

PA261

① S/42 (HA25)

② 42

R834

1979

BRITISH LIBRARY
- 4 JUN 1981
OF POLITICAL AND
ECONOMIC SCIENCE

Business Statistics Office

Business Monitor

Report on the Census of Production

Coke ovens and manu- factured fuels

HMSO



A publication of the Government Statistical Service

PA261

Business Monitor

A publication of the Government Statistical Service

Report on the Census of Production 1979

Coke ovens and manu- factured fuels

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

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. Business Monitors have a code P (for production) followed first by A (indicating that it is an annual series) or O (occasional) or Q (quarterly) or M (monthly) or R (repetative — i.e. at regular intervals of less than one year but not monthly or quarterly): 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.

Enquiries:

Business Statistics Office
Newport, Gwent
NPT 1XG
Newport 56111 (STD code 0633) ext 2455
Telex 497121
Answer Back BSONPT G

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

PA261 COKE OVENS AND MANUFACTURED FUEL

PA261

The information in this report relates to establishments classified to the Coke ovens and manufactured fuel industry, minimum list heading 261 in the Standard Industrial Classification (revised 1968). The activities of the industry include:-

The production of hard coke and associated by-products by coke ovens and the production of low temperature coke and other manufactured solid fuels whether carbonised or not. Coke ovens forming part of the Gas industry are included in the Gas report (part PA601).

Some units engaged in the activities of this industry are included in the returns of multi-unit establishments classified mainly to the Iron and steel (General) Industry (MLH311, Census report part PA311). Care must be taken in making comparisons between information in this report and quantitative statistics published elsewhere.

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
2	Capital expenditure, 1975-1979	3
3	Stocks and work in progress, 1975-1979	3
4	Analysis of establishments by size, 1979	4-5
5	Regional distribution of employment, net capital expenditure, net output and gross value added at factor cost, 1979	6
6	Percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments, 1979	7
7	Percentage analysis of employees, by full and part-time employment and sex, 1977	7
8	Operating ratios, 1978-1979	8

TABLE 1

PA261

Output and costs, 1975-1979
All United Kingdom establishments classified to the industry (a)

	Unit	1975	1976	1977	1978	1979
Enterprises	Number	14	15	16	15	15
Establishments	"	43	44	40	38	38
Sales of goods produced, work done and industrial services rendered and sales of goods merchanted or factored	£ thousand	299,775(b)	370,505	370,408	418,336	470,086
Capital goods produced for establishments' own use	"	(b)	644	586	506	1,174
Non-industrial services rendered	"	159	224	89	111	160
Total sales and work done	"	299,934	371,373	371,084	418,953	471,421
Increase during the year, work in progress and goods on hand for sale	"	50,835	40,444	31,627	-7,500	-17,085
Gross output	"	350,769	411,817	402,711	411,453	454,336
Purchases of materials for use in production, and packaging and fuel and purchases of goods for merchenting or factoring (c)	"	281,270	319,515	301,493	303,112	340,994
Increase during the year, stocks of materials, stores and fuel	"	11,097	1,508	-2,019	5,246	1,589
Cost of industrial services received	"	4,404	5,528	5,746	6,874	8,940
Net output	"	76,192	88,282	93,453	106,714	105,991
Total employment (d)	Thousands	11.4	10.6	10.2	9.5	9.4
Net output per head	£	6,683	8,351	9,168	11,257	11,315
Payments for non-industrial services						
Hire of vehicles, plant and machinery	£ thousand	1,575(e)	1,683	1,570	2,241	1,993
Rents of industrial and commercial buildings	"	(e)	125	184	93	131
Commercial insurance premiums	"	347	698(f)	724(f)	826(f)	802
Bank charges	"	6	(f)	(f)	(f)	*
Other non-industrial services (g)	"	6,622	7,864	9,327	10,795	12,316
Licensing of motor vehicles	"	2	3	5	8	*
Rates, excluding water rates	"	2,465	2,411	2,616	2,688	2,872
Gross value added at factor cost	"	65,175	75,498	79,027	90,062	87,861
Gross value added at factor cost per head	£	5,717	7,142	7,753	9,500	9,380

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census. Satisfactory returns accounted for 97 per cent of employment within the industry.

(b) Included in Sales of goods produced, work done and industrial services rendered and goods merchanted or factored.

(c) Including excise duty payable on materials less allowances receivable on materials exported etc.

(d) Average number employed during the year, including full and part-time employees (see table 7).

(e) Rents of industrial and commercial buildings (not recorded separately) included in hire of vehicles, plant and machinery.

(f) Bank charges included with Commercial insurance premiums.

(g) For 1975 and 1976 figures include the cost of hiring goods vehicles. For 1975-1978 transport of goods by road (within the United Kingdom) was not recorded separately. For 1979 the amount payable was £5,412 thousand.

