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1979

Business Statistics Office

Business Monitor

Report on the Census of Production

-1 JUL 1981
OF PULITIONS AND ECONOMIC SCIENCE

Pumps

HMSO



A publication of the Government Statistical Service

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PA333.1 Business Monitor

A publication of the Government Statistical Service

Report on the Census of Production 1979

Pumps

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

List of Industry Reports, etc.

	Introductory notes	PA369.1	Electrical equipment for motor vehicles, cycles
PA101 PA102	Coal mining Stone and slate quarrying and mining	PA360 2	and aircraft Primary and secondary batteries
PA103	Chalk, clay, sand and gravel extraction		Electric lamps, electric light fittings, wiring
PA104	Petroleum and natural gas		accessories, etc.
PA109	Miscellaneous mining and quarrying	PA370	Shipbuilding and marine engineering
PA211	Grain milling	PA380	
PA212	Bread and flour confectionery		Motor vehicle manufacturing
PA213 PA214	Biscuits Recon suring most and fish products	PA381.2 PA382	Trailers, caravans and freight containers Motor cycle, tricycle and pedal cycle manufacturing
PA214	Bacon curing, meat and fish products Milk and milk products	PA383	Aerospace equipment manufacturing and repairing
PA216	Sugar	PA384	Locomotives, railway track equipment, railway carriag
PA217	Cocoa, chocolate and sugar confectionery		wagons and trams
PA218	Fruit and vegetable products	PA390	Engineers' small tools and gauges
PA219	Animal and poultry foods	PA391	Hand tools and implements
PA221	Vegetable and animal oils and fats	PA392	Cutlery, spoons, forks and plated tableware, etc.
	Margarine Starch and miscellaneous foods	PA393 PA394	Bolts, nuts, screws, rivets, etc. Wire and wire manufactures
PA231		PA395	Cans and metal boxes
PA232		PA396	Jewellery and precious metals
	Spirit distilling and compounding	PA399.1	Metal furniture
	British wines, cider and perry		Drop forgings, etc.
	Tobacco		Metal hollow ware
	Coke ovens and manufactured fuel		Miscellaneous metal manufacture
	Mineral oil refining Lubricating oils and greases	PA411 PA412	Production of man-made fibres Spinning and doubling on the cotton and flax systems
	Inorganic chemicals	PA413	Weaving of cotton, linen and man-made fibres
	Organic chemicals	PA414	Woollen and worsted
	Miscellaneous chemicals	PA415	Jute
PA272	Pharmaceutical chemicals and preparations	PA416	Rope, twine and net
PA273	Toilet preparations		Hosiery and other knitted goods
PA274	Paint		Warp knitting
PA275 PA276	Soap and detergents Synthetic resins and plastics materials and	PA418 PA419	Lace
FA2/0	synthetic rubber	PA419	Carpets Narrow fabrics
PA277	Dyestuffs and pigments		Household textiles and handkerchiefs
	Fertilizers		Canvas goods and sacks and other made-up textiles
	Polishes	PA423	Textile finishing
PA279.2	Formulated adhesives, gelatine, etc.		Asbestos
PA279.3	Explosives and fireworks		Miscellaneous textile industries
PA279.4	Formulated pesticides, etc. Printing ink	PA431	Leather (tanning and dressing) and fellmongery
	Surgical bandages, etc.	PA432 PA433	Leather goods Fur
	Photographic chemical materials	PA441	Weatherproof outerwear
PA311	Iron and steel (general)	PA442	Men's and boys' tailored outerwear
PA312	Steel tubes	PA443	Women's and girls' tailored outerwear
PA313	Iron castings, etc.	PA444	Overalls and men's shirts, underwear, etc.
PA321 PA322	Aluminium and aluminium alloys	PA445	Dresses, lingerie, infants' wear, etc.
PA323	Copper, brass and other copper alloys Miscellaneous base metals	PA446	Hats, caps and millinery Corsets and miscellaneous dress industries
PA331	Agricultural machinery (except tractors)	PA449.2	
PA332	Metal-working machine tools		Footwear
PA333.1	Pumps		Refractory goods
PA333.2			Building bricks and non-refractory goods
	Compressors and fluid power equipment	PA462	Pottery
PA334 PA335	Industrial engines Textile machinery and accessories	PA463	Glass
PA336	Construction and earth-moving equipment	PA464	
PA337	Mechanical handling equipment		Abrasives Miscellaneous building materials and mineral products
PA338	Office machinery	PA471	Timber
PA339.1	Mining machinery	PA472	Furniture and upholstery
PA339.2	Printing, bookbinding and paper goods machinery	PA473	Bedding, etc.
PA339.3	Refrigerating machinery, space-heating,	PA474	Shop and office fitting
PA330 F	ventilating and air-conditioning equipment	PA475	Wooden containers and baskets
A339.5	Scales and weighing machinery and portable power tools	PA479 PA481	Miscellaneous wood and cork manufactures
PA339.7	Food and drink processing machinery and		Paper and board Cardboard boxes, cartons and fibre-board packing case
	packaging and bottling machinery		Packaging products of paper and associated materials
PA339.9	Miscellaneous (non-electrical) machinery	PA483	Manufactured stationery
PA341	Industrial (including process) plant and steelwork	PA484.1	Wallcoverings
PA342	Ordnance and small arms		Miscellaneous manufactures of paper and board
PA349.1	Ball, roller, plain and other bearings	PA485	Printing, publishing of newspapers and periodicals
PA351	Precision chains and other mechanical engineering Photographic and document copying equipment	PA489 PA491	General printing and publishing Rubber
PA352	Watches and clocks	PA492	Linoleum, plastics floor-covering, leathercloth, etc.
PA353	Surgical instruments and appliances	PA493	Brushes and brooms
PA354	Scientific and industrial instruments and systems	PA494.1	Toys, games and children's carriages
PA361	Electrical machinery	PA494.3	Sports equipment
PA362	Insulated wires and cables	PA495	Miscellaneous stationers' goods
PA363	Telegraph and telephone apparatus and	PA496	Plastics products
PA364	equipment Radio and electronic components		Musical instruments
	Radio and electronic components Gramophone records and tape recordings	PA499.2 PA500	Miscellaneous manufacturing industries Construction
PA365.2	Broadcast receiving and sound reproducing	PA601	Gas
	equipment	PA602	Electricity
PA366	Electronic computers	PA603	Water supply
PA367	Radio, radar and electronic capital goods		Summary tables
PA368	Electrical appliances primarily for domestic use		

