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OF POLITICAL AND ECONOMIC SCIENCE **Business Statistics Office**

Business Monitor

Report on the Census of Production

Animal and poultry foods



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PA219

Business Monitor

A publication of the Government Statistical Service

Report on the Census of Production 1977

Animal and poultry foods

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

Miscellaneous mining and quarrying

Bacon curing, meat and fish products

Cocoa, chocolate and sugar confectionery

Petroleum and natural gas

Milk and milk products

Bread and flour confectionery

Fruit and vegetable products

Vegetable and animal oils and fats

Spirit distilling and compounding

Coke ovens and manufactured fuel

Miscellaneous chemicals
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

Inorganic chemicals

Toilet preparations

Soap and detergents

Dyestuffs and pigments

PA279.2 Formulated adhesives, gelatine, etc.

Iron and steel (general)

Miscellaneous base metals

Photographic chemical materials

Aluminium and aluminium alloys

Copper, brass and other copper alloys

synthetic rubber

PA279.3 Explosives and fireworks

Printing ink

PA279.6 Surgical bandages, etc.

Steel tubes

Pumps

PA279.4 Formulated pesticides, etc.

Iron castings, etc.

Fertilizers

Polishes

Lubricating oils and greases

Chalk, clay, sand and gravel extraction

Coal mining

Grain milling

Biscuits

Sugar

Margarine

Soft drinks

Tobacco

PA271.2 Organic chemicals

Paint

PA1001

PA101

PA102

PA103

PA104

PA109

PA211

PA212

PA214

PA215

PA216

PA217

PA218

PA219

PA221

PA229.1

PA231

PA232

PA239 1

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PA261

PA262

PA271.1

PA271.3

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PA278

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PA279.7

PA312

PA313

PA321

PA322

PA323

PA331

PA3331

PA333.3

PA334

PA335

PA342

PA351

PA333.2 Valves

PA369.1	Electrical equipment	for motor vehicles,	cycl
	and aircraft	The Park of the	

PA369.2 Primary and secondary batteries Electric lamps, electric light fittings, wiring accessories etc.

Shipbuilding and marine engineering PA380 Wheeled tractor manufacturing PA381 Motor vehicle manufacturing

Trailers, caravans and freight containers PA381 2 Motor cycle, tricycle and pedal cycle manufacturing PA382 Aerospace equipment manufacturing and repairing Locomotives, railway track equipment, railway carriages, PA384

wagons and trams Engineers' small tools and gauges PA390

PA391 Hand tools and implements Cutlery, spoons, forks and plated tableware, etc. PA392 Bolts, nuts, screws, rivets, etc. PA393

PA394 Wire and wire manufactures PA395 Cans and metal boxes Jewellery and precious metals PA396

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

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

Spinning and doubling on the cotton and flax systems PA412 Weaving of cotton, linen and man-made fibres PA413

PA414 Woollen and worsted

PA415 PA416 Rope twine and net

Hosiery and other knitted goods PA417.1 PA417.2 Warp knitting

PA418 Lace PA419 Carpets PA421 Narrow fabrics

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

Textile finishing PA429. Asbestos

Miscellaneous textile industries PA429 2 Leather (tanning and dressing) and fellmongery PA431

PA432 Leather goods PA433 Fur PA441 Weatherproof outerwear

Men's and boys' tailored outerwear Women's and girls' tailored outerwear PA442 DAAA3 Overalls and men's shirts, underwear, etc. PA444 PA445 Dresses, lingerie, infants' wear, etc. PA446 Hats, caps and millinery

Corsets and miscellaneous dress industries PA 140 PA449.2 Gloves

Agricultural machinery (except tractors) PA450 Footwear Metal-working machine tools Refractory goods
Building bricks and non-refractory goods PA461 PA461.2 PA462 Pottery

Compressors and fluid power equipment PA463 Glass Industrial engines PA464 Cement Textile machinery and accessories PA469. Abrasives Construction and earth-moving equipment

PA336 PA469.2 Miscellaneous building materials and mineral products Mechanical handling equipment PA471 Timber Office machinery PA338 Furniture and upholstery PA472 Mining machinery PA339.1

PA473 Bedding, etc. Printing, bookbinding and paper goods machinery PA339.2 Shop and office fitting PA474 Refrigerating machinery, space-heating, ventilating and air-conditioning equipment PA339.3 Wooden containers and baskets PA475

Miscellaneous wood and cork manufactures PA479 PA339.5 Scales and weighing machinery and portable Paper and board

Cardboard boxes, cartons and fibre-board packing cases PA482. Food and drink processing machinery and PA339.7 PA482.2 Packaging products of paper and associated materials packaging and bottling machinery Manufactured stationery PA483 Miscellaneous (non-electrical) machinery PA339.9 PA484. Wallcoverings Industrial (including process) plant and steelwork PA341 PA484.2 Miscellaneous manufactures of paper and board

