## PA103

## (1)S/42(HA25)

 (2) $\frac{42}{R 834}$
## 1979

## Business Statistics Office

## Business Monitor

## Report on the Census of Production

## Chalk, clay, sand and gravel extraction

Special Note for Purchasers
Commencing with the 1971 Census, the Census of Production reports are being numbered in a uniform series embracing all industrial inquiries in the Busine Monitor series. Business Monitors have a code $P$ (for
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of less than one year but not monthly or quarterly
and then by a number indicating the minimum list
of the Standard Industrial Classification (revised
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## Business Monitor

Report on the Census of Production 1979

## Chalk, clay, sand and gravel extraction

Presented by the Secretary of State for Industry Perle 1947 ( 10 \& 11 Geo. 6 Cha. 39 sec 7 )

List of Industry Reports, etc.

| PA 1001 | Introductory | PA369. 1 | Electrical equipment for motor vehicles, cycles |
| :---: | :---: | :---: | :---: |
|  |  | PA369. 2 | Primary and secondary batteries |
| PA103 | Chalk, clay, sand and gravel extraction | PA369.4 | Electric lamps, electric light fittings, wiring |
| PA104 | Petroleum and natural gas | PA370 | Shessories, etc. Shipbuiding and marine engineering |
| PA109 | Miscellaneous mining and quarry ${ }^{\text {ing }}$ | PA380 | Wheeled tractor manufacturing |
| PAA211 | in miling | PA381.1 | Motor vehicle man |
| ${ }_{\text {PAA } 213}$ | Biscuits | 31.2 | Trailers caravan |
| PA214 | Bacon curing, meat and fish products | PA382 | Motor cycle, tricycle and pectal cycle manufacturing |
| PA215 | k and milk p | 速 | Aerospace equipment manuacturng and realr y |
| PA216 | Sugar | PA384 | ay track equipment, railway carriages. |
| PA217 | a, chocolate and sugar confectio |  | ons and |
| PA218 | and vegetable products | PA390 | Engineers' small tools and ga |
| PA219 | mal and poultry foods |  | Hand tools and impleme |
| PA221 | Vegetable and animal oils and fats | PA392 | Cutlery, spoons, forks and |
| PA229.1 | Margarine | PA393 | Bolts, nuts, screws, rivets, etc. |
| PA229.2 | Starch and miscellaneous foods | PA394 | Crans and |
| PA231 | Brewing and malting | PA395 | Cans and |
| PA232 | Soft drinks | PA396 | Jewelierra |
| PA239. 1 | Spirit disstiling and compounding | PA | Metal furnitur |
| PA239. 2 | British wines, cider and perry |  | Drop forgings |
| PA240 | Tobacco | PA3999 | Meta hollow wa |
| PA261 | Coke ovens and manufactured fuel | PA399.8 | Miscellaneous metal manu |
| PA262 | Mineral oil refining | PA411 | Production of man-made fibres |
| PA263 | Lubricating oils and greases | PA412 | Spinning |
| PA271. | Inorganic chemicals | PA413 | Weaving |
| PA271.2 | Organic chemicals | PA414 | Woollen and worsted |
| PA271.3 | scellaneous | PA415 | Jut |
| PA272 | rmaceutical chemicals and preparations | PA416 | Rope, twine and net |
| PA273 | Toilet preparations | PA417.1 | Hosiery and other knitted goods |
| PA274 | Paint | PA417.2 | Warp knitting |
| PA275 | Soap and detergents |  |  |
| PA276 | Synthetic resins and plastics materials and | PA421 | Narrow fabrics |
| PA277 | Dyestufts and pigments |  | Household textiles |
| PA278 | Fertilizers | PA422.2 | Canvas goods and sacks and other made-up textiles |
| PA279.1 | Polishes | PA423 |  |
| PA279. 2 | Formulated adhesives, gelatine, etc. | PA429,1 | Asbestos |