PA333.1 PUMPS PA333.1

The information in this report relates to establishments classified to the Pumps industry, minimum list heading 333.1 in the Standard Industrial Classification (revised 1968). The activities of the industry include:—

Manufacturing pumps for handling liquids (including petrol station pumps).

Prior to 1975 for production census purposes, separate figures were not available for Pumps MLH 333.1; Valves MLH 333.2; Compressors and fluid power equipment MLH 333.3/4.

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 2

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

	Unit	1975	1976	1977	1978	1979
Enterprises	Number	167	154	164	172	173
Establishments	"	179	170	178	187	191
Sales of goods produced	£ thousand	221,063(b)	261,123	328,154	360,859	390,820
Receipts for work done and industrial services rendered		(b)	5,966	11,148	21,269	26,264
Capital goods produced for establishments' own use	**************************************	79	158	240	235	251
Non-industrial services rendered	"	(b)	5,191	6,868	7,770	8,166
Goods merchanted or factored	"	26,008	41,096	43,638	46,919	40,352
Total sales and work done (c)	"	247,150	313,533	390,048	437,053	465,853
ncrease during the year, work in progress and goods on hand for sale	,,	9,122	5,088	13,630	6,526	10,073
Gross output	"	256,272	318,622	403,678	443,579	475,927
Purchases of materials for use in production, and packaging and fuel	,,	105,546	127,189	166,639	173,889	190,254
Purchases of goods for merchanting or actoring	"	23,752	35,305	40,965	39,331	30,229
ncrease during the year, stocks of naterials, stores and fuel	"	4,119	4,292	12,134	7,995	3,596
Cost of industrial services received	"	5,316	5,181	7,609	7,976	9,225
Net output	"	125,777	155,238	200,600	230,377	249,816
Total employment (d)	Thousands	24.4	26.0	28.4	27.6	27.0
Net output per head	£	5,150	5,961	7,057	8,356	9,237
ayments for non-industrial services						
Hire of vehicles, plant and machinery	£ thousand	1,448	1,537	2,269	2,779	3,903
Rents of industrial and commercial buildings	,,	(e)	1,106	1,719	1,947	2,367
Commercial insurance premiums	"	1,196	1,661	2,086	2,578	2,640
Bank charges		149	241	377	346	409
Other non-industrial services (f)		11,240	12,786	16,016	17,296	20,523
icensing of motor vehicles		90	137	147	220	226
Rates, excluding water rates		1,808	2,360	2,887	2,789	3,204
Gross value added at factor cost		109,847	135,411	175,100	202,422	216,544
Gross value added at factor cost per head	£	4,497	5,200	6,160	7,342	8,007

⁽a) Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census. Satisfactory returns accounted for 82 per cent of employment within the industry.

