## PA104

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OEPGilISCAL AND ECONOMIC SCIENCE

## Business Monitor

A publication of the Government Statistical Service

## Report on the Census of Production

## Petroleum and natural gas

Department of Industry Business Statistics Office

Special Note for Purchaser
Commencing with the 1971 Census, the Census of Production reports are being numbered in a uniform series embracing all industrial inquiries in the Busine (for pros. Th) follow f M A (in have a code (for production) followed first by A (indicating tha is an annual seres) or Q (quarth) or M (monthly) nd then by a number $Q$ (caing the minimum lis e Standard Industrial Classificion (seved l98).

The Census of Production (PA) reports are available on standing order (details on application to Her Majesty's Stationery Office, P.O. Box 569, Londo SE1 9NH. Telephone 01-928 6977), although they ar ot included in the global subscription arrangements for the Business Monitor series.

Government Statistical Service
A service of statistical information and advice is provided to the Government by specialist staffs mployed in the statistics divisions of individual Departments. Statistics are made generally available through their publications and further information and advice on them can be obtained from the Departments concerned.

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Report on the Census of Production 1972

Petroleum and natural gas

Presented by the Secretary of State for Industry
o Parliament in pursuance of the Statistics of Trade Act 1947 ( 10 \& 11 Geo. 6 Cha. 39 sec 7 )

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| PA352 | Watches and clocks | PA489 | General printing, publishing, etc. |
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| PA363 | elegraph and telephone apparatus and equipment | PA494. | Toys, games and children's carriages |
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|  |  |  |  |
| (ii) |  |  |  |

The information in this report relates to establishments classified to the Petroleum and natural gas industry The inform list heading 104 in the Standard Industrial Classification (revised 1968). The activities of the minimum ind ry include:-

Exploration (including boring) for and extracting petroleum on land and off-shore, mining oil shale (in-
cluding oil shale retorting). Petroleum includes natural gas and natural gas condensates. Producer's cluding oil shale retorting). Petroleum includes natural gas and natural gas condensates. Producer's
off-shore pipe lines are included but not pipe line terminals owned by associated companies or the Gas off-shore
Council.
The report relates to the United Kingdom part of the continental shelf for of f-shore operations.
The tables have been compiled from returns made to the Department of Trade and Industry. In 1970 the report
was published in combination with the Salt and miscellaneous non-metalliferous mining and quarrying industry,

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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table 1
Input and output, 1970, 1971 and 1972
All Great Britain establishments classified to the industry (a)

|  | Unit | 1970 | 1971 | 1972 |
| :---: | :---: | :---: | :---: | :---: |
| Enterprises | Number | 9 | 15 | 19 |
| Establ ishments | " | 12 | 21 | 28 |
| Sales of goods produced and work done (b) | $£^{\prime} 000$ | 55,937 | 86,458 | 122,154 |
| Services rendered to other organisations | " |  | 1,538 |  |
| Goods merchanted or factored | " |  |  |  |
| Canteen takings | " | 17 | 69 | 2,268 |
| Total sales and work done | " | 55,954 | 88,066 | 124,422 |
| Increase during the year, goods on hand for sale | " | - 7 | - | - |
| Gross output | " | $55,947^{\text {R }}$ | $88,066{ }^{\text {R }}$ | 124,422 |
| Cost of purchases (c) | " | 12,726 | 10,470 | 9,237 |
| Increase during the year, stocks of materials, stores and fuel | " | 384 | 1,411 | 228 |
| Payments to other organisations for work done on materials given out |  |  |  |  |
| for transport by road | " | 84 | 65 | 127 |
| for transport by rail, water, air and Post Office parcel services | " | 3,789 | 2,087 | 3,932 |
| Royalties, etc. | " | 3,944 | 7,484 | 10,754 |
| Total costs | " | 20,159 | 18,695 | 23,822 |
| Net output | " | $35,788^{\text {R }}$ | $69,371{ }^{\text {R }}$ | 100,600 |
| Total employment (including working proprietors) (d) | Thousands | 1.1 | 1.3 | 1.6 |
| Net output per head | £ | $32,803{ }^{\text {R }}$ | $53,403^{R}$ | 62,060 |

a) See third paragraph of the introduction to this report.
(b) Sales of products are valued on a well-head, pipeline terminal or delivered basis.
(c) Includes payments to other organisations for work done
(d) Average number employed (full and part-time; see table 6) during the year by the establishment

