PA104 (S/D (HA2SI)

1974 & 75



Business Statistics Office

Business Monitor

Report on the Censuses of Production

Petroleum and natural gas

HMSO



A publication of the Government Statistical Service

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 Business Monitor series. These Business Monitors have a code P (for production) followed first by A (indicating that it is an annual series) or Q (quarterly) or M (monthly): and then by a number indicating the minimum list heading, or sub-division of a minimum list heading, of the Standard Industrial Classification (revised 1968).

The Census of Production (PA) reports are available on standing order (details on application to Her Majesty's Stationery Office, P.O. Box 569, London SE1 9NH. Telephone 01-928 6977), although they are not 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 employed in the statistics division 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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PA104

Business Monitor

A publication of the Government Statistical Service

Report on the Censuses of Production 1974 & 75

Petroleum and natural gas

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)

Department of Industry
Business Statistics Office

London: Her Majesty's Stationery Office

Petroleum and natural gas

Milk and milk products

Bread and flour confectionery

Fruit and vegetable products

Vegetable and animal oils and fats

Spirit distilling and compounding

Coke ovens and manufactured fuel

Pharmaceutical chemicals and preparations

Synthetic resins and plastics materials and

Mineral oil refining Lubricating oils and greases

Animal and poultry foods

PA229.2 Starch and miscellaneous foods

Brewing and malting

PA239.2 British wines, cider and perry

Soft drinks

Tobacco

PA271.1 Inorganic chemicals

PA271.3 Miscellaneous chemicals

Toilet preparations

Soap and detergents

PA279.2 Formulated adhesives, gelatine, etc.

PA279.6 Surgical bandages, etc. PA279.7 Photographic chemical materials

Iron and steel (general)

Miscellaneous base metals

synthetic rubber Dyestuffs and pigments

PA279.3 Explosives and fireworks

PA279.4 Formulated pesticides, etc.

Iron castings, etc

Fertilizers PA279.1 Polishes

Steel tubes

PA271.2 Organic chemicals

Paint

PA279.5 Printing ink

Stone and slate quarrying and mining Chalk, clay, sand and gravel extraction

Miscellaneous mining and quarrying

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Cocoa, chocolate and sugar confectionery

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Grain milling

Biscuits

Sugar

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PA366 Electronic computers Radio, radar and electronic capital goods PA368 Electrical appliances primarily for domestic use

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

Exploration for and extraction of petroleum on land and offshore; 'petroleum' in this context includes mineral oil, natural gas and natural gas condensates. The Heading includes the activities of holders of petroleum exploration and production licences. Also included are the activities of licensees' contractors and agents providing services unique to this industry and not allocable to any other Heading in the classification, e.g. well drilling, seismic surveying specifically for petroleum deposits and offshore pipelaying. (The provision of other services, e.g. manufacturing, repairing, catering, transport, procurement or hiring should be included in the appropriate Headings elsewhere in the classification.)

Mining and retorting of oil shale are included under this heading. Also included is the operation of land terminals for stabilisation, separation and storage, and of offshore or land pipelines between well-head and terminal. Other land pipelines are classified to Heading 262 if feeding a refinery, Heading 601 if part of the distribution of gas or Heading 811 if part of the distribution of fuel.

This report relates to Great Britain and the United Kingdom Continental Shelf.

PA104 PETROLEUM AND NATURAL GAS

The tables have been compiled from information provided by the Department of Energy and Employment.

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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	Unit was and	1971	1972	1973	1974	1975
Increase during the year in work in progress and goods on hand for sale	£'000	Lindenen försige Apengabres begilt Kernator Brindlik	piganas propins nos avester de p	n dockrevour of social endigipale sides (social est control conditions)	u in interessionelle Listensionelle edit divigi Januariania III, ini	7,066
Gross output (a)	to notivece site	88,066	124,422	153,459	199,457	296,951
Purchases of materials, goods and						
services for exploration and operating activities (b)	"	9,059	9,009	29,149	182,744	300,605
Royalties, etc., due or payable	"	7,484	10,754	11,753	18,925	23,539
Gross value added	a Malaus an Man	71,523	104,659	112,557	-2,212	-27,193
Total employment (c)	thousands	1.3	1.6	2.2	4.6	5.4
Wages and salaries (d)	£′000	3,925	5,537	6,428	14,000	21,000

⁽a) Includes sales of petroleum and goods produced, exploration and other work done, services rendered, and goods merchanted or factored.