Ordnance and small arms Printing, publishing of newspapers and periodicals PA485 PA349.1 Ball, roller, plain and other bearings PA489 General printing and publishing PA349.2 Precision chains and other mechanical engineering PA491 Rubber Photographic and document copying equipment Linoleum, plastics floor-covering, leathercloth, etc. PA492 Watches and clocks

Brushes and brooms
Toys, games and children's carriages PA352 Surgical instruments and appliances PA353 PA494.1 PA354 Scientific and industrial instruments and systems PA494.3 Sports equipment PA361 Electrical machinery Miscellaneous stationers' goods PA495 Insulated wires and cables PA362

PA496 Plastics products PA363 Telegraph and telephone apparatus and Musical instruments PA499.1 equipment Miscellaneous manufacturing industries PA499.2 PA364 Radio and electronic components

Construction PA500 PA365. Gramophone records and tape recordings PA601 Gas Broadcast receiving and sound reproducing PA365.2 PA602 Electricity equipment PA603 Water supply

Electronic computers PA367 Radio, radar and electronic capital goods Electrical appliances primarily for domestic use PA368

Summary tables

PA219 ANIMAL AND POULTRY FOODS

PA219

The information in this report relates to establishments classified to the Animal and poultry foods industry, minimum list heading 219 in the Standard Industrial Classification (revised 1968). The activities of the industry include:—

Manufacturing or compounding animal and poultry food, bird and pet foods. The production of grain offals is classified to the Grain milling industry; the production of oilseed cakes and meals is classified to the Vegetable and animal oils and fats industry and the manufacture of animal and poultry medicines, condiments and spices is classified to the Pharmaceutical chemicals and preparations industry.

> 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, 1973–1977
All United Kingdom establishments classified to the industry (a)

	Unit	1973	1974	1975	1976	1977
Enterprises	Number	490	533	523	539	541
Establishments	es monteces b	629	682	679	691	683
Sales of goods produced	£ thousand	889,938	1,138,467	1,164,266	1,521,748	1,882,693
Receipts for work done and industrial	nares to bigo	(b)	(b)	(b)	2,064	1,822
Capital goods produced for establishments' own use		319	491	203	272	305
Non-industrial services rendered	,,	778	1,189	898	1,044	1,322
Goods merchanted or factored	,,	137,145	200,948	197,171	291,067	352,823
Total sales and work done (c)		1,028,179	1,341,095	1,362,539	1,816,196	2,238,964
Increase during the year, work in progress and goods on hand for sale	,,	7,591	6,708	-1,113	8,731	7,124
Gross output		1,035,771	1,347,803	1,361,426	1,824,926	2,246,087
Purchases of materials for use in production, and packaging and fuel	"	730,614	940,999	948,448	1,269,439	1,553,936
Purchases of goods for merchanting or actoring	"	129,409	181,443	176,080	266,037	322,417
Increase during the year, stocks of materials, stores and fuel		29,772	-4,323	-695	22,950	3,948
Cost of industrial services received	"	4,795	7,375	8,937	10,769	13,100
Net output	"	200,725	213,664	227,266	301,631	360,582
Total employment (d)	Thousands	30.1	31.1	30.0	30.0	29.8
Net output per head	£	6,665	6,862	7,563	10,070	12,081
Payments for non-industrial services						
Hire of vehicles, plant and machinery	£ thousand	1,632	1,798	2,664	1,363	2,641
Rents of industrial and commercial buildings	"	(e)	(e)	(e)	607	928
Commercial insurance premiums		1,957	2,295	2,423	3,210	4,134
Bank charges	"	214	605	473	520	342
Other non-industrial services		19,136	30,484	38,504	44,201	56,486
Licensing of motor vehicles		539	644	665	864	912
Rates, excluding water rates	"	1,959	2,645	3,288	3,586	4,231
Gross value added at factor cost		175,288	175,193	179,248	247,281	290,907
Gross value added at factor cost per head	£	5,820	5,627	5,965	8,256	9,747

Including estimates for establishments not making satisfactory returns, non-response and establishments with fewer than 20 persons. Satisfactory returns accounted for 77 per cent of employment within the industry.

Capital expenditure, 1973–1977
All United Kingdom establishments classified to the industry (a)(b)

							£ thousan
Feet Street - Connecting to (1) as	1973	1974	fire and the	1975	1976		1977
Land and buildings			Sucrey of		(3)	43 mages	140 mg (40)
New building work	3,685	5,181		2,387	3,532		7,883
Land and existing buildings							
Acquisitions	724	1,093		557	997		2,431
Disposals	1,471	1,234		971	555		806
Vehicles							
Acquisitions	3,159	4,563		3,995	6,357		8,495
Disposals	857	1,401		1,078	1,366		1,797
Plant and machinery							
Acquisitions	12,020	14,490		13,281	19,052		33,117
Disposals	365	420		504	399		643
Total net capital expenditure	16,896	22,273		17,668	27,618		48,680

⁽a) Including estimates for establishments not making satisfactory returns, non-response and establishments with fewer than 20 persons.