| PA279.3 | Explosives and fireworks | PA429.2 | Miscellaneous textile industries |
| PA279.4 | Formulated pesticides, etc. | PA431 | Leather (tanning and dressing) and fellmongery |
| PA279.5 | Printing ink | PA432 | Leather goods |
| PA279.6 | Surgical bandages | PA433 | Fur |
| PA279.7 | Photographic chemical materials | PA441 | Weatherproof outerwear |
| PA311 | Iron and steel (general) | PA442 | Men's and boys' tailored outerw |
| PA312 | Steel tubes | PA443 | Women's and girls' tailored outerwear |
| PA313 | Iron castings, et | PA444 | Overalls and men's shirts, underwear, e |
| PA321 | Aluminium and aluminium allovs | PA445 | Dresses, lingerie, intants wear, etc. |
| PA322 | Copper, brass and other copper alloys |  | Hats, caps and mimery dress industries |
| PA323 | Miscelianeous base metals | PA449.1 | Corsets ana miscellaneous aress indus |
| PA331 | Agricultural machinery (except tractors) | PA449. 2 |  |
| PA332 | Metal-working machine tools | PA45 | Footwear |
| PA333.1 | Pumps | PA4612 | Ruilding bricks and non-refractory goods |
| ${ }_{\text {PA333. }}$ | Valves Compressors and fluid power equipment | PA462 | Pottery |
| ${ }_{\text {PA }}$ | Compressors and fluid power equipment | PA463 | Glass |
| PA335 | Textile machinery and accessories | PA464 | Cement |
| PA336 | Construction and earth-moving equipment | PA469.1 | Abrasives |
| PA337 | Mechanical handling equipment | PA469. 2 | Miscellaneous building materials and $m$ |
|  | Office machinery | PA471 | Timber Furniure and upholstery |
| PA339. 2 | Mrinting, bookbinding and paper goods machinery | PA473 | Bedding, etc. |
| РАЗ39. 3 | Refrigerating machinery, space-heating, |  | Sh |
|  | ventilating and air-conditioning equipment |  |  |
| РАЗ39.5 | Scales and weighing machinery and | PA479 | Miscellaneous wood and cork manufactur |
|  | power tools |  |  |
| PA339.7 | Food and drink processing machinery and | PA482.1 | Cardooard boxes, cartons and fibereboard packing cases |
| РАЗ39.9 | Miscellaneous (non-electrical) mach inery | PA483 | Manufactured stationery |
|  | Industrial (including process) plant and steelwork | PA484. 1 | Wallcovering |
| 342 | Or | PA484.2 | Miscellaneous manufactures of paper and board |
| PA349.1 | Ball, roller, plain and other | PA485 | Printing, publishing of newspapers and periodica |
| PA349. | -Precision chains and other mechanical engineering | PA491 | Rubber |
| PA352 | Watches and clocks |  | Linoleum, plastics floor-covering, leatherc |
| PA353 | Surgical instruments and appliances |  | Brushes and broom |
|  | Scientific and industrial instruments | PA494.1 | Toys, games and children's carriag |
| ${ }^{\text {PA }}$ PA362 | Electrical machinery | PA4945 | Miscellaneous stationers' goods |
| PA363 | Telegraph and telephone apparatus and | 96 |  |
|  |  | PA499, | Musical instrumen |
|  | Radio and electronic components | PAA509 ${ }^{\text {Pa }}$ | Miscellaneous |
|  | Gramophone records and tape recordings |  |  |
|  |  |  | Elect |
|  | Electronic computers | PA603 |  |
| PA367 | Radio, radar and elect |  | ry |

The information in this report relates to establishments classified to the Chalk, clay, sand and gravel extraction industry, minimum list heading 103 in the Standard Industrial Classification (revised 1968). The activities of the industry include:-

Extracting chaik, clay,
out at pits and quarries.