Capital expenditure, 1971-1975 (a)

TABLE 2

The second secon	City of the same	or in the supplier and has	religis excluser our que que 1079	en established of service	ili: Eliserveys volue micer, 1 (870)	1764 PT2 1754 984
		1971	1972	1973	1974	1975
Land and existing building	gs					
Acquisitions		43	262	26	-	_
Disposals		5	31	3	-	100
New building work (b)]		161,000	585,400	1,135,100
Plant and machinery (c)		67,300	113,310	}		
Acquisitions				49,034	131,000	304,000
Disposals		30	66	34		_
Vehicles, ships, mobile dr and specialised floating ed	rilling rigs quipment					
Acquisitions		21	34	26	-	28,000
Disposals		which is the many 2 grids	2	2 10 10 10 10 10 10 10 10 10 10 10 10 10		mengent =
Total net capital e	xpenditure (d)	67,327	113,507	210,047	716,400	1,467,100

⁽a) The figures in this table differ from those published elsewhere for Gross Domestic Fixed Capital Formation of the industry. Imported items are included in capital formation when they arrive in this country. In most cases this happens during the same period as payment is made. However, for items with a lengthy construction period, e.g. off-shore platforms, expenditure may be spread over several years, causing the two series to diverge.

⁽b) Prior to 1974 costs associated with exploration were not included.

⁽c) Average number employed (full and part-time: see table 7).

⁽d) Another important component of labour costs, employers' national insurance contributions, graduated pensions, contributions to other pensions and welfare schemes and the running costs of canteens, is estimated for the industry at £2,000 thousand for 1974 and £3,000 thousand for 1975.

⁽b) Including off-shore production platforms structures, etc., production and appraisal wells, tanked off-shore loading systems, pipelines and terminals. The cost of installing these items is also included.

⁽c) Including platform modules and equipment and their installation.

⁽d) New building work plus acquisitions less disposals of land and existing buildings, plant and machinery, and vehicles, etc.

TABLE 8

Percentage analysis of employees, by full and part-time employment and sex, 1975(a)

Sex	Full-time		Part-time	All employees
mer ster	per cent	ster.	per cent	per cent
Male	85		<u> </u>	85
Female	15		_000 Yavery	15
	100		- 10000	100

Source: Department of Employment

(a) The percentages relate to the numbers employed (excluding working proprietors) in Great Britain at June, 1975.

Sales of principal products of the industry, 1974-1975

Manufacturers' sales of the principal products of the Petroleum and natural gas industry are published regularly in Business Monitor PQ104. Details of sales for 1974 and 1975 will be found in the monitor for the first quarter 1976 issue published September, 1976.

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Quarterly Business Monitors are available from HMSO by annual subscription.

Notes

These notes give the main information needed for interpreting the figures in the industry Business Monitors: more detailed information about the censuses is given in a separate Business Monitor—PA 1001 (Introductory Notes) of the Report on the Censuses of Production, 1974 and 1975.

GENERAL INFORMATION

Changes made for 1974 and 1975

The Censuses for 1974 and 1975 are in line with similar inquiries being conducted in other member countries of the European Economic Communities. From 1974, the Census has been extended to include the construction industry. For 1974, establishments with 300 or more employees were asked to provide additional information relating to industrial and non-industrial services. These include amounts paid:

to other organisations for repairs and maintenance to buildings (including those in respect of rented buildings), road goods vehicles, plant, machinery and other capital equipment

for postage, telephones, telegrams, cables and telex:

to other organisations for transport by road, rail or other means (excluding postal services)

In a separate inquiry for 1974, larger firms in each industry were also asked to provide a breakdown of the figures of total purchases (other than purchases of goods for merchanting or factoring). See paragraph on "Purchases".