ABLE 2
PA104 3
Capital expenditure and stocks, 1970, 1971 and 1972
111 Great Britain establishments classified to the industry (a)


See third paragraph of the introduction to this report
Capital expenditure in respect of establishments where production had not commenced before the end of the year, is included.
Acquisitions less disposals.

TABLE 3
Analysis of establishments by size, 1972
All Great Britain establishments classified to the industry (a)

| Size group (b) | Estab-lishments | Enterprises (c) | Total employment (b) | Employees |  | Wages and salaries |  | Wages and salaries per head |  | Total sales and work done (e) | Gross output | Net output | Net output per head | Capital expenditure (net) (f) | Total stocks at end of year |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Operatives | 0thers (d) | Operatives | Others <br> (d) | Operatives | 0 thers (d) |  |  |  |  |  |  |
|  | Number | Number | Number | Number | Number | £'000 | £'000 | £ | £ | £'000 | £'000 | £'000 | £ | £'000 | £'000 |
| 1-10 | 11 | 8 | 18 |  |  |  |  |  |  |  |  |  |  |  |  |
| 11-24 | 3 | 3 | 58 | 327 | 211 | 730 | 967 | 2,231 | 4,583 | 37, 266 | 37,266 | 32, 148 | 59,754 | 29,709 | 1,666 |
| 25-49 | 6 | 6 | 197 |  |  |  |  |  |  |  |  |  |  |  |  |
| 50-99 | 4 | 4 | 265 |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & 100 \text { and } \\ & \text { over } \end{aligned}$ | 4 | 3 | 1,083 | 249 | 834 | 541 | 3,299 | 2,174 | 3,955 | 87,156 | 87,156 | 68,453 | 63,207 | 83,798 | 3,294 |
| Total | 28 | 19 | 1,621 | 576 | 1,045 | 1,271 | 4,266 | 2,206 | 4,082 | 124,422 | 124,422 | 100,600 | 62,060 | 113,507 | 4,960 |

(a) See third paragraph of the introduction to this report:
(b) Average number employed (full and part-time; see table 6) during the year by the establishment.
(c) Some enterprises control establishments in more than one size group: the sum of the figures for the size groups will therefore exceed the total for the industry.
(d) Administrative, technical and clerical employees.
(e) Including sales of goods merchanted or factored, canteen takings and services rendered to other organisations (amounts charged for hiring out plant, machinery or other goods, for providing transport, or for any technical or other services rendered).
(f) Acquisitions less disposals. Also includes capital expenditure in
ture in

Regional distribution of employment, net capital expenditure and net output, 1972.

All Great Britain establishments classified to the industry.

This table is not applicable to the industry.

TABLE 5

Percentage analysis of twelve-month periods covered by returns received from Great Britain establishments employing 11 or more persons, 1972 (a)

|  | Accounting year ended | Percentage of total returns received | Percentage of total number employed |
| :---: | :---: | :---: | :---: |
| 1972 |  | per cent | per cent |
|  | April (b) | 0.0 | 0.0 |
|  | May | 0.0 | 0.0 |
|  | June | 0.0 | 0.0 |
|  | July | 0.0 | 0.0 |
|  | August | 0.0 | 0.0 |
|  | September | 0.0 | 0.0 |
| 1973 | October | 0.0 | 0.0 |
|  | November | 2.3 | 7.1 |
|  | December | 97.7 | 92.9 |
|  | January | 0.0 | 0.0 |
|  | February | 0.0 | 0.0 |
|  | March (c) | 0.0 | 0.0 |
|  |  | 100.0 | 100.0 |

(a) See third paragraph of the introduction to this report.
(b) From 6th April.
(c) Including returns made for twelve-month period ended 1st to 5th April 1973.