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

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7 Percentage analysi of eme by full ad partime andormentand sex, 1977
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Capital expenditure, 1975-1979
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
Stocks 1975 -1979
All United Kingdom establishments classified to the industry (a)


Analysis of establishments by size, 1979

| $\begin{aligned} & \text { Size } \\ & \text { group } \\ & \text { (b) } \end{aligned}$ | Estab-lishments | $\begin{aligned} & \text { Enter- } \\ & \text { prises } \\ & \text { (c) } \end{aligned}$ | Employment |  |  | Wages and salaries (f) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Total <br> (d) | $\begin{aligned} & \text { Opera- } \\ & \text { tives } \end{aligned}$ | Others <br> (e) | Operatives |  | Others (e) |  |
|  |  |  |  |  |  | Total | $\begin{aligned} & \text { por } \\ & \text { head } \end{aligned}$ | Total | $\begin{aligned} & \hline \text { per } \\ & \text { head } \end{aligned}$ |
|  | Number | Number | Number | Number | Number | £ thousand | £ | £ thousand | £ |
| 1-10 | 777 | 468 | 3,720) |  |  |  |  |  |  |
| 11-19 | 131 | 80 | 1,857) |  |  |  |  |  |  |
|  |  |  | 2,533) | 7.022 | 2,073 | 31.819 | 4,531 | 11,393 | 5,496 |
| 20-49 | 91 | 63 | 2,533) |  |  |  |  |  |  |
| 50-99 | 20 | 16 | 1,354) |  |  |  |  |  |  |
| 100-199 | 9 | 6 | 1,349 | 1,038 | 306 | 5,377 | 5.180 | 1,515 | 4,950 |
| 200 and over | 7 | 6 | 7.837 | 6,014 | 1,823 | 24,926 | 4.145 | 9,914 | 5,438 |


| Total | 1,035 | 565 | 18,650 | 14,074 | 4,202 | 62,122 | 4,414 | 22,822 | 5,431 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

(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 column, i.e. the number of enterprises owning the establishments within the size sroup 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
counts may exceed the total for the industry.

| Total sales and work done (g) | Gross output | Net output |  | Gross value added at factor cost |  | Net capital expenditure <br> (h) | Total stocks <br> at end of year |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | per <br> head | Total | $\begin{aligned} & \text { per } \\ & \text { head } \end{aligned}$ |  |  |
| $\overline{\mathrm{f} \text { thousand }}$ | £ thousand | £ thousand | £ | £ thousand | £ | f thousand | £ thousand |
| 228,462 | 291,263 | 207,914 | 21,969 | (j) | (j) | 35.195 | 13,886 |
| 38,175 | 44,925 | 31,477 | 23,334 | 169,327(i) | 15,660(j) | 2,308 | 1,675 |
| 155,038 | 174.767 | 124,198 | 15,848 | 85,035 | 10,850 | 14,993 | 17,659 |

(d) Including working proprietors.
(e) Administrative, technical and clerical employees.
(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 $£ 15,182$ thousand.
(g) 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.

路
(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 establishments 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 (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 factor cost in the region |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Thousands | per cent of United Kingdom | £ thousand | $\begin{aligned} & \text { per cent of } \\ & \text { United } \\ & \text { Kingdom } \end{aligned}$ | £ thousand | $\bar{£}$ thousand | percentage |
| Standard regions of England |  |  |  |  |  |  |  |
| North | 0.5 | 2.5 | 1.679 | 3.2 | 9.830 | 7.069 | 21.5 |
| Yorkshire and Humberside | 0.7 | 3.6 | 2,312 | 4.4 | 14,381 | 10,401 | 14.0 |
| East Midiands | 1.0 | 5.3 | 3,291 | 6.3 | 22,695 | 16,387 | 27.6 |
| East Anglia | 1.1 | 5.7 | 3,925 | 7.5 | 26,094 | 17,980 | 29.1 |
| South East | 3.8 | 20.2 | 10,884 | 20.7 | 86,745 | 61,791 | 29.5 |
| South West | 7.8 | 42.0 | 16,586 | 31.6 | 118,687 | 79,910 | 89.4 |
| West Midiands | 1.1 | 5.6 | 3,508 | 6.7 | 23,020 | 16,279 | 30.3 |
| North West | 0.8 | 4.1 | 3,549 | 6.8 | 19,740 | 14,925 | 66.5 |
| England | 16.6 | 89.1 | 45.735 | 87.1 | 321,193 | 224,741 |  |
| Wales | 0.6 | 3.1 | 1.088 | 2.1 | 9,095 | 6.657 | 38.1 |
| Scotland | 1.2 | 6.4 | 4,782 | 9.1 | 28,092 | 19,379 | 30.6 |
| Great Britain | 18.4 | 98.6 | 51,605 | 98.3 | 358,380 | 250,777 | - |
| Northern Ireland | 0.3 | 1.4 | 891 | 1.7 | 5,209 | 3,585 | 6.4 |
| United Kingdom | 18.6 | 100.0 | 52,496 | 100.0 | 363,589 | 254,362 |  |