Suppression of information relating to individual undertakings The Statistics of Trade Act 1947 provides that—"No individual estimates or returns, and no information relating to an individual undertaking, obtained under the foregoing provisions of this Act, shall, without the previous consent in writing of the person carrying on the undertaking which is the subject of the estimates, returns or information, be disclosed except—

(a) in accordance with directions given by the Minister in charge of the government department in possession of the estimates, returns or information to a government department or to the Import Duties Advisory Committee for the purposes of the exercise by that department or committee of any of their functions; or

(b) for the purposes of any proceedings for an offence under this Act or any report of these proceedings."

If a figure involved disclosure the contributor concerned was sometimes asked to give permission for its publication. In the majority of cases this permission was given but when it was refused and in cases where the contributors were not approached the figure has been suppressed, sometimes by combining it in some way with other figures, but sometimes—as in the regional tables by omitting the figure altogether.

Symbols used

The following 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 enterprises

R revised

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 constituent items may not always agree exactly with the total shown.

Industrial classification

The United Kingdom Standard Industrial Classification (SIC) was first issued in 1948 and was subsequently revised in 1958 and 1968. It exists to promote uniformity and comparability in the official statistics of the United Kingdom. The general principles followed are those of the International Standard Industrial Classification of all Economic Activities of the United Nations Statistical Office but the United Kingdom SIC reflects the organisation and structure of industry and trade as it exists in the United Kingdom. The SIC is a classification by activity and is not a commodity classification. However, an index of all commodity headings for which sales data are provided in the Quarterly Business Monitors, is published as PQ 1000 in the Business Monitor Series.

Statistical units

The statistical unit for the purpose of the Censuses is the establishment which is defined in the SIC as the smallest unit which can provide the information normally required for an economic census, for example, employment, expenses, turnover, capital formation. Usually the principal activities carried on in an establishment fall within a single heading of the classification (e.g. steel making or sugar refining). Typically the establishment embraces all the activities carried on at a single address e.g. a farm, a mine, or a factory, including those which are ancillary to the principal activities. Frequently distinct activities characteristic of different industries are carried on at one address, but normally these are not classified separately and the whole establishment is classified according to the main activity. If, however, the required range of data can be provided for each activity each is taken to constitute a separate establishment. Sometimes activities which are conducted as a single business are carried on at a number of addresses. Where this is so, businesses are asked to provide the full range of separate information in respect of each address, whether or not the activities are different. Their activities may, however, be integrated to such an extent that they constitute a single establishment. In that case the establishment is defined to cover the combined activities at these addresses (termed local units). Separate figures are obtained, however, of employment and net capital expenditure at each unit.

Efforts are made by the Business Statistics Office to ensure, by negotiating with respondents, that the return from an establishment does not cover local units or addresses in more than one of the countries of the United Kingdom.

Further information about the statistical unit appeared in an article "The statistical unit in business inquiries" in Statistical News No. 13 May 1971.

Establishments are asked to exclude from their returns particulars relating to any department not engaged in production e.g. merchanting, transport, warehousing, for which they keep a separate set of accounts. Transfers of goods produced to such departments are treated as sales and respondents are asked to value them as far as possible as if sold to an independent purchaser. Where separate accounts are not kept they are asked to include details of all these activities in their return. Particulars relating to head offices, which were mainly engaged in the administration of the production units within the scope of the censuses were included. Where more than one return was made the information in respect of the head office was apportioned among them.

For certain purposes in the annual censuses of production (especially the enterprise analyses of Business Monitor PA 1002) related establishments are combined. For these purposes an enterprise group is defined as a business consisting of either a single establishment, or of two or more establishments under common ownership or control. The bringing together of establishments into enterprise groups is also necessary for the purpose of ensuring that there will be no disclosure of the activities of any one enterprise group. Information about the relationship of establishments, the changing structure of groups of companies and about common ownership links is obtained from many sources, including the Stock Exchange Year Book, company reports, press reports and information supplied by individual establishments.

