

Business Statistics Office

Business Monitor

Report on the Census of Production

Gas

PA601

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PA601

Business Monitor

A publication of the Government Statistical Service

Report on the Census of Production 1979

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

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List of Industry Reports, etc.

PA1001	Introductory notes	PA369.1	Electrical equipment for motor vehicles, cycles and aircraft
PA101	Coal mining	PA369.2	Primary and secondary batteries
PA102	Stone and slate quarrying and mining	PA369.4	Electric lamps, electric light fittings, wiring accessories, etc.
PA103	Chalk, clay, sand and gravel extraction	PA370	Shipbuilding and marine engineering
PA104	Petroleum and natural gas	PA380	Wheeled tractor manufacturing
PA109	Miscellaneous mining and quarrying	PA381.1	Motor vehicle manufacturing
PA211	Grain milling	PA381.2	Trailers, caravans and freight containers
PA212	Bread and flour confectionery	PA382	Motor cycle, tricycle and pedal cycle manufacturing
PA213	Biscuits	PA383	Aerospace equipment manufacturing and repairing
PA214	Bacon curing, meat and fish products	PA384	Locomotives, railway track equipment, railway carriages, wagons and trams
PA215	Milk and milk products	PA390	Engineers' small tools and gauges
PA216	Sugar	PA391	Hand tools and implements
PA217	Cocoa, chocolate and sugar confectionery	PA392	Cutlery, spoons, forks and plated tableware, etc.
PA218	Fruit and vegetable products	PA393	Bolts, nuts, screws, rivets, etc.
PA219	Animal and poultry foods	PA394	Wire and wire manufactures
PA221	Vegetable and animal oils and fats	PA395	Cans and metal boxes
PA229.1	Margarine	PA396	Jewellery and precious metals
PA229.2	Starch and miscellaneous foods	PA399.1	Metal furniture
PA231	Brewing and malting	PA399.5	Drop forgings, etc.
PA232	Soft drinks	PA399.6	Metal hollow ware
PA239.1	Spirit distilling and compounding	PA399.8	Miscellaneous metal manufacture
PA239.2	British wines, cider and perry	PA411	Production of man-made fibres
PA240	Tobacco	PA412	Spinning and doubling on the cotton and flax systems
PA261	Coke ovens and manufactured fuel	PA413	Weaving of cotton, linen and man-made fibres
PA262	Mineral oil refining	PA414	Woollen and worsted
PA263	Lubricating oils and greases	PA415	Jute
PA271.1	Inorganic chemicals	PA416	Rope, twine and net
PA271.2	Organic chemicals	PA417.1	Hosiery and other knitted goods
PA271.3	Miscellaneous chemicals	PA417.2	Warp knitting
PA272	Pharmaceutical chemicals and preparations	PA418	Lace
PA273	Toilet preparations	PA419	Carpets
PA274	Paint	PA421	Narrow fabrics
PA275	Soap and detergents	PA422.1	Household textiles and handkerchiefs
PA276	Synthetic resins and plastics materials and synthetic rubber	PA422.2	Canvas goods and sacks and other made-up textiles
PA277	Dyestuffs and pigments	PA423	Textile finishing
PA278	Fertilizers	PA429.1	Asbestos