(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

table 6
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 |
| :---: | :---: | :---: | :---: |
| 1979 |  | per cent | per cent |
|  | April (a) | 1.7 | 0.4 |
|  | May | 5.1 | 1.5 |
|  | June | 5.1 | 1.5 |
|  | July | 1.7 | 0.8 |
|  | August | 1.7 | 0.2 |
|  | September | 13.6 | 59.2 |
| 1980 | October | - | - |
|  | November | 3.4 | 0.6 |
|  | December | 61.0 | 31.6 |
|  | January | - | - |
|  | February | 1.7 | 0.3 |
|  | March (b) | 5.1 | 4.2 |

(a) From 6th April.
(b) Including returns made for twelve-month period ended 1st to 5 th 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 | 89 | 1 | 90 |
| Female | 8 | 2 | 10 |

Female
10

[^0]table 8
Operating ratios, 1978-1979
All United Kin
All United Kingdom establishments classified to the industry (a)

Gross output per head

| Unit | 1978 | 1979 |
| :--- | ---: | :--- |
| $£$ | 25,533 | 27,397 |
| $£$ | 16,508 | 19,495 |
| $£$ | 11,579 | 13,639 |
| $\%$ | 45 | 50 |
|  | 18.6 | 15.4 |
| $\%$ | 33 | 33 |

-a sarcentage of gross value added

| 3.3 |  |
| :--- | :--- |
| 3.3 | 3.3 |

Ratio of operatives to administrative, technical and clerica
3.3

Wages and salaries per administrative, technical and clerica
Wages and
employee
$\begin{array}{lll}\mathrm{E} & 4.240 & 5,431\end{array}$
Wages and salaries per operative
£
$\begin{array}{ll}3,810 & 4,414\end{array}$
ataital expenditure per head
2,456
2,815

Net capital expenditure as a percentage of gross value added
a) Including estimates for establishments not making 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 year

Notes
These notes give the main information neaded for
interpreting the tigures in the industry Business Monitors:- more detal led 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
Changes made for 1979
The Census for 1979 is in line with similar of the European Comunity. The membus differed from the 1978 census in three respects. A question on the leasing of capital assets was removed from
the form and a question on road transport the form and a question it
added. The sample of units in the 10 to 19 employment size
repeated.
Suppression of information relating to individual Sup
undertakings
Section $9(5)$ (b) of the Statistics of Trade Act 1947 states
effect
with respect to any report, summary commin cat ion to the public of informat ion obtained
 it as to prevent any particulars published therein from being Identified as being particu-
lars relating to any individual person or undor-
taki
 writing of that person or the person carrying on
that that undertaking, as the case may be but this
provis ion shall not prevent the discl osure of the protal cuantity or value of any articless produced,
told or del i vered; so, however, that before
 Shem by any person who al leges that the dis-
them
cosure closure thereot would enable particulars relat ing
to im on to an undertaking carried on by him to
 it a figure invilved disclossure the contributor
encerned was somet imes asked to give permission concerned was somet imes asked to give permission
tor its publicationes the majorite of cases
permission was given. When it was refused and
 has been suppressed, elther by combining it with
oother tigures, or as th the regional tables, by
omitting the figure altogether.