THE REGISTER

The register permits a questionnaire to be sent 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 for keeping the register continuously up-to-date and act as a check on its detail and structure. For the establishments on the register which make returns to the quarterly inquiries, the industrial classification is derived from an analysis of their sales of commodities and is reviewed annually. Employment data is entered on the register from returns to the annual censuses of production. In cases where an establishment does not make a return to these inquiries the employment data is based on information provided by the Department of Employment from the annual censuses of employment.

Establishments with 20 or more employees are included in the censuses each year and the information they supply to the census is supplemented by the returns that those of them with

25 or more employees provide to the quarterly inquiries. Information about establishments with less than 20 employees in most industries is less securely based, but increasing use has been made of data on these small establishments supplied by the Department of Employment. One benefit of using this information is an improvement in the estimates of the number of smaller establishments and enterprises, but there is little effect on other aggregates (e.g. employment, output, net capital expenditure).

Coverage

A return was required in the 1974 and 1975 Censuses from each establishment with 20 or more employees. Each establishment is classified to an industry, as defined in the SIC, whose principal products form the major part of the establishment's sales.

TERMS USED IN THE CENSUS REPORT

Average number employed

Establishments were required to state the number of persons on the payroll on average during the year of return, whether full-time or part-time employees. Separate figures were required for:

(a) administrative, technical and clerical employees

(b) all other employees (operatives)

Averages could be calculated from the figures relating to the last week of each calendar month. The figures include persons engaged on merchanting or factoring and canteen workers where particulars in respect of these activities could not be excluded from the return.

Employees

Administrative, technical and clerical employees include directors in receipt of a definite wage, salary or commission, managers, superintendents and works foremen; research, design employees (other than operatives); draughtsmen, editorial staff, advertising staff, travellers and all office employees.

Operatives include all other classes of employees, that is, broadly speaking, all manual wage earners. They include operatives employed in power stations, transport (including, roundsmen), warehouses, stores, shops and canteens, inspectors, maintenance workers and cleaners. Operatives engaged in outside work of erecting, fitting etc. are also included

Capital expenditure

Capital expenditure during the year in respect of manufacturing units where production had not started before the end of the year is included in the figures for 1971 to 1975. Establishments were asked not to deduct from the value of capital expenditure amounts received or expected to be received in grants or allowances from the Government or any statutory body or local authority. From 1973, establishments with 100 or more employees were asked to include a total net capital expenditure figure for each calendar year.

(a) New building work

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

(b) Land and existing buildings

The items shown are the capital cost of freeholds purchased and the capital cost or premium payable for leaseholds acquired (excluding the value of any assets acquired in taking over an existing business), and the amounts receivable for any freeholds or 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 vehicles acquired, both new and second-hand, and the amount received for items disposed of during the year. The value of

plant and machinery acquired 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 and installation. Deductible value added tax is excluded but non-deductible value added tax on motor cars acquired is included. No deduction is made for depreciation, amortization or obsolescence. The proceeds of items disposed of during the year exclude amounts written-off for items scrapped.

Cost of industrial services

Includes amounts payable to other firms for work done on materials supplied by the establishment, 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

Includes rent of industrial buildings and capital equipment, commercial insurance premiums, bank charges and amounts paid for professional services, postal etc. services, transport, advertising etc. Amounts payable on royalties for the right to use patents, trademarks, copyrights etc., manufacturing, mining and quarrying rights and technical "know-how" are also included.

Gross output

In the calculation of gross output the value of total sales and work done is increased by the rise (or reduced by the fall) during the year in the value of work in progress and goods on hand for sale.

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 the fall, during the year of stocks of materials etc.) and the cost of industrial services received, and where applicable, duties etc.

Net output per head

The figures of net output per head are derived by dividing the net output by the average number of persons employed (full and part-time) on all activities covered by the returns, including operatives, administrative, technical and clerical employees.

