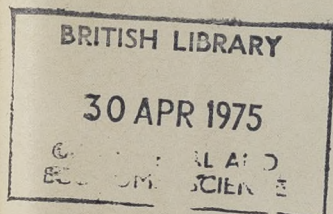


PA601

TATISTICS
BACK-UP

42 (HA 251)

1972



Business Monitor

A publication of the Government Statistical Service

Report on the Census of Production

Gas



HMSO

Department of Industry
Business Statistics Office

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 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.

Enquiries:

Business Statistics Office
Cardiff Road
Newport, Gwent
NPT 1XG
Newport 56111 (STD code 0633) ext 2455
Telex 497121/497122
Answer Back BSO Newport

PA601

Business Monitor

A publication of the Government Statistical Service

**Report on the
Census of Production
1972**

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 1975

List of Industry Reports, etc.

PA1001	Introductory notes	PA370	Shipbuilding and marine engineering
PA101	Coal mining	PA380	Wheeled tractor manufacturing
PA102	Stone and slate quarrying and mining	PA381	Motor vehicle manufacturing
PA103	Chalk, clay, sand and gravel extraction		Trailers, caravans and freight containers
PA104	Petroleum and natural gas	PA382	Motor cycle, tri-cycle and pedal cycle manufacturing
PA109	Miscellaneous mining and quarrying		Aerospace equipment, manufacturing and repairing
PA211	Grain milling	PA383	Locomotives, railway track equipment, railway carriages, wagons and trams
PA212	Bread and flour confectionery	PA384	Engineers' small tools and gauges
PA213	Biscuits	PA390	Hand tools and implements
PA214	Bacon curing, meat and fish products	PA391	Cutlery, spoons, forks and plated tableware, etc.
PA215	Milk and milk products	PA392	Bolts, nuts, screws, rivets, etc.
PA216	Sugar	PA393	Wire and wire manufactures
PA217	Cocoa, chocolate and sugar confectionery	PA394	Cans and metal boxes
PA218	Fruit and vegetable products	PA395	Jewellery and precious metals
PA219	Animal and poultry foods	PA396	Metal furniture
PA221	Vegetable and animal oils and fats	PA399.1	Drop forgings, etc.
PA229.1	Margarine	PA399.5	Metal hollow-ware
PA229.2	Starch and miscellaneous foods	PA399.6	Miscellaneous metal manufacture
PA231	Brewing and malting	PA399.8	Production of man-made fibres
PA232	Soft drinks	PA411	Spinning and doubling on the cotton and flax systems
PA239.1	Spirit distilling and compounding	PA412	Weaving of cotton, linen and man-made fibres
PA239.2	British wines, cider and perry	PA413	Woollen and worsted
PA240	Tobacco	PA414	Jute
PA261	Coke ovens and manufactured fuel	PA415	Rope, twine and net
PA262	Mineral oil refining	PA416	Hosiery and other knitted goods
PA263	Lubricating oils and greases	PA417	Warp knitting
PA271.1	Inorganic chemicals	PA418	Lace
PA271.2	Organic chemicals	PA419	Carpets
PA271.3	Miscellaneous chemicals	PA421	Narrow fabrics
PA272	Pharmaceutical chemicals and preparations	PA422.1	Household textiles and handkerchiefs
PA273	Toilet preparations	PA422.2	Canvas goods and sacks and other made-up textiles
PA274	Paint	PA423	Textile finishing
PA275	Soap and detergents	PA429.1	Asbestos
PA276	Synthetic resins and plastics materials and synthetic rubber	PA429.2	Miscellaneous textiles
PA277	Dyestuffs and pigments	PA431	Leather (tanning and dressing) and fellmongery
PA278	Fertilizers	PA432	Leather goods
PA279.1	Polishes	PA433	Fur
PA279.2	Formulated adhesives, gelatine, etc.	PA441	Weatherproof outerwear
PA279.3	Explosives and fireworks	PA442	Men's and boys' tailored outerwear
PA279.4	Formulated pesticides, etc.	PA443	Women's and girls' tailored outerwear
PA279.5	Printing ink	PA444	Overalls and men's shirts, underwear, etc.
PA279.6	Surgical bandages, etc.	PA445	Dresses, lingerie, infants' wear, etc.
PA279.7	Photographic chemical materials	PA446	Hats, caps and millinery