Symbol sused symblis are used throughout the PA
Thm of low ing symber
seri ies of Busi ness Monitors:
not aval lable
nit or less than half the final digit shown
film nitares cannot be shown owning to therisk of
tise
tisclosing information about individual $R \quad \begin{aligned} & \text { enterprises } \\ & \text { revised }\end{aligned}$
Rounding of flgures
Figures in in the tables have, where necessary, been rounded to the nearest final digit. Where figures have been so rounded, the sum of the constituent
items may not al ways agree exactly with the total

Industrial classification
 was subsequent ty revis ed in 1958 , 1968 and 1980 . is exists to promote uni formity and comparability
in the official statistics of the United Kingdom. in the official statistics of the United kingdom.
Prior to the 1980 revision the general principles

Fol lowed were those of the International Standard ndustrial Classification of all Economic
Activities of the United Nations Statistical Office Activities of ted Kingdom sic has retlected the
but the United but the
organ sation and structure of industry and trade as
It axisted in the United Kingdom. For the 1980 it existed in the United Kingdom. For the 1980
evision an attempt was made to align the United
 With NACE, the classitication in use by the the
Statisticai Office of the European Comunity. The Statistical office of the European Cormunity. The
sic is a classification by activity and is not a commoity classificication An index based on the
1968 sic for all commodity headings for which sales 1968 SIC for all commodity headings for which sales
data are provi ded in the quarterly business data are provided in the quarterly business
monitors is publ ished in Bus iness Monitor Po 1000 .
Statistical units $\begin{gathered}\text { The statistical for the purpose of the Census }\end{gathered}$ The statistical unit for the purpose of the Census
is the estobl isment which is det ined in the sic
then as the smallest unit, which can provide the infor-
mation normally required for an economic consus mation normally required for an economic ensus,
for example, employment, expenses, turnover, for example, employment, expenses, turnover,
capital formationp osually the principal activi-
teas carried on in an establ shment fall within a ties carrited on in an establishment fall within a
single head ing of the classification (eg steel
salele

 a single address eg a mine or a factory, including
those which are ancillary to the principal

 on at one address, but normally these are not
classitied separaty and the whole establi shment
Is classified according to Classified separately and the whole establishment
Is classifited according to the main activity. It,
how however, the reauired range of data can be provided
for each activity, each is taken to constitute a tor each activity, each is taken to constitute a
separate astabl ishment. Somet mes activities wh ch
are separate establi shment. Somet mes activities which
are conducted as single bus iness are carlied on
at a number of addresses. where this is so busi nesses are asked tos ses. Wide the this is so,
intormation tin renge of intormat ion in respect of each addresss, whether or
not the activit ies are different Their may, however, be integrated to such an extent thet that
thay constitute e sit they constitite a single establ ishment. In the the
latere cose the estabi ishment is def ined to cover
ther
 local units). Separate fi gures are obstained of
employment and net capital expend iture at each unit In order to compile regional tables. Eftords are made by the Bus iness statistics office
(BSO) to ensure, by negot iating with respondents, (BSO) to ensure, by negotiating with respondents,
that the reurn
trom an establ ishment does not cover local units in more than one of the countries
of the United Kingdome of the Uni ted Kingdom.
Establ ishments Establ ishments are asked to exclude from their
returns particulars relating to any department not returns particulars re lating to any department not
engaged in prouction eg merchanti ing, transport, warehousing, tor which they keep a separate set of accounts. Transters of goods proauced to sucn
departments are treated as sal les and respondents are asked to value them as far as possible as it sold to an independent purchaser. Where separate detalls of all these activities in their return. Particulars relating to head offices mainly
engaged in the administration of the production engaged in the administration of the production
units within the scope of the census were included. Where more than one return was made the
information in respect of the head office was information in respect of the head office was
apportioned among them. apportioned among them.
 Business MonItor PA 1 Por2) related estall ishments are combined. An enterprise group is def ined as a
bus iness consi isting of either a single establ ishmest
ment or two or more of establ ishments under ocmmon
ownership or control. Bringing together establ ishMonnership or oontrol. Bringing together establith-
ments into enterprise groups is aiso necessary for ments into enterprise groups is also necessary tor
the purpose of ensuring that there will be mo disclosure of the activities of any one enterprise
group Information about the relationship of
 obtail ned from many sources, including the stock
Exchange Year Book, company, renorts press rent Exchange Year Book, company reports,
information
suppl lied establ ishments.
THE REGI STER
The reai ster
The register permits a questionnaire to be sent
direct to the reporting establ ishment on which the
 manuacturing (or local) units which it comprises. for keeping the register cont inuously up-to-date and act as a check on its detail and structure.
For the establ ishments on the register making returns to the quarterly inquiries, register making the industrial
clasit classitication is derived from an analysis of their
sales of commodities and is reviened Smployment commodities and is reviewed annually.
Emare entered on the register from Emporment date are entered on the register from
returns to the annual census of production. In
cases
 Employment from the ard anual censuses oepartment of employment.
of New additions to the register are obta ined from
vari ous sources including the Department oof