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 (e.g. rent of buildings and capital equipment, commercial insurance premiums, bank charges and amounts paid for professional services, post office services, transport and advertising), rates (excluding water rates) and the cost of licensing motor vehicles. This estimate of gross value added approaches more closely than census net output to the definition of net output or value added in national accounts statistics.

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 (full and part-time) on all activities covered by the returns, including operatives, administrative, technical and clerical employees.

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 matter; of fuel, electricity and water; of materials to be used by the establishment or given out to other establishments for the production of machinery or other capital items for the establishment's own use; of materials for use by the establishment when working on goods supplied by customers; and of food, etc. for any canteen covered by the establishment's return. Transfers of goods to the establishment from another department of the same firm 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 all purchases of machinery and plant charged to capital account. Purchases of goods for merchanting or factoring have been collected separately since 1973. The values shown exclude VAT. They include, in addition to the actual purchase price, the value 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 drawback, rebate, etc. The cost of transport is included only if it is included with the purchase price in the firm's accounts. Imported goods are included at their full delivered cost. If in the firm's accounts the transport from docks or airport is not included in the cost of goods purchased, the cost is entered at c.i.f. plus duty (if applicable). Leasing, renting and hire purchase charges are excluded.

Sales of goods produced, work done and industrial services

Sales for the purposes of the annual censuses means deliveries on sale of minerals raised and/or goods made by establishments in Great Britain and the United Kingdom Continental Shelf covered by the return. Sales of goods made for these establishments by other establishments from materials given out to them are included, as also are sales of waste products. Any new building work and machinery or other capital items produced by establishments for hiring out or leasing are regarded as sales, the value included in the return being that adopted in the establishment's capital asset accounts. Forward sales and canteen takings are excluded. All sales in the period of the inquiry are included irrespective of when the goods were manufactured. Goods produced in one establishment and transferred either to ancillary departments not engaged in production and 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 possible as if 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.

The value shown for sales is the "net selling value" defined as the amount (excluding value added tax) charged to customers whether on an ex-works or delivered basis, after any trade discounts and agents' commissions have been deducted. The cost of packing materials less allowance for returnable cases is included.

Figures for work done represent the amount charged for work carried out on materials supplied by a customer and include the value of any materials bought and used in such work. Activities within this heading include repair and jobbing work, erection and installation of plant and machinery, exploration work, and research and development.

Industrial services rendered includes repairs and maintenance, installation work, and technical research and studies rendered to other organisations.

Capital goods produced for establishments' own use

This includes all work carried out during the year by the establishments' own staff for their own use, which was of a capital nature.

Non-industrial services rendered

Includes rents received for commercial and industrial buildings, amounts charged for hiring out plant, machinery and other goods and amounts charged to other organisations for the provision of transport. Also includes amounts received for the right to use patents, trademarks, copyrights etc., manufacturing, mining and quarrying rights and technical "know-how"; revenue from such staff facilities as canteens is also included.

Goods merchanted or factored

Merchanted goods are those (excluding canteen sales) sold without having been subjected to any manufacturing process by the seller.

Stocks and work in progress

Values are given of stocks of goods on hand for sale at the end of the year of return and of the change during the year, including any stocks of goods held for merchanting or factoring. Work in progress is defined as materials which have been partially processed by the establishment but which are not usually sold or transferred to another establishment without further processing. The values include the cost of materials consumed and labour used, together with a margin of overhead costs and profits. Progress payments made to subcontractors are excluded and progress payments received from other organisations are not deducted.

Wages and salaries

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

Employers' insurance and welfare contributions

This item includes employers' contributions to national insurance and graduated pensions (and/or earnings related basic contributions under the Social Security Act, 1973) as well as commercial insurance premiums to provide pensions, superannuation or other retirement benefits, sickness benefits, personal accident benefits, disability or death benefits for employees or former employees or their dependents. Contributions to the running costs of canteens, social centres, children's holiday homes, etc. for employees, former employees and their dependants are also included.

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