PA311	Iron and steel (general)	PA449.1	Corsets and miscellaneous dress industries
PA312	Steel tubes	PA449.2	Gloves
PA313	Iron castings, etc.	PA450	Footwear
PA321	Aluminium and aluminium alloys	PA461.1	Refractory goods
PA322	Copper, brass and other copper alloys	PA461.2	Building bricks and non-refractory goods
PA323	Miscellaneous base metals	PA462	Pottery
PA331	Agricultural machinery (except tractors)	PA463	Glass
PA332	Metal-working machine tools	PA464	Cement
PA333	Pumps, valves and compressors	PA469.1	Abrasives
PA334	Industrial engines	PA469.2	Miscellaneous building materials and mineral products
PA335	Textile machinery and accessories	PA471	Timber
PA336	Construction and earth-moving equipment	PA472	Furniture and upholstery
PA337	Mechanical handling equipment	PA473	Bedding, etc.
PA338	Office machinery	PA474	Shop and office fittings
PA339.1	Mining machinery	PA475	Wooden containers and baskets
PA339.2	Printing, book binding and paper goods machinery	PA479	Miscellaneous wood and cork manufactures
PA339.3	Refrigerating machinery, space heating, ventilating and air-conditioning equipment	PA481	Paper and board
PA339.7	Food and drink processing machinery and packaging and bottling machinery	PA482.1	Cardboard boxes, cartons and fibre-board packing cases
PA339.9	Miscellaneous (non-electrical) machinery Scales and weighing machinery and portable power tools	PA482.2	Packaging products of paper and associated materials
PA341	Industrial (including process) plant and steelwork Process plant engineering contractors	PA483	Manufactured stationery
PA342	Ordnance and small arms	PA484.1	Wallcovering
PA349.1	Ball and roller bearings	PA484.2	Miscellaneous manufactures of paper and board
PA349.2	Precision chains and other mechanical engineering	PA485	Printing and publishing of newspapers and periodicals
PA351	Photographic and document copying equipment	PA489	General printing, publishing, etc.
PA352	Watches and clocks	PA491	Rubber
PA353	Surgical instruments and appliances	PA492	Linoleum, plastics floor-covering, leathercloth, etc.
PA354	Scientific and industrial instruments and systems	PA493	Brushes and brooms
PA361	Electrical machinery	PA494.1	Toys, games and children's carriages
PA362	Insulated wires and cables	PA494.3	Sports equipment
PA363	Telegraph and telephone apparatus and equipment	PA495	Miscellaneous stationers' goods
PA364	Radio and electronic components	PA496	Plastics products
PA365	Gramophone records and tape recordings Broadcast receiving and sound reproducing equipment	PA499.1	Musical instruments
PA366	Electronic computers	PA499.2	Miscellaneous manufacturing industries
PA367	Radio, radar and electronic capital goods	PA601	Gas
PA368	Electrical appliances primarily for domestic use	PA602	Electricity
PA369	Electrical equipment for motor vehicles, cycles and aircraft Primary and secondary batteries Electric lamps, electric light fittings, wiring accessories, etc.	PA603	Water supply
		PA1002	Summary tables

The information in this report relates to undertakings classified to the Gas industry, minimum list heading 601 in the Standard Industrial Classification (revised 1968). The activities of the industry include:-

The production and distribution of gas for public supply. Construction work carried out by employees of gas undertakings is included. Gas showrooms are also included. Undertakings (other than transport undertakings) producing gas primarily for their own use are excluded and are included in the industries covering the major output of the parent works.

This report covers all undertakings of the twelve Area Gas Boards covering Great Britain, together with the Gas Council and the gas undertakings in Northern Ireland.