 Coverage
all establ consuses returns have been requi ired from
1979 Cents employing 20 or more. For the coverage of establ isterted manufacturing industries ment size basd has been reduced or o 1 in 2 2employ-
This change has rel leved some 5,800 tirms of the This change has rellieved some
need to complete a census return
Regi ons
The regions defined in Table 5 take account of the
boundary bouvdary changes aris. ng out of the Local
Government Act 1972 and the Local Government Act
(Scot (Scotland) 1973 . These changes came into effect in
Aprit 19774 in England and Wales and May 1975 in
Scotland scotiand.
TERMS USED IN THE CENSUS REPORT
Average number employed
Establ i ishments were
Estabi shments were required to state the average
number of persons on the payrol I during the year of return, separate tigures were required for: year
(a) admin strative,
technical and and (b) employees
$\qquad$
 relating to the last week of each cal endar month.
Establi ishments were al so required to state the

 or factoring and canteen workers where particulars in respet of these activities could not be
excluded from the return. Working proprietors
These include all persons regarded as "self-
employed" for national insurance purposes and
members of their menbers of their fanilles who worked in and
business without recelving a wage or salary; but
such persons who worked less wat
 wumber of working hours are excluded. Directors
working in the business but not in receliptor of
det inite wage, salary or commission are included
under this heading: directors paid by tee only are
not Employees
Admin istra
Administrative, technical and clerical employees
include
sal include directors in receipt of a def inite wage,
salary or comission, managers and works foremen
 tives), draughtsmen, editorial stat $f$, advertising
staft, travellers and all office statrat traveliers and all oftice employees.
Operatives include all other classes of employees, that is, broally speak ing, all mases of mage earners.
They include operat ves employed They include operatives emp loyed in power stations,
transport (including roundsmen)

 outs ide
incl luded.
Capital expenditure
Capital expend
Capital expenditure during the year in respect of
manufacturi
 Establ ishments, were asked not to deduct from the
value of capital expenditure amounts received or expected to be recelived in grants or allowances orrom the Govermmen or any statutory body or local
fouthor ity.
Establ Ishments authority. Establi ishments with 100 or more
emp loyees were asked tor expend iture fi gure for each cal lendar year.
(a) New building work
This represents the
his represents the cost incurred during the year
of new building and other construct ional work to be used in connect on with the bus iness oovered by the
return.
The value is that chared
 or reconstruction of old buildings, the value of works of a capital nature carried out by the estab-
I ishment ilishment's own staft and the cost of any newly
constructed buildings purchased.
Figures shown mole include legal charges, stamp duties, agents'
comissions, etc.
(b) Land and existing buildings