TABLE 2

PA261

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

	£ thousand				
	1975	1976	1977	1978	1979
Land and buildings					
New building work	190	1,191	948	859	973
Land and existing buildings					
Acquisitions	-	28	120	67	*
Disposals	-	6	12	-	*
Vehicles					
Acquisitions	152	116	208	425	170
Disposals	35	31	22	17	13
Plant and machinery					
Acquisitions	9,216	9,511	7,170	10,021	15,464
Disposals	14	16	52	23	36
Total net capital expenditure	9,510	10,794	8,360	11,332	16,740

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census.

(b) Capital expenditure in respect of manufacturing establishments where production had not commenced before the end of the year, is included.

TABLE 3

Stocks and work in progress, 1975-1979
All United Kingdom establishments classified to the industry (a)

	£ thousand				
	1975	1976	1977	1978	1979
	Increase				Value at end of year
Materials, stores and fuel	11,097	1,508	-2,019	5,246	1,589
Work in progress	139	158	123	92	441
Goods on hand for sale	50,696	40,287	31,504	-7,592	-17,525
Total	61,932	41,952	29,608	-2,254	-15,496

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census.

TABLE 4

PA261

Analysis of establishments by size, 1979
All United Kingdom establishments classified to the industry (a)

Size group (b)	Estab-lish-ments	Enter-prises (c)	Employment			Wages and salaries (e)			
			Total	Opera-tives	Others (d)	Operatives		Others (d)	
						Total	per head	Total	per head
Number	Number	Number	Number	Number	Number	£ thousand	£	£ thousand	£
1-10	7	6	45)						
11-19	3	3	43)	281	58	1,506	5,359	302	5,207
20-99	5	4	251)						
100-199	3	3	471	411	60	1,993	4,849	340	5,667
200-299	6	3	1,579	1,397	182	7,280	5,211	1,069	5,874
300 and over	14	3	6,978	5,850	1,128	30,313	5,182	7,122	6,314
Total	38	15	9,367	7,939	1,428	41,092	5,176	8,833	6,185

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census.

(b) Average number employed during the year, including full and part-time employees (see table 7).

(c) The count of enterprises shown in each row represents the number of enterprises, irrespective of size, owning the establishments shown in the previous column, i.e. the number of enterprises owning the establishments within the size group indicated by the row heading. It should be noted that because an enterprise may own establishments in more than one size group, the sum of the individual enterprise counts may exceed the total for the industry.

(d) Administrative, technical and clerical employees.

PA261

Total sales and work done (f)	Gross output	Net output		Gross value added at factor cost		Net capital expenditure (g)	Total stocks and work in progress at end of year
		Total	per head	Total	per head		
£ thousand	£ thousand	£ thousand	£	£ thousand	£	£ thousand	£ thousand
24,173	24,591	6,534	19,274	(h)	(h)	499	4,222
34,031	35,374	13,096	27,805	17,676(h)	21,822(h)	722	6,449
82,004	79,799	13,851	8,772	10,229	6,478	2,101	46,695
331,212	314,572	72,510	10,391	59,955	8,592	13,417	91,533
471,421	454,336	105,991	11,315	87,861	9,380	16,740	148,900

(e) The cost of employers' contributions to national insurance, pensions and welfare schemes and the running costs of canteens, is estimated for the industry at £8,214 thousand.

(f) Sales of goods produced, capital goods manufactured and buildings constructed by establishments for their own use, work done, industrial and non-industrial services rendered and merchanted goods.

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

(h) Gross value added data relate to establishments employing 1-199.

TABLE 5

PA261

Regional distribution of employment, net capital expenditure, net output and gross value added at factor cost, 1979
All United Kingdom establishments classified to the industry (a)

Area	Total employment (b)		Net capital expenditure (c)		Net output (d)	Gross value added at factor cost (d)	Gross value added at factor cost returned by establishments with 80 per cent or more of their employment in the region as a proportion of total gross value added at factor cost in the region
	Thousands	per cent of United Kingdom	£ thousand	per cent of United Kingdom	£ thousand	£ thousand	percentage
Standard regions of England							
North	*	*	*	*	*	*	*
Yorkshire and Humberside	*	*	*	*	*	*	*
East Midlands	*	*	*	*	*	*	*
East Anglia	—	—	—	—	—	—	—
South East	*	*	*	*	*	*	*
South West	*	*	*	*	*	*	*
West Midlands	*	*	*	*	*	*	*
North West	*	*	*	*	*	*	*
England	7.0	74.8	15,019	89.7	81,226	67,709	
Wales	*	*	*	*	*	*	*
Scotland	*	*	*	*	*	*	*
Great Britain	*	*	*	*	*	*	*
Northern Ireland	*	*	*	*	*	*	*
United Kingdom	9.4	100.0	16,740	100.0	105,991	87,861	

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census.

(b) Average number employed during the year, including full and part-time employees (see table 7).

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

(d) Where a census return covered addresses in two or more regions, an estimate of the net output attributable to each address was made by assuming that net output was proportionate to employment. An estimate for each region was obtained by aggregating estimates of net output for addresses located in that region. Gross value added at factor cost is treated similarly.

