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Business Statistics Office

Business Monitor

Report on the Census of Production

Pharmaceutical chemicals and preparations



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Business Monitor

A publication of the Government Statistical Service

Report on the Census of Production 1979

Pharmaceutical chemicals and preparations

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

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

Miscellaneous mining and quarrying

Bacon curing, meat and fish products

Cocoa, chocolate and sugar confectionery

Petroleum and natural gas

Milk and milk products

Grain milling
Bread and flour confectionery

Fruit and vegetable products

Vegetable and animal oils and fats

Spirit distilling and compounding

Coke ovens and manufactured fuel

Pharmaceutical chemicals and preparations

Synthetic resins and plastics materials and

Animal and poultry foods

PA229.2 Starch and miscellaneous foods

Brewing and malting

PA239.2 British wines, cider and perry

Mineral oil refining

Toilet preparations

Soap and detergents

Dyestuffs and pigments

PA279.2 Formulated adhesives, gelatine, etc.

PA279.6 Surgical bandages, etc.
PA279.7 Photographic chemical materials
PA311 Iron and steel (general)

Aluminium and aluminium alloys

Metal-working machine tools

PA333.3 Compressors and fluid power equipment

PA339.3 Refrigerating machinery, space-heating,

Ordnance and small arms

Watches and clocks

Electrical machinery

equipment

equipment Electronic computers

Insulated wires and cables

Textile machinery and accessories

Copper, brass and other copper alloys Miscellaneous base metals

Agricultural machinery (except tractors)

Construction and earth-moving equipment Mechanical handling equipment

PA339.2 Printing, bookbinding and paper goods machinery

ventilating and air-conditioning equipment PA339.5 Scales and weighing machinery and portable

> Food and drink processing machinery and packaging and bottling machinery

Miscellaneous (non-electrical) machinery

PA349.2 Precision chains and other mechanical engineering

Telegraph and telephone apparatus and

Broadcast receiving and sound reproducing

Radio, radar and electronic capital goods

Electrical appliances primarily for domestic use

Radio and electronic components Gramophone records and tape recordings

Ball, roller, plain and other bearings

Surgical instruments and appliances

Industrial (including process) plant and steelwork

Photographic and document copying equipment

Scientific and industrial instruments and systems

synthetic rubber

PA279.3 Explosives and fireworks

PA279.4 Formulated pesticides, etc.

Steel tubes

Iron castings, etc.

Industrial engines

Office machinery

Mining machinery

Fertilizers

Polishes

PA279.5 Printing ink

Lubricating oils and greases

Soft drinks

Tobacco

PA271.1 Inorganic chemicals PA271.2 Organic chemicals

Paint

PA271.3 Miscellaneous chemicals

Coal mining

Sugar

PA229.1 Margarine

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PA239.1

Primary and secondary batteries

PA369.4 Electric lamps, electric light fittings, wiring accessories, etc.

Shipbuilding and marine engineering

Wheeled tractor manufacturing PA380 Motor vehicle manufacturing

Trailers, caravans and freight containers Motor cycle, tricycle and pedal cycle manufacturing PA382

Aerospace equipment manufacturing and repairing PA383 PA384 Locomotives, railway track equipment, railway carriages,

wagons and trams Engineers' small tools and gauges PA390

Hand tools and implements
Cutlery, spoons, forks and plated tableware, etc.

PA392 Bolts, nuts, screws, rivets, etc. PA393 Wire and wire manufactures

PA305 Cans and metal boxes

Jewellery and precious metals PA396 Metal furniture

PA399.5 Drop forgings, etc. PA399.6 Metal hollow ware

PA399.8 Miscellaneous metal manufacture Production of man-made fibres PA411

Spinning and doubling on the cotton and flax systems PA412

PA413 Weaving of cotton, linen and man-made fibres

Woollen and worsted PA414 PA415 Jute

PA416 Rope, twine and net

Hosiery and other knitted goods PA417 1

PA417.2 Warp knitting PA418 PA419 Carnets

Narrow fabrics

Household textiles and handkerchiefs PA422.

Canvas goods and sacks and other made-up textiles PA422.2

PA423 PA429 1 Asbestos

PA429.2 Miscellaneous textile industries

Leather (tanning and dressing) and fellmongery PA431

PA432 Leather goods

PA433

PA441 Weatherproof outerwear

Men's and boys' tailored outerwear PA442 Women's and girls' tailored outerwear

PA444 Overalls and men's shirts, underwear, etc. PA445 Dresses, lingerie, infants' wear, etc.