PA279.1	Polishes	PA429.2	Miscellaneous textile industries
PA279.2	Formulated adhesives, gelatine, etc.	PA431	Leather (tanning and dressing) and fellmongery
PA279.3	Explosives and fireworks	PA432	Leather goods
PA279.4	Formulated pesticides, etc.	PA433	Fur
PA279.5	Printing ink	PA441	Weatherproof outerwear
PA279.6	Surgical bandages, etc.	PA442	Men's and boys' tailored outerwear
PA279.7	Photographic chemical materials	PA443	Women's and girls' tailored outerwear
PA311	Iron and steel (general)	PA444	Overalls and men's shirts, underwear, etc.
PA312	Steel tubes	PA445	Dresses, lingerie, infants' wear, etc.
PA313	Iron castings, etc.	PA446	Hats, caps and millinery
PA321	Aluminium and aluminium alloys	PA449.1	Corsets and miscellaneous dress industries
PA322	Copper, brass and other copper alloys	PA449.2	Gloves
PA323	Miscellaneous base metals	PA450	Footwear
PA331	Agricultural machinery (except tractors)	PA461.1	Refractory goods
PA332	Metal-working machine tools	PA461.2	Building bricks and non-refractory goods
PA333.1	Pumps	PA462	Pottery
PA333.2	Valves	PA463	Glass
PA333.3	Compressors and fluid power equipment	PA464	Cement
PA334	Industrial engines	PA469.1	Abrasives
PA335	Textile machinery and accessories	PA469.2	Miscellaneous building materials and mineral products
PA336	Construction and earth-moving equipment	PA471	Timber
PA337	Mechanical handling equipment	PA472	Furniture and upholstery
PA338	Office machinery	PA473	Bedding, etc.
PA339.1	Mining machinery	PA474	Shop and office fitting
PA339.2	Printing, bookbinding and paper goods machinery	PA475	Wooden containers and baskets
PA339.3	Refrigerating machinery, space-heating, ventilating and air-conditioning equipment	PA479	Miscellaneous wood and cork manufactures
PA339.5	Scales and weighing machinery and portable power tools	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	PA482.2	Packaging products of paper and associated materials
PA341	Industrial (including process) plant and steelwork	PA483	Manufactured stationery
PA342	Ordnance and small arms	PA484.1	Wallcoverings
PA349.1	Ball, roller, plain and other bearings	PA484.2	Miscellaneous manufactures of paper and board
PA349.2	Precision chains and other mechanical engineering	PA485	Printing, publishing of newspapers and periodicals
PA351	Photographic and document copying equipment	PA489	General printing and publishing
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
PA365.1	Gramophone records and tape recordings	PA499.1	Musical instruments
PA365.2	Broadcast receiving and sound reproducing equipment	PA499.2	Miscellaneous manufacturing industries
PA366	Electronic computers	PA500	Construction
PA367	Radio, radar and electronic capital goods	PA601	Gas
PA368	Electrical appliances primarily for domestic use	PA602	Electricity
		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 not 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 British Gas Corporation and the gas undertakings in Northern Ireland.