TABLE 6

PA261

Percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments, 1979

Accounting year ended		Percentage of total returns received	Percentage of total number employed	
		per cent	per cent	
1979	April (a)	—	—	
	May	—	—	
	June	—	—	
	July	—	—	
	August	—	—	
	September	—	—	
	October	—	—	
	November	—	—	
	December	20.0	18.8	
	1980	January	—	—
		February	—	—
		March (b)	80.0	81.2

(a) From 6th April.

(b) Including returns made for twelve-month period ended 1st to 5th April 1980.

TABLE 7

Percentage analysis of employees, by full and part-time employment and sex, 1977(a)

Sex	Full-time	Part-time	All employees
	per cent	per cent	per cent
Male	96	—	96
Female	3	1	4

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

PA 261

Operating ratios, 1978-1979
All United Kingdom establishments classified to the industry (a)

	Unit	1978	1979
Gross output per head	£	43,402	48,504
Net output per head	£	11,257	11,315
Gross value added per head	£	9,500	9,380
Gross value added as a percentage of gross output	%	22	19
Ratio of gross output to stocks (b)		2.5	3.1
Wages and salaries as a percentage of gross value added	%	48	57
Ratio of operatives to administrative, technical and clerical employees		4.6	5.6
Wages and salaries per administrative, technical and clerical employee	£	5,371	6,185
Wages and salaries per operative	£	4,386	5,176
Net capital expenditure per head	£	1,195	1,787
Net capital expenditure as a percentage of gross value added	%	13	19

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census.

(b) Stocks include materials, stores and fuel, work in progress 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 - PA 1001 (Introductory Notes) of the Report on the Census of Production, 1979.

GENERAL INFORMATION

Changes made for 1979

The Census for 1979 is in line with similar 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 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, 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.

Statistical units

The statistical unit for the purpose of the Census 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 (eg steel making or sugar refining). Typically the establishment embraces all the activities carried on at a single address eg 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 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 the latter case the establishment is defined to cover the combined activities at these addresses (termed local units). Separate figures are obtained of employment and net capital expenditure at each unit in order to compile regional tables.

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

Establishments are asked to exclude from their returns particulars relating to any department not engaged in production eg merchandising, 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 mainly engaged in the administration of the production units within the scope of the census were included. Where more than one return was made the information in respect of the head office was 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. An enterprise group is defined as a business consisting of either a single establishment or two or more establishments under common ownership or control. Bringing together 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 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 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 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 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.

Regions

The regions defined in Table 5 take account of the boundary changes arising out of the Local Government Act 1972 and the Local Government Act (Scotland) 1973. These changes came into effect in April 1974 in England and Wales and May 1975 in Scotland.

TERMS USED IN THE CENSUS REPORT

Average number employed

Establishments 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. Establishments were also required to state the number of working proprietors where appropriate and these are included in total employment figures. Full-time and part-time employees are included but outworkers (ie persons employed by establishments who worked in their own homes etc on materials supplied by the establishment) are excluded. The figures include persons engaged on merchandising or factoring and canteen workers where particulars in respect of these activities could not be excluded from the return.

Working proprietors

These include all persons regarded as "self-employed" for national insurance purposes and members of their families who worked in the business without receiving a wage or salary; but such persons who worked less than half the normal number of working hours are excluded. Directors working in the business but not in receipt of a definite wage, salary or commission are included under this heading: directors paid by fee only are not included.

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, but outworkers are excluded.

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. 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. 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 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 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. Payments to outworkers are excluded.

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 and working proprietors, but excluding outworkers.

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 and working proprietors, but excluding outworkers.

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 est-

ablishment'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 merchandising 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 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 establishments in the United Kingdom covered by the inquiry. Sales of goods made for these establishments by outworkers or by other establishments from materials given out to them and sales of waste products are included. 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 establishments' 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 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 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. In industries where products attract Excise Duty the value stated is usually inclusive of duty if sold duty-paid and exclusive of duty if sold in bond or exported.

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 work. Within certain industries this heading covers a wide variety of activities, for example, within the food sector - butter packed on commission; within the textile industries - making up of garments, fur dressing and textile finishing; within printing and publishing - preparatory work on type-setting, block making and binding. Work done is also significant in the electrical machinery and heavy engineering industries, covering erection, installation and repair and jobbing work. Other activities within this heading include exploration work, research and development, glass cutting and dressing and planing of timber.

Industrial services rendered include repairs and maintenance, installation work, and technical research and studies for other organisations.

Capital goods produced for establishment's own use

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

Non-industrial services rendered

This includes rents 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

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 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 merchandising 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. 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. 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.

Remuneration paid to outworkers

The remuneration paid to outworkers (ie persons employed by the establishment who do their work in their own homes) is generally on a piece-work basis. Only amounts paid to outworkers whose names appear on the establishment's payroll are included. Amounts paid to outworkers by sub-contractors are 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 establishments classified to each industry, including not selected establishments 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.

Produced in Wales by Her Majesty's Stationery Office

Reprographic Unit, Cardiff

Dd. 699517 C8 Cdf 48 3/81

© Crown copyright 1981

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*

'Brief extracts from this publication may be reproduced provided the source is fully acknowledged. Proposals for reproduction of larger extracts should be addressed to the Librarian, Business Statistics Office, Newport, Gwent NPT 1XG.