Percentage analysis of employees, by full and part time employment and sex, 1972 (a)

| Sex | Full time | Part time | All employees |
| :---: | :---: | :---: | :---: |
| Male | per cent | per cent | per cent |
|  | 82 | - | 82 |
|  | 16 | 2 | 18 |

Source: Department of Employment
(a) The percentages relate to the numbers employed (excluding working proprietors) in Great Britain at mid-June, 1972.
table 7
Sales of principal products of the industry by establishments employing 11 or more persons, including sales by establishments classified to other industries, 1972

## Does not apply

For this industry, the quarterly inquiry into manufacturers' sales did not commence until the first quarter of 1973 .

Notes
These notes give the main information needed for interpreting the figures in the industry reports, (more detailed information abut the census is given in a separate booklet-"Introductory
Notes", Part PA 1001 of the Report on the Census of Production for 1972).
general information
Thanges were only minor changes in the scope of certain industry reports compared with 1971. Any such changes are explained in the introductions to the industry reports concerned or by
ootnotes to the tables.

Industrial classification
The Annual Censuses of Production are conducted on the Business Statistics Offcee's Production Register. Normally
establishments on the Register are classified to industries on the basis of major activity in conformity with the Standard Industrial Classification (revised 1968). Generally an,establishment is classified to an industry if its sales of the principal
products of that industry accounts for a greater proportion of ts total sales than its sales of the principal products of any othe ndustry: classification is generally based on an establishment's possible-for example where a quarterly production inquiry has not been introduced-the classification of an establishment
reflects its return to the Census of Production 1968. Establishreflects its return to the Census of Production, 1968. Establish-
ments for which information is not available either from the quarterly inquiries or the 1968 Census are classified on the basis of the description of the business given by the establishments to the Business
registration.

Coverage
Detailed
census returns were generally sought only from establishments employing or average 25 or more persons, but in some industries where firms employing less than 25 person and output the exemption limit was lowered to 11. Census eturns were also sent to establishments whose employment was
not known to the Business Statistics Office at the time of dispatch.
terms used in the census report
Average number employed
the payroll (i.e. whose natiod to state the number of persons on the payroil (i.e. whose national insurance cards were held by
hem) on the average during the year of return, whether full-time
or part time employes Separete or part time employees. Separate figures were required for (a)
administrative, technical and clerical employees and (b) all other employees (operatives). Averages could be calculated from gures relating to the last week of each calendar month. stabishments were also required to state the number of working
proprietors where appropriate and these are included in total employment figures. Outworkers (i.e. persons employed by stablishments who worked in their own homes etc. On material Thplied by the establishments) are excluded
and canteen workers where particulars in respect of thes activities could not be excluded from the return.

Working Proprietors
These include all persons regarded as "self employed" for ational insurance busiposs without recive a who worked in the business without receiving 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 ut not in receipt of a definite wage, salary or commission are included
included.
Employees
Administrative, technical and clerical employees include managing and other directors in receipt of a definite wage, salary commission, managers, superintendents and works foremen; employees (oxperimental development, technical and design
(other operatives); draughtsmen and tracers. employees (other than operatives); draughtsmen and tracers;
editorial staff, staff reporters, canvassers, competition and advertising staff; travellers; and office (including works office)
employees.
breadly speaking all manual wage earners. They include those readly speakn gn about the factory or works: cude those employed in power houses, transport work (including roundsmen), stores, warehouses, shops and canteens, inspectors, ewers and similar workers; maintenance wokers and cleaners. also included, but out-workers are excluded.
Capital expenditure
Capital expenditure during the year in respect of manufacturing ear is included in the figures for both 1970,1971 and 1972 . stablishments were asked to include in the value of capital expenditure, amounts received under the Local Employment Acts, 1960 to 1971 and any investment grants received under the rants under the Industry Act, 1972
(a) New building work
This represents the cos
his represents the cost incurred during the year of new building and other constructional work (including office buildings,
canteens and the like used in connection with the business covered by the return, but not dwelling houses for employees). he value is that charged to capital account during the year of
hturn: it includes expenditure on new buildings or on the return; it includes expenditure on new buildings or on the
extension of reconstruction of old buildings, the value of works of a capital nature carried out by the establishment's own staff Figures cost of any newly constructed buildings purchased, Figures shown in
commissions, etc.