The tables have been compiled from returns made to the Department of Energy. The figures for 1970 relate to the year ended 31 March 1971, those for 1971 to the year ended 31 March 1972 and those for 1972 to the year ended 31 March 1973.

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

LIST OF CONTENTS

Table No	Title	Page
	United Kingdom establishments classified to the industry	
1	Input and output, 1970, 1971 and 1972	PA601 2
2	Capital expenditure and stocks, 1970, 1971 and 1972	PA601 3
3	Analysis of undertakings by size, 1972	DOES NOT APPLY 3
4	Regional distribution of employment, net capital expenditure and net output, 1972	PA601 4
5	Percentage analysis of twelve-month periods covered by returns received, 1972	DOES NOT APPLY 4
6	Percentage analysis of employees, by full and part time employment and sex, 1972	PA601 4
7	Sales of principal products of the industry by undertakings, 1972	DOES NOT APPLY 4

TABLE 1

PA601 2

Input and output, 1970, 1971 and 1972
All United Kingdom undertakings classified to the industry

	Unit	1970	1971	1972
Gas, etc. sold and work done (a)	£'000	669,360	757,249	872,266
Services rendered to other organisations (b)	"	1,204	2,123	3,000
Goods merchanted or factored	"	67,079	73,081	75,134
Canteen takings	"	738	784	835
Total sales and work done	"	738,381	833,237	951,235
Increase during year, goods on hand for sale (c)	"	- 506	- 4,297	2,884
Gross output	"	737,875	828,940	954,119
Cost of materials and fuel used and of merchanted goods	"	269,224	296,334	335,159
Payments to other organisations				
for work done on materials given out	"	92,621	93,387	87,021
for transport by road (d)	"	1,158	561	570
for transport by rail, water, air and Post Office parcel services (d)	"	103	59	40
Total costs	"	363,106	390,341	422,790
Net output	"	374,769	438,599	531,329
Net output per head	£	3,161	3,774	4,866
Total employment (e)	number	118,546	116,208	109,196
Operatives	"	57,753	53,153	48,747
Others (f)	"	60,793	63,055	60,449
Wages and salaries				
Operatives	£'000	75,638	80,198	87,143
Others (f)	"	88,481	104,770	130,329
Wages and salaries per head				
Operatives	£	1,310	1,509	1,788
Others (f)	£	1,456	1,663	2,156

- (a) Including sales of gas and other products, charges for work done, meter rents received and work of new construction.
- (b) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for any other technical or other services rendered.
- (c) Including stocks of appliances for England, Scotland and Wales.
- (d) Payments for transport inwards are included in the cost of purchased materials and fuel used and excluded from payments for transport to other organisations. They amounted to £2,523,000 in 1970, £1,151,000 in 1971 and £900,000 in 1972.
- (e) Average number employed (full and part-time; see table 6) during the year.
- (f) Administrative, technical and clerical employees.

TABLE 2

PA601 3

Capital expenditure and stocks, 1970, 1971 and 1972
All United Kingdom undertakings classified to the industry

	£'000			
	1970	1971	1972	
Capital expenditure (a)				
New building work	7,377	6,319	5,984	
Land and existing buildings				
Acquisitions	4,507	1,827	784	
Disposals	2,684	4,722	3,159	
Plant and machinery				
Acquisitions (b)	77,963	76,273	44,080	
Disposals	3,347	2,009	2,503	
Mains and services				
Acquisitions	125,660	81,943	65,707	
Disposals	2,119	-	2,644	
Vehicles and mobile plants (including ships and barges)				
Acquisitions	3,246	3,983	3,544	
Disposals	1,090	505	2,496	
Total net capital expenditure (c)	209,513	163,109	109,297	
Increase in stocks 1970, 1971 and 1972 and value of stocks at end of 1972 (d)	Increase	Increase	Increase	Value at end of year
Materials, stores and fuel	139	- 7,495	- 1,002	63,938
Goods on hand for sale (d)	- 506	- 4,297	2,884	14,491
Total	- 367	- 11,792	1,882	78,429

- (a) Capital expenditure in respect of manufacturing undertakings where production had not commenced before the end of the year, is included.
- (b) Including appliances for hire and meters.
- (c) Acquisitions less disposals.
- (d) Including stocks of appliances for England, Scotland and Wales.