TABLE 3

Stocks and work in progress, 1973—1977 All United Kingdom establishments classified to the industry (a)

							£ thousar
		1973	1974	1975	1976		1977
		63,177 (68	12,00%,73	Increase	182 121	198 280	Value at end of year
Materials, sto	ores and fuel	29,772	-4,323	–695	22,950	3,948	94,034
Work in prog	gress	57	11	98	14	-1	707
Goods on ha	nd for sale	7,534	6,698	-1,211	8,717	7,125	50,771
Total		37,363	2,386	-1,809	31,681	11,071	145,512

⁽a) Including estimates for establishments not making satisfactory returns, non-response and establishments with fewer than 20 persons.

⁽b) Included in sales of goods produced.

⁽c) Details of manufacturers' quarterly sales of principal products are published regularly in Business Monitor PQ219.

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

⁽e) For 1973—1975 rents of industrial and commercial buildings were not recorded separately, but included in hire of vehicles, plant and machinery.

⁽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, 1977
All United Kingdom establishments classified to the industry (a)

Size group	Esta lish-		Employmer	nt		Wages and sa	laries (f)			
(b)	men									
			Total (d)	Opera- tives	Others (e)	Operatives		Others (e)	Others (e)	
			(0)			Total	per head	Total	per head	
905	Nun	nber Number	Number	Number	Number	£ thousand	£	£ thousand	£	
1-10	306	285	1,603)							
11-19	134	122	1,888)		4,563	931,69	0.047		Acquies	
20-49	109	97	3,458)	6,753	4,024	22,603	3,347	14,668	3,645	
50-99	61	46	4,339)							
100-199	48	25	6,386	3,886	2,496	13,303	3,423	9,041	3,622	
200-299	16	15	3,832	2,354	1,477	7,806	3,316	5,637	3,816	
300 and over	9	5	8,340	4,897	3,443	19,465	3,975	16,513	4,796	

Total	683	541	29,846	17,890	11,440	63,177	3,531	45,859	4,009

⁽a) Including estimates for establishments not making satisfactory returns, non-response and establishments with fewer than 20 persons.

Total per head Total per head £ thousand £ t	Total sales and work done (g)	Gross output	Net output	age of talet ea	Gross value added at factor cost	y	Net capital expenditure (h)	Total stocks and work in progress at end of year
886,676 890,072 128,869 11,416 (j) (j) 18,186 51,116 492,248 492,164 73,546 11,517 171,289(j) 9,692(j) 8,371 29,652 270,095 271,187 43,375 11,319 35,450 9,251 6,856 20,013 589,944 592,664 114,792 13,764 84,168 10,092 15,266 44,731		tev access to votosit aniesi	Total		Total			
886,676 890,072 128,869 11,416 (j) (j) 18,186 51,116 492,248 492,164 73,546 11,517 171,289(j) 9,692(j) 8,371 29,652 270,095 271,187 43,375 11,319 35,450 9,251 6,856 20,013 589,944 592,664 114,792 13,764 84,168 10,092 15,266 44,731	£ thousand	£ thousand	£ thousand		£ thousand	to man mo	£ thousand	£ thousand
492,248 492,164 73,546 11,517 171,289(j) 9,692(j) 8,371 29,652 270,095 271,187 43,375 11,319 35,450 9,251 6,856 20,013 589,944 592,664 114,792 13,764 84,168 10,092 15,266 44,731								
492,248 492,164 73,546 11,517 171,289(j) 9,692(j) 8,371 29,652 270,095 271,187 43,375 11,319 35,450 9,251 6,856 20,013 589,944 592,664 114,792 13,764 84,168 10,092 15,266 44,731	886,676	890,072	128,869	11,416	(j)	(j)	18,186	51,116
492,248 492,164 73,546 11,517 171,289(j) 9,692(j) 8,371 29,652 270,095 271,187 43,375 11,319 35,450 9,251 6,856 20,013 589,944 592,664 114,792 13,764 84,168 10,092 15,266 44,731								
270,095 271,187 43,375 11,319 35,450 9,251 6,856 20,013 589,944 592,664 114,792 13,764 84,168 10,092 15,266 44,731	492,248	492,164	73,546	11,517	171,289(j)	9,692(j)	8.371	
589,944 592,664 114,792 13,764 84,168 10,092 15,266 44,731	270,095	271,187	43,375	11,319	35,450	-		
10,002 15,200 444,731	589,944	592,664	114,792	13.764				
				1.01	04,100	10,092	15,266	

2000 000							
2,238,964	2,246,087	360,582	12,081	290,907	9,747	48,680	145,512

⁽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 £ 19,365 thousand.