Hats, caps and millinery PA446

Corsets and miscellaneous dress industries

PA449.1

PA449 2 Gloves

PA450 Footwear

PA461.1 Refractory goods

PA461.2 Building bricks and non-refractory goods

PA462 Pottery

PA463

PA464 Cement

PA469.1 Abrasives

PA469.2 Miscellaneous building materials and mineral products

PA471 Timber

PA472 Furniture and upholstery

PA473 PA474

Bedding, etc.
Shop and office fitting
Wooden containers and baskets

PA479 Miscellaneous wood and cork manufactures

PA481 Paper and board Cardboard boxes, cartons and fibre-board packing cases

PA482.2 Packaging products of paper and associated materials

PA483 Manufactured stationery

Wallcoverings

Miscellaneous manufactures of paper and board PA484 2

Printing, publishing of newspapers and periodicals PA485 General printing and publishing

PA491 Rubber

Linoleum, plastics floor-covering, leathercloth, etc. PA492

Brushes and brooms
Toys, games and children's carriages PA494 1

PA494.3 Sports equipment

PA495 Miscellaneous stationers' goods PA496 Plastics products

PA499 1 Musical instruments

Miscellaneous manufacturing industries PA499.2

PA500 Construction Gas

PA601 PA602 Electricity

PA603 Water supply

PA1002 Summary tables

PA272 PHARMACEUTICAL CHEMICALS AND PREPARATIONS

The information in this report relates to establishments classified to the Pharmaceutical chemicals and preparations industry, minimum list heading 272 in the Standard Industrial Classification (revised 1968). The activities of the industry include:—

Manufacturing products for therapeutic and prophylactic use (including veterinary) and chemicals for compounding into such products, including the same chemicals when used subsequently as additives to foods and drinks.

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

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

	Unit	1975	1976	1977	1978	1979
Enterprises	Number	286	294	281	266	267
Establishments		324	326	309	293	288
Sales of goods produced	£ thousand	928,773(b)	1,112,915	1,390,084	1,659,189	1,835,920
Receipts for work done and industrial services rendered		(b)	4,451	5,069	9,829	5,887
Capital goods produced for establishments' own use		9,730	7,936	9,648	13,788	13,832
Non-industrial services rendered	,,	6,174	9,240	9,033	11,114	9,528
Goods merchanted or factored		69,148	93,956	131,519	137,304	157,776
Total sales and work done (c)		1,013,825	1,228,498	1,545,353	1,831,225	2,022,943
ncrease during the year, work in progress and goods on hand for sale		40,438	29,768	60,250	40,517	62,611
Gross output		1,054,263	1,258,266	1,605,603	1,871,742	2,085,554
Purchases of materials for use in production, and packaging and fuel		441,387(d)	516,325(d)	621,680(d)	754,473	756,983
Purchases of goods for merchanting or actoring		54,048	81,069	98,220	116,861	132,271
ncrease during the year, stocks of naterials, stores and fuel	,,	2,912	20,855	14,608	37,968	12,175
Cost of industrial services received		17,374	18,196	23,411	29.984	34,237
Excise payments, etc. (net)		(d)	(d)	(d)	-414	-723
Net output	.,	544,368	663,532	876,901	1,008,806	1,174,962
Fotal employment (e)	Thousands	66.4	64.8	65.6	66.6	66.1
Net output per head	£	8,194	10,234	13,374	15,140	17,767
Payments for non-industrial services						
Hire of vehicles, plant and machinery	£ thousand	5,242(f)	2,903	6,248	7,099	10,251
Rents of industrial and commercial buildings	,,	(f)	3,057	2,966	3,733	4,672
Commercial insurance premiums		4,391	5,341	6,633	9,602	10,323
Bank charges		547	435	537	646	779
Other non-industrial services (g)		72,389	83,093	114,201	132,207	150,221
icensing of motor vehicles	"	219	258	289	381	379
Rates, excluding water rates	,,	6,399	7,836	8,575	9,144	10,682
Gross value added at factor cost		455,181	560,609	737,452	845,993	987,655
Gross value added at factor cost per head	£	6,851	8,647	11,247	12,696	14,934

⁽a) Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census. Satisfactory returns accounted for 93 per cent of employment within the industry.

TABLE 2

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

£ thousand

Parties (Secretary Control of Con	1975	1976	1977	1978	1979
and and buildings					
New building work	23,783	17,978	21,496	33,157	35,618
Land and existing buildings					
Acquisitions	863	1,794	4,527	4,102	5,870
Disposals	253	1,812	1,072	391	394
ehicles					
Acquisitions	3,866	4,950	6,960	7,739	9,280
Disposals	1,513	2,102	2,491	2,873	3,536
lant and machinery					
Acquisitions	45,888	46,101	59,492	84,169	100,640
Disposals	445	879	1,225	1,451	1,498
Total net capital expenditure	72,190	66,030	87,686	124,452	145,981

⁽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 industry (a)

£	th	011	62

	1975	1976	1977	1978		1979
		1 1 254 9 25	Increase	EE. 0. (1950 page 1970 1970 1970 1970 1970 1970 1970 1970	No. of Principles	Value at end of year
Materials, stores and fuel	2,912	20,855	14,608	37,968	12,175	203,213
ork in progress	20,286	18,961	29,422	21,733	22,267	193,842
coods on hand for sale	20,152	10,807	30,828	18,784	40,344	189,180
Total	43,350	50,623	74,858	78,485	74,786	586,235

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

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

⁽c) Details of manufacturers' quarterly sales of principal products are published regularly in Business Monitor PQ272.

⁽d) Excise payments included in purchases of materials and fuel.