TABLE 3

Analysis of undertakings by size, 1972
All United Kingdom undertakings classified to the industry

This table is not applicable to the industry

TABLE 4

PA601 4

Regional distribution of employment, net capital expenditure and net output, by country, 1972
All United Kingdom undertakings classified to the industry

Country	Average number employed		Net capital expenditure (a)		Net output	
	Number	per cent of United Kingdom	£'000	per cent of United Kingdom	£'000	per cent of United Kingdom
England	95,966	87.9	95,024	86.9	480,588	90.4
Wales	4,286	3.9	5,084	4.7	12,003	2.3
Scotland	7,596	7.0	8,329	7.6	33,890	6.4
Great Britain	107,848	98.8	108,437	99.2	526,481	99.1
Northern Ireland	1,348	1.2	860	0.8	4,848	0.9
United Kingdom	109,196	100.0	109,297	100.0	531,329	100.0

(a) New building work plus acquisitions less disposals of land and existing buildings, plant and machinery and vehicles: including capital expenditure at undertakings not yet in production.

TABLE 5

Percentage analysis of twelve-month periods covered by returns received, 1972

This table is not applicable to the industry

TABLE 6

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

Sex	Full time	Part time	All employees
	per cent	per cent	per cent
Male	79	1	80
Female	16	4	20
	95	5	100

Source: Department of Employment

(a) The percentages relate to the numbers employed (excluding working proprietors) in the United Kingdom at mid-June, 1972

TABLE 7

Sales of principal products of the industry by undertakings, 1972

Does not apply

For this industry, the quarterly inquiry into manufacturers' sales did not commence until the second quarter of 1974.

Produced in Wales by Her Majesty's Stationery Office
Reprographic Unit, Cardiff
Dd.506616 K9 Cdf 947 2/75

Notes

These notes give the main information needed for interpreting the figures in the industry reports, (more detailed information about 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

Changes made for 1972

There 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 footnotes to the tables.

Industrial classification

The Annual Censuses of Production are conducted on the Business Statistics Office's Production Register. Normally establishments/undertakings 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/undertaking is classified to an industry if its sales of the principal products of that industry accounts for a greater proportion of its total sales than its sales of the principal products of any other industry; classification is generally based on an establishment's/undertaking's returns to the quarterly production inquiry. Where this is not possible - for example where a quarterly production inquiry has not been introduced - the classification of an establishment/undertaking reflects its return to the Census of Production, 1968. Establishments/undertakings 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 establishment/undertaking to the Business Statistics Office, for instance, in the course of registration.

Coverage

Detailed census returns were generally sought only from establishments/undertakings employing on average 25 or more persons, but in some industries where firms employing less than 25 persons account for a relatively high proportion of total employment and output the exemption limit was lowered to 11. Census returns were also sent to establishments/undertakings whose employment was not known to the Business Statistics Office at the time of dispatch.

TERMS USED IN THE CENSUS REPORT

Average number employed

Undertakings were required to state the number of persons on the payroll (i.e. whose national insurance cards were held by them) on the average during the year of return, whether full-time 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 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 managing and other directors in receipt of a definite wage, salary or commission, managers, superintendents and works foremen; research, experimental development, technical and design employees (other than operatives); draughtsmen and tracers; editorial staff, staff reporters; canvassers, competition and advertising staff; travellers, and office (including works office) employees. Operatives include all other classes of employees, that is, broadly speaking, all manual wage earners. They include those employed in and about the factory or works; operatives employed in power houses, transport work (including roundsmen), stores, warehouses, shops and canteens; inspectors, viewers and similar workers; 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 1970, 1971 and 1972. Undertakings 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 Industrial Development Act, 1966 or regional development grants under the Industry Act, 1972.