The figures for each census year relate to a business year ending on 31 March in the following year e.g. figures for 1979 relate to the year ending March 1980.

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
1	Output and costs, 1975-1979	2-3
2	Capital expenditure, 1975-1979	4
3	Stocks and work in progress, 1975-1979	4
4	Analysis of establishments by size, 1979	Does not apply
5	Distribution of employment, net capital expenditure, net output and gross value added at factor cost, by country, 1979.	5
6	Percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments, 1979	Does not apply
7	Percentage analysis of employees, by full and part-time employment and sex, 1977	5
8	Operating ratios, 1978-1979	6

TABLE 1

PA601

Output and costs, 1975-1979
All United Kingdom undertakings classified to the industry

	Unit	1975	1976	1977	1978	1979
Gas etc. sold (a)	£ thousand	1,468,697(b)	1,714,125	2,236,172	2,566,238	2,998,303
Receipts for work done and industrial services rendered	"	(b)	647	694	742	941
Capital goods produced for establishments' own use	"	16,281	9,968	8,525	10,115	13,061
Non-industrial services rendered	"	16,172	20,086	10,128	7,129	11,093
Goods merchanted or factored (c)	"	106,199	340	365	380	386
Total sales and work done (d)	"	1,607,349	1,745,166	2,255,884	2,584,604	3,023,784
Increase during the year, work in progress and goods on hand for sale (e)	"	5,698	-13	-14	-13	56
Gross output	"	1,613,047	1,745,153	2,255,870	2,584,591	3,023,840
Purchases of materials for use in production, and packaging and fuel	"	436,108	462,525	677,877	962,846	1,175,697
Purchases of goods for merchenting or factoring	"	72,092	133	143	160	188
Increase during the year, stocks of materials, stores and fuel	"	15,873	9,776	-14,377	-14,824	7,620
Cost of industrial services received	"	138,123	133,958	183,883	250,295	275,820
Net output	"	982,597	1,158,313	1,379,590	1,356,466	1,579,755
Net output per head	£	9,426	11,789	14,256	14,118	15,536
Payments for non-industrial services						
Hire of vehicles, plant and machinery	£ thousand	9,892(f)	12,043	17,927	25,965	34,172
Rents of industrial and commercial buildings	"	(f)	4,977	6,495	6,609	7,208
Commercial insurance premiums	"	1,622	3,447	2,245	1,567	1,855
Bank charges	"	1,419	1,512	2,168	2,478	3,703
Other non-industrial services (g)	"	45,227	54,257	68,054	80,410	92,917
Licensing of motor vehicles	"	1,417	1,390	1,793	2,111	2,259
Rates, excluding water rates	"	31,192	52,296	59,520	64,791	73,975
Gross value added at factor cost	"	891,828	1,028,391	1,221,388	1,172,535	1,363,666
Gross value added at factor cost per head	£	8,555	10,467	12,621	12,204	13,411
Total employment (h)(j)	Number	104,245	98,254	96,774	96,078	101,685
Operatives	"	42,150	41,093	40,950	41,672	43,271
Others (k)	"	62,095	57,161	55,824	54,406	58,414
Wages and salaries (l)						
Operatives	£ thousand	133,514	139,795	152,971	180,325	222,905
Others	"	195,150	207,055	232,778	261,860	341,356
Wages and salaries per head						
Operatives	£	3,168	3,402	3,736	4,327	5,151
Others	"	3,143	3,622	4,170	4,813	5,844

FOOTNOTES TO TABLE 1

PA601

- (a) Including sales of gas and other products, charges for work done, meter rents received and work of new construction.
- (b) Receipts for work done and industrial services rendered included in gas etc. sold.
- (c) 1976-1979 figures do not include goods handled through showrooms. Consequently, this has affected the gross output, net output, net output per head, gross value added at factor cost and gross value added at factor cost per head values for those years.
- (d) Details of undertakings sales of principal products are published regularly in Business Monitor PQ601.
- (e) Including stocks of appliances for England, Scotland and Wales. For 1976-1979 the values of work in progress and stocks of appliances were not recorded.
- (f) Rents of industrial and commercial buildings (not recorded separately) included in hire of vehicles, plant and machinery.
- (g) For 1975-1978 transport of goods by road (within the United Kingdom) was not recorded separately. For 1979 the amount payable was £2,406 thousand.
- (h) Average number employed during the year including full and part-time employees (see table 7).
- (j) 1976-1979 figures exclude showroom employees.
- (k) Administrative, technical and clerical employees.
- (l) Another component of labour costs; employers' national insurance contributions, graduated pensions, contributions to other pensions and welfare schemes and the running cost of canteens, is estimated for the industry at £160,337 thousand for 1979.

TABLE 2

PA601

Capital expenditure, 1975-1979 (a)
All United Kingdom undertakings classified to the industry

	£ thousand				
	1975	1976	1977	1978	1979
Land and buildings					
New building work	3,005	10,406	6,172	12,624	25,400
Land and existing buildings					
Acquisitions	11,047	—	1,568	18,800	2,400
Disposals	3,475	3,771	3,400	6,053	6,004
Vehicles					
Acquisitions	6,030	1,462	4,605	19,263	17,733
Disposals	506	941	2,009	984	1,526
Plant and machinery					
Acquisitions (b)	124,875	92,241	64,539	75,531	91,538
Disposals	922	1,246	1,379	853	442
Mains and services					
Acquisitions	230,131	138,017	120,989	197,379	264,010
Disposals	190	63	501	129	79
Total net capital expenditure	369,995	236,105	190,584	315,581	393,030

(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.

TABLE 3

Stocks and work in progress, 1975-1979
All United Kingdom undertakings classified to the industry

	£ thousand					
	1975	1976	1977	1978	1979	
			Increase		Value at end of year	
Materials, stores and fuel	15,873	9,776	-14,377	-14,824	7,620	69,857
Work in progress	4,274	(a)	(a)	(a)	(a)	(a)
Goods on hand for sale (b)	1,424	-13	-14	-13	56	161
Total	21,571	9,763	-14,391	-14,837	7,676	70,018

(a) The value of work in progress was not recorded for 1976-1979.

(b) 1975 figures include stocks of appliances for England, Scotland and Wales.