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

				No. of the last of	£ thous
	1975	1976	1977	1978	1979
and and buildings					
New building work	418	1,575	2,528	2,509	2,205
Land and existing buildings					
Acquisitions	157	502	1,288	379	282
Disposals	103	75	110	293	479
/ehicles					
Acquisitions	819	1,216	1,866	2,615	2,579
Disposals	353	345	497	702	759
Plant and machinery					
Acquisitions	4,877	6,565	9,133	11,422	9,168
Disposals	262	871	1,189	855	470
Total net capital expenditure	5,553	8,567	13,018	15,076	12,527.

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

TABLE 3

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

	1975	1976	1977	1978	1979	
	882,8220 123 0	5 (543)	Increase			Value at end of year
Materials, stores and fuel	4,119	4,292	12,134	7,995	3,596	70,462
Work in progress	7,360	4,254	9,609	2,806	7,188	63,793
Goods on hand for sale	1,762	835	4,021	3,720	2,886	22,420
Total	13,241	9,380	25,764	14,521	13,670	156,675

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

⁽b) Receipts for work done, industrial and non-industrial services rendered are included in sales of goods produced.

⁽c) Details of manufacturers' quarterly sales of principal products are published regularly in Business Monitor PQ333.1.

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

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

⁽f) For 1975—1978 transport of goods by road (within the United Kingdom) was not recorded separately. For 1979 the amount payable was £2,524 thousand.

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

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

Size group (b)	Estab- lish- ments	prises	Employment			Wages and salaries (f)			
			Total (d)	Opera- tives	Others (e) Number	Operatives		Others (e)	
			(0)	1,700		Total £ thousand	per head £	Total • £ thousand	per head £
	Number	Number	Number	Number					
1–10	62	61	320)						
11–19	32	31	499)	1.044	1.210	6,673	4,059	5,979	4,904
20-49	17	17	569)	1,644	1,219	219 0,073	4,009	0,979	4,504
50-99	22	22	1,556)						
100-199	28	26	3,957	2,063	1,889	8,749	4,241	8,953	4,739
200-299	9	8	1,978	1,084	894	4,770	4,400	4,532	5,069
300-499	6	6	2,255	1,104	1,151	4,709	4,265	5,294	4,599
500-749	7	7	4,219	2,217	2,002	9,327	4,207	9,724	4,857
750-999	5	5	4,236	2,302	1,934	10,458	4,543	9,447	4,885
1,000 and over	3	3	7,455	3,598	3,857	15,495	4,307	19,408	5,032

Total	191	173	27,044	14,012	12,946	60,180	4,295	63,337	4,892

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

Total sales and work done (g)	Gross output	Net output		Gross value added at factor cost		Net capital expenditure (h)	Total stocks and work in progress at end of year
		Total	per head	Total	per head		
£ thousand	£ thousand	£ thousand	£	£ thousand	£	£ thousand	£ thousand
59,942	61,296	32,580	11,066	(j)	(j)	2,071	20,043
81,344	82,437	43,621	11,024	66,121(j)	9,581(j)	2,263	24,777
39,223	40,156	19,944	10,083	17,075	8,633	1,097	11,574
32,129	31,911	15,098	6,695	11,874	5,266	536	14,831.
85,380	85,035	40,906	9,696	34,674	8,219	2,503	24,419
70,673	71,124	37,917	8,951	32,471	7,665	1,918	21,166
97,162	103,966	59,750	8,015	54,328	7,287	2,139	39,865

465,853	475,927	249,816	9,237	216,544	8,007	12,527	156,675

⁽f) The cost of employers' contributions to national insurance, pensions and welfare schemes and the running costs of canteens, is estimated for the industry at £22,681 thousand.

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

⁽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) Including working proprietors.

⁽e) Administrative, technical and clerical employees.

⁽g) 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.