(a) New building work

This represents the cost incurred during the year of new building and other construction work (including office buildings, canteens and the like used in connection with the business covered by the return, but not dwelling houses for employees). The value is that charged to capital account during the year of return; it includes expenditure on new buildings or on the extension or reconstruction of old buildings, the value of works of a capital nature carried out by the undertaking'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 of 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 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. 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.

Gross output

Gross output measures the total value of production (including work done) by undertakings during the year. It is calculated as follows:-

Value of sales and work done
Plus/Less: Increase/decrease in value of stocks of goods on hand for sale
Plus/Less: Increase/decrease in value of work in progress
= Gross output.

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 is calculated as follows:-

Gross output
Less: Purchases adjust for change in value of stocks of fuel and raw materials
Less: Payments for work given to other establishments
Less: Payments for transport
= Net output.

Net output per person employed

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 activities covered by the returns, including operatives, administrative, technical and clerical employees.

(iii)

Purchases

Purchases include the cost of materials and components bought for 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 undertaking's own buildings, plants and vehicles when carried out by their own work people included in the returns; of consumable tools; and of parts for machinery purchased during the year as replacements. 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 excluded, as are all purchases charged to capital account. The value 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 undertaking's own separate transport organisations for delivery of materials 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, but at their full delivery cost if invoiced 'carriage paid home'. Materials and fuel transferred from another department of the undertaking not covered by the return are included at the estimated selling value recorded by the other department.

Sales

Sales are in respect of goods made by the business covered by the return or by other undertakings 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 business covered by the return are included, the value being that adopted in the undertaking's asset accounts. Goods sold without being subjected to any manufacturing process (i.e. merchanting or factored) and canteen takings are included. 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' commissions, 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 at the f.o.b. value.

Goods produced in one undertaking and transferred to another undertaking of the firm not covered by the return were treated as sales by the producing undertaking 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 were kept were valued on the same basis.

To the extent that sales of finished products of one undertaking 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. motor vehicle manufacturing, and woollen and worsted, this duplication is substantial; and aggregates for a number of industries contain significant amounts of duplication. For work done on commission, sub-contract work, etc., the value shown is the total amount charged for the work, including the value of any materials bought and used in such work.

Services rendered

This represents the amounts charged for hiring out plant, machinery and other goods, providing transport,

or for any technical or other services rendered to other organisations.

Standard Industrial Classification

Industry classification is based on the Standard Industrial Classification (revised 1968). It is published by HM Stationery Office together with a separate index in the form of an alphabetical 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 values include duty in the case of dutiable goods held out of bond.

The value of work in progress at the end of, and the change during, the year are also usually shown. This excludes any progress payments made to sub-contractors, and no deduction is made on account of progress payments received.

Transport payments

These represent the total amount paid or credited during the year for both outwards transport of finished goods sold and inwards transport of materials and fuel purchased. They include payment to other undertakings, and to any separate transport organisation of the same undertaking 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 hired cartage and for inwards and outwards carriage by all forms of inland transport, i.e. railways, road 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 excluded.

Wages and salaries

These are amounts paid during the year to operatives and to administrative, technical and clerical employees. 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 any payments in kind, travelling expenses, lodging allowances, etc. and employers' contributions to national insurances and pension schemes is excluded.

Work given out

The figures shown represent the total amount paid for work done by other undertakings on materials supplied to them. They do not include payments for business and other services.

SYMBOLS USED

The following symbols are used throughout the report:

- .. not available
- nil or less than half the final digit shown
- R revised

ROUNDING OF FIGURES

Figures in the tables have, where necessary, been rounded to the nearest final digit: there may be an apparent slight discrepancy between the sum of the constituent items and the total shown.

© Crown copyright 1975

Her Majesty's Stationery Office

Government Bookshops

49 High Holborn, London WC1V 6HB

13a Castle Street, Edinburgh EH2 3AR

41 The Hayes, Cardiff CF1 1JW

Brazenose Street, Manchester M60 8AS

Southey House, Wine Street, Bristol BS1 2BQ

258 Broad Street, Birmingham B1 2HE

80 Chichester Street, Belfast BT1 4JY

*Government publications are also available
through booksellers*