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

⁽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 £17,500 thousand.

c) 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 industry (a)

Size group (b)	Estab- lish- ments	Enter- prises (c)				Wages and sa	Wages and salaries (f)			
			Total (d)	Opera- tives	Others (e)	Operatives		Others (e)		
				tives	(6)	Total	per head	Total	per head	
	Number	Number	Number	Number	Number	£ thousand	£	£ thousand	£	
1–10	140	138	604)							
11–19	32	32	465)							
20–49	24	24	851)	2,220	1,445	6,819	3,072	6,639	4,594	
50-99	26	26	1,954)							
100—199	16	16	2,182	1,215	966	3,911	3,219	4,746	4,913	
200–299	9	9	2,159	1,184	968	4,211	3,557	5,298	5,474	
300-499	13	13	4,846	2,384	2,462	7,538	3,162	11,739	4,768	
500-749	7	7	4,403	2,294	2,109	9,826	4,283	12,038	5,708	
750-999	6	6	5,279	2,592	2,687	10,377	4,003	15,401	5,732	
1,000—1,499	5	5	5,874	2,679	3,195	10,253	3,827	16,468	5,154	
,500—2,999	5	5	9,949	4,892	5,057	23,404	4,784	29,419	5,817	
3,000 and over	5	5	27,567	12,840	14,727	54,230	4,224	82,799	5,622	

	And the second second								
Total	288	267	66,133	32,300	33,616	130,569	4,042	184,548	5,490

⁽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	24 Sept.	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
89,351	91,390	44,789	11,562	(j)	(j)	4,454	20,992
03,301							
54,915	54,862	27,592	12,645	52,543(j)	8,676(j)	1,991	13,409
93,695	96,566	33,483	15,509	27,030	12,520	6,417	47,363
132,604	136,501	81,816	16,883	64,340	13,277	4,219	33,539
184,208	185,729	89,452	20,316	80,436	18,268	14,964	50,062
200,328	204,159	118,046	22,362	81,737	15,483	11,940	45,643
188,628	190,959	94,364	16,065	78,402	13,347	19,014	47,383
290,450	296,287	169,365	17,023	142,669	14,340	23,913	95,270
788,764	829,101	516,054	18,720	460,498	16,705	59,068	232,574

2,022,943	2.085.554	1,174,962	17,767	987,655	14,934	145,981	586,235
2,022,343	2,000,004	1,174,002					

⁽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 £65,912 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.

TABLE 6

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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 factor cost by establish 80 per cent of their em in the regio proportion	returned ments with or more ployment on as a 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	5.3	8.0	13,264	9.1	92,824	87,350	30.5	
Yorkshire and Humberside	2.7	4.0	5,515	3.8	39,722	31,526	23.5	
East Midlands	5.7	8.7	11,755	8.0	95,932	81,354	13.1	
East Anglia	TV14.20 *1 524	*	100 mm	*30,31	4.3664.*	The Table	80 3 * 4	
South East	31.5	47.6	61,147	41.9	557,025	463,033	57.1	
South West	1.4	2.1	6,703	4.6	26,451	20,520	79.9	
West Midlands		*		*	*		*	
North West	12.6	19.0	23,159	15.9	255,487	210,537	60.9	
England	60.5	91.5	124,616	85.4	1,084,204	908,112		
Wales	2.1	3.1	1,922	1.3	33,430	27,875	48.6	
Scotland	3.5	5.3	19,365	13.3	56,416	51,004	25.2	
Great Britain	66.1	99.9	145,903	100.0	1,174,050	986,990		
Northern Ireland	0.1	0.1	78	_	911	665	-	
United Kingdom	66.1	100.0	145,981	100.0	1,174,962	987,655		

(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.

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.

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

Accoun	ting year ended	Percentage of total returns received	Percentage of total number employed
	and the second	per cent	per cent
1979	April (a)	3.1	1.0
	May	2.0	0.3
	June	10.2	18.0
	July	2.0	0.6
	August	1.0	9.4
	September	3.1	0.4
	October	3.1	4.4
	November	8.2	9.5
	December	52.0	49.0
1980	January	2.0	0.5
	February	1,0	
	March (b)	12.2	6.9

(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	56	1	57
Female	35	8	43

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.

PA272

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

The late section will be sectioned.	Unit	1978	1979
Gross output per head	£	28,090	31,536
Net output per head	£	15,140	17,767
Gross value added per head	£	12,696	14,934
Gross value added as a percentage of gross output	%	45	47
Ratio of gross output to stocks (b)		3.6	3.6
Wages and salaries as a percentage of gross value added	%	32	32
Ratio of operatives to administrative, technical and clerical employees		1.0	1.0
Wages and salaries per administrative, technical and clerical employee	£	4,808	5,490
Wages and salaries per operative	£	3,405	4,042
Net capital expenditure per head	£	1,868	2,207
Net capital expenditure as a percentage of gross value added	%	15	15

(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.

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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.

overage

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 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.

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 outpu

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 partime) 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.

Purchase

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 navable 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 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 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 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.

Operating ratio

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.

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