The items shown are the capital cost of freenolds
purchased and the capital cost or premium payable purchased and the capital cost or premium payable
tor leasenolds acquired (excl uding the value of assets accuired in tain ing over an existing
business), and the amounts recel vable for treeto business), and the amounts receivable for treetholds
or leaseholds disposed of. The value is that charged to capital account during the year of
return.
(c) Plant, mach nery and venicles
The en items shown are he velue of plant and
machinery and of vehicles acau ired, both new and
 and mach inery accuired includes plant, otc whith
firms produced for their own use in connection with firms produced for their own use in connect ion with
the business covered by the return. The value of
thant its the business covered by the return. The value of
plant, etc acau red is the expenditure charged to
cap ital account capital account during the year of return less any
discounts received, but including the mst the cost of Dransport and installation.
Deductible value added tax deductible value added tax is excluded but nonis included. No deduction is made for deprecia-


Cost of industrial services
This inc iudes amounts payabe to other firms for
work done on material spapl supp ied by the estabi Ishment, payment for repalirs and matintenance
(including those in respect of rented buildings)
and amounts paid to other firms for contracts which
have been suble
Cost of non-industrial services
Cost of non-industrial services
This includes rents of industrial and commercial buildings, hire of plant, machinery and vehicles (excluding vehicles hired with drivers), commercial
insurance premiums, bank charges and amounts paid In prest professional services, post office services,
for
transport (within the United Kingdom), advertising transport (within the United Kingdom), advertising
etc. Amounts payable on royalties for the right to etc. Amounts payable on royalties for the, manufacuse patents, traaemarks, copyrights etc, manufac "know-how" are also included.
Gross output
In the calculation of gross output the value of
total sales and work done is increased by the rise total sales and work done is increased by the rise
(or reduced by the fall) during the year in the (or reduced by the fall) during
value of goods on hand for 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, or increased by
ther the the fall, during the year of stocks of materials
etc.) and the cost of industrial services received, etc.) and the cost of licable, duties etc.
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 (full and part-rime) on all
activities covered by the returns, including actatives, 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 nonindustrial services eg rent of buldings, hire of
plant, machinery and vehicles (excluding vehicles plant, mach inery and ventercial insurance premiums, bank charges and amounts paid for professional
services, post office services, transport (within services, post office services, transport (within
the United Kindom, and advertising, rates (excluding water rates) and the cost of il icensing
motor vehicles. This estimate of gross value added approaches more closely than census net output to approaches more closely than census net output to
the definition of net output or value added in
national accounts statistics.

Gross value added at factor cost per head The figures of gross value added at factor cost per head are derived by dividing the gross value
added by the average number of persons employed added by the average number of persons employed
(full and part-time) on all activitios covered by the returns, including operatives, administrative,
technical and clerical employees and working technical and
proprietors.
Purchases
Purchases include the cost of raw materials, components, semi-manufactured goods and workshop
materials; of replacement parts and consumable tools not charged to capital account; of packaging
materials of all types; of stationery and printed materials of all types; of stationery and printed
matter; of fuel, electricity and water; of
fate materials to be used by the establishment or given
out to other establishments for the production of out to other establishments for the production of
machinery or other capital items for the establish-
ment's own use; of materials for use by the ment's own use; of materials for use by the
establishment when working on goods supplijed by customers; and of food, etc for any canteen covered
by the establ ishment's return. Transfers of goods by the establ ishment's return. Transfers of goods
to the establ ishment from another department of the same tirm not covered by the establishment's return
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
delivery of materials are excluded, as are al delivery of materials are excluded, as are al
purchases of machinery and plant charged to capita purchases of machases of goods for merchanting o factoring have been collected separately since
1973. The values shown exclude VAT. They include, in addition to the actual purchase price, the val of packaging material charged to the establishment. The value of returned goods or packaging material
returned to suppliers and any trade discounts are excluded. Materials purchased duty-paid are included at their duty-paid value, less any
drawack, rebate, etc. The cost of transport is
included only if it 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 price in the firm's accounts. Imported goods are
included at their full delivered cost. If in the firm's accounts the transport from docks or airport firm's accounts the transpor from docks or included in the cost of goods purchased, the cost is entered at cif plus duty (if applicable).
Leasing, renting and hire purchase charges are Leasing,
excluded.