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

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

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TABLE 6

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

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

Area	Total employment	Fotal Imployment (b)		Net capital expenditure (c)		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	1.4	5.1	776	6.2	10,699	9,103	66.0	
Yorkshire and Humberside	1.6	6.1	819	6.5	16,227	14,098	60.0	
East Midlands	2.1	7.7	942	7.5	20,464	17,714	68.8	
East Anglia	0.2	0.8	279	2.2	3,032	2,732	87.4	
South East	8.8	32.6	4,899	39.1	84,592	70,776	72.8	
South West	1.8	6.6	1,091	8.7	23,212	21,244	90.6	
West Midlands	1.7	6.4	616	4.9	14,179	12,187	58.2	
North West	3.8	14,2	1,321	10.5	31,176	26,631	62.3	
England	21.5	79.5	10,742	85.8	203,581	174,484		
Wales	0.1	0.2	2	-	575	475	-	
Scotland	5.4	19.8	1,735	13.8	44,315	40,481	95.0	
Great Britain	26.9	99.6	12,479	99.6	248,471	21.5,440		
Northern Ireland	0.1	0.4	47	0.4	1,345	1,103	75.3	
United Kingdom	27.0	100.0	12,527	100.0	249,816	216,544		

(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) and working proprietors.

(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.

Accounting year ended		Percentage of total returns received	Percentage of total number employed
		per cent	per cent
1979	April (a)	4.2	0.6
	May	1.4	0.2
	June	6.9	11.2
	July		
	August		
	September	6.9	2.3
	October	1.4	1.5
	November	4.2	2.0
	December	56.9	73.1
1980	January	1.4	0.2
	February		
	March (b)	16.7	8.7

(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, for the Pumps, valves and compressors and fluid power equipment industries minimum list heading 333 1977(a)

Sex	Full-time	Part-time	All employees
	per cent	per cent	per cent
Male	82	1	83
Female	14	3	17

Source: Department of Employment

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(a) The percentages relate to the numbers employed (excluding working proprietors) in the United Kingdom in minimum list heading 333 at mid-June, 1977, the latest date for which information is available. In the 1977 Census of Production the employment of the Pumps industry represented 32 per cent of the employment of minimum list heading 333 as a whole.

PA333.1

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

	Unit	1978	1979
Gross output per head	£	16,089	17,598
Net output per head	£	8,356	9,237
Gross value added per head	£	7,342	8,007
Gross value added as a percentage of gross output	%	46	45
Ratio of gross output to stocks (b)		3.1	3.0
Wages and salaries as a percentage of gross value added	%	55	57
Ratio of operatives to administrative, technical and clerical employees		1.1	1.1
Wages and salaries per administrative, technical and clerical employee	£	4,317	4,892
Wages and salaries per operative	£	3,793	4,295
Net capital expenditure per head	£	547	463
Net capital expenditure as a percentage of gross value added	%	7	6

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

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 merchanting, transport, warehousing, for which they keep a separate set of accounts. Transfers of goods produced to such departments are treated as sales and respondents are asked to value them as far as possible as if sold to an independent purchaser. Where separate accounts are not kept they are asked to include details of all these activities in their return.

Particulars relating to head offices 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

⁽b) Stocks include materials, stores and fuel, work in progress and goods on hand for sale at the end of the business year.

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 merchanting 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.

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 vear

(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

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, 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,

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 parttime) 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 include the cost of raw materials, components, semimanufactured 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 merchanting or factoring have been collected separately since 1973. The values shown exclude VAT. They include, in addition to the actual purchase price, the value of packaging material charged to the establishment. The value of returned goods or packaging material returned to suppliers and any trade discounts are excluded. Materials purchased duty-paid are included at their duty-paid value, less any drawback, rebate, etc. The cost of transport is included only if it is included with the purchase price in the firm's accounts. Imported goods are included at their full delivered cost. If in the firm's accounts the transport from docks or airport is not included in the cost of goods purchased, the cost is entered at 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

The value shown for sales is the "net selling value" defined as the amount (excluding VAT) charged to customers whether on an exworks 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

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

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 merchanting or factoring. Work in progress is defined as materials which have been partially processed by the establishment but which are not usually sold or transferred to another establishment without further processing. The values include the cost of materials consumed and labour used Progress payments made to subcontractors are excluded and progress payments received from other organisations are not deducted.

Wages and salaries

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

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.

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 resultsfor 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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