TABLE 5

PA601

Distribution of employment, net capital expenditure, net output and gross value added at factor cost, by country, 1979.
All United Kingdom undertakings classified to the industry.

Country	Average number employed		Net capital expenditure (a)		Net output		Gross value added at factor cost	
	Number	per cent of United Kingdom	£ thousand	per cent of United Kingdom	£ thousand	per cent of United Kingdom	£ thousand	per cent of United Kingdom
England	89,342	87.9	289,613	73.7	1,477,239	93.5	1,284,182	94.2
Wales	4,633	4.6	29,633	7.5	49,324	3.1	39,996	2.9
Scotland	6,623	6.5	73,300	18.6	43,856	2.8	30,867	2.3
Great Britain	100,598	98.9	392,546	99.9	1,570,419	99.4	1,355,045	99.4
Northern Ireland	1,087	1.1	484	0.1	9,336	0.6	8,621	0.6
United Kingdom	101,685	100.0	393,030	100.0	1,579,755	100.0	1,363,666	100.0

(a) New building work plus acquisitions less disposals of land and existing buildings, plant and machinery, vehicles and mains and services.

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	75	—	75
Female	19	6	25

Source: Department of Employment

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

TABLE 8

PA601

Operating ratios, 1978-1979
All United Kingdom undertakings classified to the industry

	Unit	1978	1979
Gross output per head	£	26,901	29,737
Net output per head	£	14,118	15,536
Gross value added per head	£	12,204	13,411
Gross value added as a percentage of gross output	%	45	45
Ratio of gross output to stocks (a)		41.5	43.2
Wages and salaries as a percentage of gross value added	%	38	41
Ratio of operatives to administrative, technical and clerical employees		0.8	0.7
Wages and salaries per administrative, technical and clerical employee	£	4,813	5,844
Wages and salaries per operative	£	4,327	5,151
Net capital expenditure per head	£	3,285	3,865
Net capital expenditure as a percentage of gross value added	%	27	29

(a) 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 needed for interpreting the figures in the Industry Business Monitors: more detailed information about the census is given in a separate Business Monitor - PA1001 (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 inquiries being conducted in other member countries of the European Community.

The census differed from the 1978 census in three respects. A question on the leasing of capital assets was removed from the form and a question on road transport costs was added. The sample of units in the 10 to 19 employment size band, included for the 1978 census was not repeated.

Suppression of information relating to individual undertakings

Section 9(5)(b) of the Statistics of Trade Act 1947 states - "The following provisions shall have effect with respect to any report, summary or other communication to the public of information obtained under the foregoing provisions of this Act - in compiling any such report, summary or communication the competent authority shall so arrange it as to prevent any particulars published therein from being identified as being particulars relating to any individual person or undertaking except with the previous consent in writing of that person or the person carrying on that undertaking, as the case may be; but this provision shall not prevent the disclosure of the total quantity or value of any articles produced, sold or delivered; so, however, that before disclosing any such total the competent authority shall have regard to any representations made to them by any person who alleges that the disclosure thereof would enable particulars relating to him or to an undertaking carried on by him to be deduced from the total disclosed."

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

Symbols used

The 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 undertakings
- 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, 1968 and 1980. It exists to promote uniformity and comparability in the official statistics of the United Kingdom. Prior to the 1980 revision the general principles followed were those of the International Standard Industrial Classification of all Economic Activities of the United Nations Statistical Office but the United Kingdom SIC has reflected the

organisation and structure of industry and trade as it existed in the United Kingdom. For the 1980 revision an attempt was made to align the United Kingdom classification as closely as practicable with NACE, the classification in use by the Statistical Office of the European Community. The SIC is a classification by activity and is not a commodity classification. An index based on the 1968 SIC for all commodity headings for which sales data are provided in the quarterly Business Monitors is published in Business Monitor PO 1000.

