelved for toems
disposed of during the year. The value of plant disposed of during the year.
and machinery accuired include plant, eotc phich
firms produced for their own use in connection with firms produced for their own use in connection with
the business covered by the return. The value of plant, etc acquired is the expenditure charged to
capital account during the year of return less any discounts received, but including the cost of transport and installation.
Deductible value added tax
Deductible value added tax is excluded but mon-
deductible value added tax on motor cars acquired is included. No deduction is mader cars acquired of inems disposed of during the year exclude
amounts written-off for items scrapped Cost of Industrial services
This includes amounts payable to other firms for
work done on materials supplied by the establ ishment, payments for repairs and maintenance
(including those in respect of rented buildings)
and amounts paid to other firms for contracts which
have been sublet.
Cost of non-industrial services
This includes rents of industrial and commercial
builidings, hire of plant, machinery (excluding venicles hired with drivers), commercial
bat and insurance premiums, bank charges and amountserctaid paid
for protessinal services, post office services transpor ( within the United Kingdom), advertising
trants
ent etce Amounts payable on roy lities of tor the right to
use patents, trademarks, copyrights etc, manutacuse patents, trademarks, copyrights etc, manufac-
turi ing, mining and quarrying rights and technical +uring, mining and quarrying
"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 (or reduced by the fall) during
value of goods on hand for sale.

Net output
Net output, a customary census measure, is
cal culated by deducting from gross output the cost cal culated by deducting from gross output the cost
of purchases (reduced by the rise, or increased by the falli, during the year of stocks of materials
etc.) and the cost of industrial services received, etc.) and the cost of industrial
and where appl icable, duties etc.

Net output per head
The $t i$ sures of net
The tifures of neat output per head are derived by dividing the net output by the average number of
persons employed (fuil and part-time)
on all
 operatives, administrative, technical and clerical
employees and working proprietors.
Gross value added at factor cost
Gross value added at factor cost is calculated by deducting from net output the cost, of non-
industrial services eg rent of buildings, hire of plant, machinery and venicles (excluding venicles hired with drivers), commercial insurance premiums, bank charges and amounts paid for professional
services, post office services, transport (withio
 Cexcluding water rates, and the cost of icensing
motor vehicles. This estimate of gross value added moproches more. closely than census net output to
ape definition of net output or value added in the def inition of net outpuu
tati inal accounts statistics.

Gross value added at factor cost per head
The figures of gross value addded ot factor cost
per head are derived by dividing the gross value added by the average number of persons employed
(full and part-time) on all activities covered by ltull and part-time) on all activities cooved by
the returns, including operatives, admin strative,
techat technical and clerical employees and working Proprietor
Purchases
Purchases include the cost of raw materials, comPurchases include the cost of raw materials, com-
ponents. semi-manutactured goods and worshop
materiais; of replacement parts and consumable
 matter; of fuel, electricity and water; materials to be used by the estab tishment or inven
out to oother establ isments for the production of out to other establ ishments for the production of
machinery or other capital items for the establ ishment's oun use; of materials for use by
establishment when working on goods supplied by estamstons; and of food, etc tor any cantern covered
cust
by the by the establ ishment s return. Pransters of goods
to the establ ismment from another department of the same firm not covered by the estabilishment's retur are included at a cost corresponding to the
estimated selling value recorded by the other department. Amounts payable to transport firms or
credited to the firm's own transport department for del ivery of materials are excluded, as are all
purchases of machinery and plant charged to capital
 and
1973. The values shown exclude vaT. They Incluce,
in add ition to the actual In addition to the actual purchase price, the value of packaging mater ial charged to the establ ishment.
The value of returned goods or packaging material returned to suppliers and any yrade discounts are excluded. aterials purchased luty-paid are
included at their duty-paid value, less any Included at their duty-paid value, less any
drawback, rebate, etc. The cost of transport is is included only if it is included with the purchase price in the firm's accounts. I Imorted goods are incruded act their full dill
firm's accounts the transport fred dom docks or airport it not included in the cost of goods purchased, the
cost is entered at cif plus duty (if apol icable). cost is entered at cif plus duty (if applicable).
Leasing, renting and hire purchase charges are Leasing, re
excl luded.
Sales of goods produced
Sales of goods procucced of the annual censuses means
Sal es for the purposes
del liver ins
 by establ ishments in the United Kingdom covered by
the inquiry. Sales of goods made for these estabthe inquiry. Sales of goods made for these estab-
lishments by other establ ishments from
material give out to them and sales of waste products are included. New bui iding work and machinery or other
capital items produced by estab i ishments for hir ing capital items produced by esta ishme les, the value
out or leasing are regarded as sal out or leas ing are regarded as sales, the value
included in the return being that adopted in the
Ostadishen establ ishments' capital asset accounts. Forward
sal es and canteen takings are excl uded. All sal es in the period of the inguiry are included irrespective of when the goods were manufactured. Gooots produced in one establishment
either to and production for which there are separate accounts, or to another wstablishment of the same tirm not
covered by the return, are treated as sales by the covered by the return, are treated as sales by the
producing establ ishment and valued as far as possibite as it they had been sold to an independent purchaser. Goods transferred to wholesale or retail selling organisations, for which separate
accounts are kept are valued on the same basis. accounts are kept fore sales is the net selling
The value shown for sal
value" defined as the amount (excluding NaT) charged to customers whether on an ex-works or
delivered bas is, after any trade discounts and agents' commissions have been deducter. the cost of packing materials ases is included.