Land and existing buildings
The items shown are the capital cost of freeholds purchased and the capital cost of premium payable for leaseholds acquired existing business), and the amounts receivable for any freeholds leaseholds disposed of. The value is that charged to capital account during the year of return.
(c) Plant, machinery and vehicles

The items shown are the value of plant and machinery and of The items shown are the value of plant and machinery and of
vehicles acquired, both new and second-hand, and the amount received for items disposed of during year. The value of plant
and machinery accuired includes plant, etc., which firms produced for their own use in connection with the business covered by the return. The value of plant, etc., acquired is the expenditure charged to capital account during the year of return
less any discounts received, but including the cost of transport less any discounts received, but including the cost of transport
and installation. No deduction is made for depreciation, amortization or obsolescence. The proceeds of items disposed of Enterprise
The terme enterprise is used in this report to mean one or more in the Companies Act 1948) making returns to the census An enterprise may consist of a single establishment, or of more than one establishment owned by one legal unit, usually a company, or of a number of estabis or companies. Information about the relationship between constituent companies of enterprises was obtained mainly from published sources such as the Stock Exmany reports and information supplied by establishments. The information available is not complete but covers the largest and most important groups of industrial establishments and is
analysis.

## Establishment The definition

The definition of an establishment in 1970, 1971 and 1972 was that of the Standard Industrial Classification (revised 1968): "the smallest unit which can provide the information normally required for an economic census, for example, employment,
expenses, turnover, capital formation". Sometimes activities which are conducted as a single business are carried on at a number of addresses, termed local units. Where the activities of such a business are closely integrated, and detailed census
information is not available for each information is not available for each unit, it is treated as a
multi-unit establishment and a single return accepted. Separate figures are obtained, however, of employment and net capital
expenditure at each unit.

Gross output
Gross output measures the total value of production (including
work done) by establishments during the year. It is calculated as follows:-
Value of sales and work done
Pess: Increase/decrease in value of stocks of goods on hand Plus/Less: Increase/decrease in value of stocks of goods on
for sale
Plus/Less: Increase/decrease in value of work in progress Plus/Less: Increase/decr