THE REGISTER

The register permits a questionnaire to be sent direct to the reporting establishment/undertaking 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/undertakings on the register making returns to the quarterly inquiries, the industrial classification is derived from an analysis of their sales of commodities and is reviewed annually. Employment data are entered on the register from returns to the annual census of production. In cases where an establishment/undertaking does not make a return to these inquiries the employment data are based on information provided by the Department of Employment from the annual censuses of employment. New additions to the register are obtained from various sources including the Department of Employment and HM Customs and Excise. The 1973 Finance Act allows the latter to pass lists of businesses registered for VAT to the Business Statistics Office (BSO). Where necessary details are sought directly from new businesses. Units which cease to trade are removed from the live register.

Coverage

In recent censuses returns have been required from all establishments/undertakings employing 20 or more. For the 1979 Census in 68 selected manufacturing industries coverage of establishments in the 20 to 49 employment size band has been reduced to a 1 in 2 sample. This change has relieved some 5,800 firms of the need to complete a census return.

TERMS USED IN THE CENSUS REPORT

Average number employed
Undertakings were required to state the average number of persons on the payroll during the year of return. Separate figures were required for:

- (a) administrative, technical and clerical 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 and works foremen; research and 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. Undertakings 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. Undertakings 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 undertaking's own staff and the cost of any newly constructed buildings purchased. Figures shown include 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 assets acquired in taking over an existing business), and the amounts receivable for 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

This includes amounts payable to other firms for work done on materials supplied by the undertaking, payments for repairs and maintenance (including those in respect of rented buildings) and amounts paid to other firms for contracts which have been sublet.

Cost of non-industrial services

This includes rents of industrial and commercial buildings, hire of plant, machinery and vehicles (excluding vehicles hired with drivers), commercial insurance premiums, bank charges and amounts paid for professional services, post office services, transport (within the United Kingdom), advertising etc. Amounts payable on royalties for the right to use patents, trademarks, copyrights etc, manufacturing 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 eg rent of buildings, hire of plant, machinery and vehicles (excluding vehicles hired with drivers), commercial insurance premiums, bank charges and amounts paid for professional services, post office services, transport (within the United Kingdom) 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 undertaking or given out to other establishments/undertakings for the production of machinery or other capital items for the undertaking's own use; of materials for use by the undertaking when working on goods supplied by customers; and of food, etc for any canteen covered by the undertaking's return. Transfers of goods to the undertaking from another department of the same firm not covered by the undertaking'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 undertaking. 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 cif plus duty (if applicable). Leasing, renting and hire purchase charges are excluded.

Sales of goods produced

Sales for the purposes of the annual censuses means deliveries on sale of goods made by undertakings in the United Kingdom covered by the inquiry. Sales of goods made for these undertakings by other undertakings from materials given out to them and sales of waste products are

included. New building work and machinery or other capital items produced by undertakings for hiring out or leasing are regarded as sales, the value included in the return being that adopted in the undertakings' 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 undertaking and transferred either to ancillary departments not engaged in production for which there are separate accounts, or to another undertaking of the same firm not covered by the return, are 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 are kept are valued on the same basis. The value shown for sales is the "net selling value" defined as the amount (excluding VAT) 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.

Receipts for work done and industrial services rendered

Figures for work done represent the amount charged for work carried out on materials supplied by a customer and include repair and jobbing work, erection and installation of plant and machinery, exploration work and research and development. Industrial services rendered include repairs and maintenance, installation work, and technical research and studies for other organisations.

Capital goods produced for undertakings' own use

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

Non-industrial services rendered

This includes rents received 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 received for the right to use patents, trademarks, copyrights etc, manufacturing and quarrying rights and technical "know-how" and revenue from such staff facilities as canteens.

Goods merchanted or factored

Merchant 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 and of materials, stores and fuel, at the end of the year of return and of the change during the year, including any stocks of goods held for merchanting or factoring. Work in progress is defined as materials which have been partially processed by the undertaking but which are not usually sold or transferred to another undertaking 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 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. 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 under the Social Security Pensions Act, 1975 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 dependants. Contributions to the running costs of canteens, social centres, children's and holiday homes, etc for employees, former employees and their dependants are also included.

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 corresponding estimate for the quantity shown in the denominator. These estimates cover all undertakings classified to each industry, including not selected undertakings and non-respondents. Within an industry, it is possible to compare 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 definitions, treatment of depreciation (which is not identified in the census data) and varying practice with regard to stock valuation, may affect comparability in some respects.

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