Sales of goods produced
Sales for the purposes of the annual censuses means dey establ ishments in the Units raised or goods made the inquiry. Sales of goods made for these establishments by other establishments from materials given out to them and sales of waste products are
included. New building work and machinery or orter capital items produced by establ ishments for hiring
cor 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 capital asset accounts. Forward in the period of the inquiry are included irrespective of when the goods were manufactured. Goods either to anclllary departments not engaged in production for which there are separate accounts, or to another establishment of the same firm not covered by the return, are treated as sales by the
producing establishment and valued as far as producing establishment and valued as far as
possible as if they had been sold to an independent purchaser. Goods transterred to wholesale or accounts are kept are valued on the wheme sasis. The value shown for sales is the "net selling
value" defined as the amount (excluding VAT) harged to customers whether on an ex-works or delivered basis, after any trade discounts and agents' commissions have been deducted. The cost packing materials ases is included.

Receipts for work done and ind

## endered

ork done and industrial services igures for work done represent the amount charged
for work carried out on materials supplied by a customer and include the value of any mater al als
bought and used in such work. Activities within bought and used in such work. Activities within
this heading include repair and jobbing work, this heading include repair and jotion of plant and machinery, exploration work, and research and development. Industrial services rendered include repairs and
installation work, and technica maintenance, installation work, and technical
research and studies for other organisations.
Capital goods produced for establishments' own use This includes all work of a capital nature carried
out during the year by the establishments' own staff for their own use.
Non-industrial services rendered
This includes rents recelved for commercial and industrial buildings, amounts charged for hiring out plant, machinery and vehicles and other goods
and amounts charged to other organisations for the provision of transport. It also includes amounts
copyrights etc, manufacturing, mining and quarrying
rights and technical "know-how" and revenue from such staff facilities as canteens
Goods merchanted or factored
Merchanted goods are those (excluding canteen
sales) sold without having been subjected to any號 by the seller.

Stocks and work in progress
Values are given of stocks of goods on hand for
sale and of materials, stores and fuel, at the end sale and of materials, stores and fuel, at the end
of the year of return and of the change during the of the year of return and of ine change during the
year, including any stocks of goods held for
merchanting or factoring. Work in progress is merchanting or factoring. Work in progress is
defined as materials which have been partlally processed by the establishment but which are not
 ment 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 fro

Wages and salaries
These are amounts paid during, the year to
operatives and to administrative, technical and
clerical employees.
Payments to working Payments to working
proprietors, employees. whether called salaries or not, are excluded. The values shown include all overtime
payments, bonuses and commissions, whether paid payments, bonuses and commissions, whether paid
regularly or not, and no deduction is made for income tax, insurances, contritutory pensions etc. The value of redundancy payments less any amounts
reimbursed from Government sources is includedreimbursed from Government sources is included.
The value of any payments in kind, travelling expenses etc is excluded.
Employers' insurance and welfare contributions
This item includes national inscludes employersi contributions to
nate under the Social Security Pensions Act, 1975 as well as commercial insurance
premiums to provide pensions, superannuation or prer retirement benefits, sickness benefits,
other
personal accident benefits, disability or death personal accident benefits, disability or death
benefits for employees or former employees or their
dependants dependants. Contributions to the running oosts of
canteens, social centres, children's and hollday homes, etc for employees, former employees and

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 correspond ing estimate for the quantity shown in the
denominator. These estimates cover all establish denominator. These estimates cover all establish-
ments classifled to each industry, including not selected establishments and non-respondents.
Within an industry, it is possible to compare Within an industry, it is possible to compare
ratios for an individual firm with the ratios shown 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 definitions, treatment of depreciation (which is
not identified in the census data) and varying not icentited in the census data) and vary ing
practice with regard to stock valuation, may affect
comparability in some respects.
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[^0]:    (a) The percentages relate to the numbers employed (excluding working proprietors) in the United Kingdom at mid-June, 1977, the latest