Net output
Net output represents the value added to materials by the process of production (including the margin on selling any merchanted or factored goods). It
Gross output
Less: Purchases adjusted for change in value of stocks of fuel and raw materials
ass: Payments for work
Less. Payments for work given to other establishments
Less: Payments for transport
Less: Net amount of any duties, subsidies, allowances and levies payable
Net output
Net output per person employed
The figures of net output per person employed are derived by The figures of net output per person employed are derived by
dividing the net output by the average number of persons
employed (full time and part time) on all activitities covered by the employed (full lime and part time) on alla activities covered by the
returns, including operatives, administrative, technical and
clerical employees and working proprietors, but excluding clerical emp.
outworkers.
Purchases
Purchases include the cost of materials and components bought Purchases include the cost of materials and components bought
or use in production; of fuel and electricity for all purposes: of packaging materials including the cost of returnable cases and containers when first purchased: of workshop materials, office
materials and materials for repairs to establishment's own materials and materials for repairs to estabish by their own work people included in the returns; of consumable tools; and
of parts for machninery purchased during the year as replaceof parts for machninery purchased during the year as replace
ments. Water charges are also included. In general, purchases of goods for merchanting or factoring and canteen supplies are
included. Materials supplied by customers for processing are included. Materials supplied by customers for processing excluded, as are all purchases charged to capital account.
The values shown include any duty paid (less rebate, etc.) bu
隹 The values shown include any duty paid (less rebate, etc.) but
exclude trade discounts allowed. The cost of transport is included only if included in the cost of materials as invoiced: amounts
paid to transport organisations, including an establishment's paid to transport organisations, including an establishment's
own separate transport organisations for delivery of materials own separate transport organisations for dilivery ored materseas
and fuel are, therefore, excluded. Materials purchased overseas are included at the c.i.f. cost plus any duty payable if the cost of
transport from the docks was not included in the invoiced price, transport from the docks was not included in the invoiced price,
but at their full delivery cost if invoiced "carriage paid home" Materials and fuel transferred from another department of the establishment not covered by the same return are included
estimated selling value recorded by the other department.
Sales
Sales
Sales are in respect of goods made by the business covered by
the return, goods made for it by outworkers or by other the return, goods made for it by outworkers or by other
establishments from materials given out to them (sometimes described as goods made on commission) and waste products
Any machinery or other capital items produced for use in the Any machinery or other capital items produced for use in the
business covered by the return are included, the value being that business covered by the return are included, the value being that
adopted in the establishment's asset accounts. Goods sold
without being subjected to any manuacturing process (i.e. without being subjected to any manufacturing process (i.e merchanted or factored) and canteen takings are included.
The value shown for sales is the net selling value, defined as the The value shown for sales is the net selling value, defined as the
amount charged to customers whether on an ex-works or delivered basis excluding any trade discounts, agents con-
missions, allowances for returnable cases, purchase tax, etc. : the missions, allowances for returnable cases, purchase tax, etc.: the
net amount charged for packaging materials is included. Goods charged on a delivered basis to customers overseas are included charged on a delive
at the f.o.b. value.
Goods produced in one establishment and transferred to another establishment of the same firm not covered by the return were treated as sales by the producing establishment and valuurd as fa
as possible as if they had been sold to an indenendent purchase as possible as if they had been sold to an independent purchaser
Goods transferred to wholesale or retail selling organisation for which separate accounts were kept were valued on the sam basis.
To the To the extent that sales of finished products of one establishment
constitute the materials purchased by another, total figures of
the value of sales (and of materials and fuel purchased) include an element of duplication. In some industries, e.g.g. motor vehicle
manufacturing, and woollen and worsted, this duplication it manufacturing, and woollen and worsted, this duplication
substantial: and aggregates for a number of industries conta significant amounts of duplication. For work done on commis sion, sub-contract work, etc., the value shown is the total materials bought and used in such work.

Services rendered
Servicesrendered the amounts charged for hiring out plant, machinery and other goods, providing transport, or for any
technical or other services rendered to other organisations. includes amounts credited for similar services rendered to oth

Standard Industrial Classification
Industry classification is based on the Standard Industri Offe Office together wish a
betical list of industries.

## Stocks and work in progress

Values are given of stocks of goods on hand for sale, and of materials and fuel, at the end of the year of return, including any stocks of goods held for merchanting or factoring. Values of the change during the year are also shown. The
in the case of dutiable goods held out of bond.
The value of work in progress at the end of, and the chang during the year are also usually shown. This excludes any progress payments made to sub-contractors, and
made on account of progress payments received.
Transport payments
hese represent the total amount paid or credited during the year for both outwards transport of finished goods sold and wards transport of materials and fuel purchased. They incluce rganisation of the same establishment not covered by the return, but exclude the value of transport services provided by the business covered by the return. The items included are payments for haulage, canals, coastwise shipping, air, etc. Payments made for sea and air freight on goods sold to customers overseas and on
materials and fuel purchased from overseas suppliers are xcluded.

Wages and salaries
hese are amounts paid during the year to operatives and to
 working proprietors, whether called salaries or not, are excluded. malues shown include all overtime payments, bonuses an commissions, whether paid regularly or not, and no deduction is value of any payments in kind, travelling expenses, lodging lowances, etc. and employers contributions to national insurances and pension schemes is excluded.

Work given out
he figures shown represent the total amount paid for work done yy other establishments (whether part of the same enterprise or
hot) on materials supplied to them. They do not include payments to individual outworkers or payments for business and ther services.
he following symbols are used throughout the report
. . not available
nil or less than half the final digit shown
figures cannot be sis
information about individual enterprises
R revised

Rounding of figures eres final tables have, where ecasary, bet light discrepancy between the sum of the constituent items and the total shown.
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