## Receipts for work done and industrial services

rendere
Fingres for work done represent the amount charged
for work carried out on materials supplied by customer and include the value of any materials
 exploration work, and research and development. ndustrial services rendered include repairs and

Capital goods produced for establ ishments' own use This includes all work of a capital nature carried
out during the year by the establ ishments' own staft for their own use.
Non-industrial services rendered
This includes rents received for cormercial and
industrial buildings, amounts charged for hiring industrial buildings, amounts charged for hiring
out plant, machinery and vehicles and other goods and amounts charged to other organisations for the received for the right to use patents, trademarks.
copyrights etc, manufacturing, mining and quarrying ights and technical "know-how" and revenue fro Cor facilities as
Goods merchanted or factored
Merchanted goods are those (excluding canteen sales) sold without having been subj
manufacturing process by the seller.
tocks and work in progress
Values are given of stocks of goods on hand for sale and of materiats, 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
for merchanting or factoring. Work in progress is
defined as materials which have been partially processed by the establishment but which are not
usually sold or transferred to another establ int usually sold or transferred to another establ ish-
ment without further processing. The values ment without further processing. The values
include the cost of materials consumed and labour used. Progress payments made to sub-contractor are excluded and progress payments received fro
other organisations are not deducted.

Wages and salarie
These are amounts paid during the year to
operatives and to administrative, technical and
 excluded. The values shown include all overtime
payments, bonuses and commissions, whether paid regularly or not, and no deduction is made for The value of redundancy payments less any amounts The value of redundancy payments less any amounts
reimbursed from Government sources is included. the value of any payments in kind, travelling

Employers' Insurance and welfare contributions
This item incluces employers' contributions to
national insurance under the Social Security inational insurance under the Social Security
Pensions Act, 1975 as well as commercial insurance Pensions Act, 1975 as well as commercial insurance
premiums to provide pensions, superannuation or other retirement benefits, sickess benefits,
personal accident benefits, disability or death personal accident benefits, disability or death
benefits for employees or former employees or their benefits for employees or former employees or the ir
dependants. Contributions to the runing costs of canteens, social centres, children's and hol iday
homes, etc for employees. former homes, etc for employees, former employees and
their dependants are also included.
Operating ratios
The operating ratios shown were obtained by quantity shown in the numerator by the corresponding estimate for the quantity shown in the
denominator. These estimates cover all establishments classified to mach industry, including not selected establishments and non-respondents. Within an industry, it is possible to compar
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 affect the results - for example, differences in
definitions, treatment of depreciation (which is not identified in the census data) and varyin mactice with regard to stock valuation, may affect
comparability in some respects.
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