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

⁽c) The sum of the figures for the size groups may exceed the total for the industry because some enterprises control establishments in more than one size group.

⁽d) Including working proprietors.

⁽e) Administrative, technical and clerical employees.

Sales of goods produced, capital goods manufactured, 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.

Gross value added data relate to establishments employing 1–199.

Regional distribution of employment, net capital expenditure, net output and gross value added at factor cost, 1977 All United Kingdom establishments classified to the industry (a)

Area	Total employmen	at (b)	Net capital expenditure (c)	Net output (d)	Gross value added at factor cost (d)	Gross value factor cost by establis 80 per cen of their en in the region proportion	hments with t or more aployment
							gross value factor cost region	added at
	Thousands	per cent of United Kingdom	£ thousand	per cent of United Kingdom	£ thousand	£ thousand	percentage	9
Standard regions of England								
North	1.2	4.1	1,556	3.2	13,589	11,531	46.8	
Yorkshire and Humberside	2.9	9.7	4,974	10.2	32,659	26,723	41.4	
East Midlands	4.2	14.0	7,368	15.1	71,407	50,599	85.1	
East Anglia	3.1	10.2	7,007	14.4	33,444	27,452	59.5	
South East	3.8	12.6	3,777	7.8	40,694	32,687	38.8	
South West	4.2	14.1	5,212	10.7	52,460	43,857	64.6	
West Midlands	1.5	5.0	2,696	5.5	16,892	13,222	55.0	
North West	3.4	11.3	3,688	7.6	34,581	28,838	53.6	
England	24.2	81.2	36,278	74.5	295,726	234,909	/	/
Wales	0.6	1.9	867	1.8	10,397	9,446	70.9	
Scotland	2.9	9.7	8,384	17.2	31,494	26,394	65.8	
Great Britain	27.7	92.8	45,529	93.5	337,617	270,750		
Northern Ireland	2.1	7.2	3,150	6.5	22,965	20,157	80.1	
United Kingdom	29.8	100.0	48,680	100.0	360,582	290,907	/	

Including estimates for establishments not making satisfactory returns, non-response and establishments with fewer than 20 persons.

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

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

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

Percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments employing 20 or more persons, 1977

Accour	nting year ended	Percentage of total returns received	Percentage of total	al number employed
_	aex.ex	per cent	per cent	on the state of th
1977	April (a)	3.1	1.1	
	May	2.6	1.4	besit led flidelik tell
	June	14.1	8.5	
	July	1.0	0.4	
	August	2.6	0.9	
	September	10.9	12.9	
	October	12.5	8.7	
	November	0.5	0.2	
	December	26.6	40.8	
1978	January	10.9	14.3	
	February	0.5	0.1	
	March (b)	14.6	10.7	

From 6th April.

(b) Including returns made for twelve-month period ended 1st to 5th April 1978.

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	80	1	81	
Female	14	5	19	

Source: Department of Employment

The percentages relate to the numbers employed (excluding working proprietors) in the United Kingdom at end-June, 1976, because 1977 information is not yet available.

Operating ratios, 1977
All United Kingdom establishments classified to the industry (a)

sure Cavarone lected lister to restnat	The ABOS Remuras Seros to apartic Unit			1977		
Gross output per head				toso o£	tactor top -	75,256
Net output per head				e s £		12,081
Gross value added per head				£		9,747
01000 12100 43000 ps. 11000						
Gross value added as a percentage of gross o	output			%		13
Ratio of gross output to stocks						15.4
Wages and salaries as a percentage of gross v	value added			%		37
Ratio of operatives to administrative, techn	ical and clerical					1.6
employees						1.0
Wages and salaries per operative				£		3,531
Wages and salaries per administrative, techn	ical and clerical			. dates		4.000
employee				£		4,009
Net capital expenditure per head				£		1,631
Net capital expenditure as a percentage of gross value added				%	navlaws refrohere enture pribulant	

⁽a) Including estimates for establishments not making satisfactory returns, non-response and establishments employing fewer than 20 persons

Note:

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, 1977.

GENERAL INFORMATION

Changes made for 1977

The Census for 1977 is in line with similar inquiries being conducted in other member countries of the European Economic Communities. There was a small number of changes in the scope of the industry reports compared with 1976.

For the first time in the industry monitors a table has been included on operating ratios, calculated from census measures of output, investment, manpower and labour costs.

Specific changes are explained in the introductions to the industry reports or by footnotes to the tables.

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". f 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 egional 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

ndustrial classification

The United Kingdom Standard Industrial Classification (SIC) was first issued in 1948 and was subsequently revised in 1958 and 1968. It exists to promote uniformity and comparability in the official statistics of the United Kingdom. The general principles followed are those of the International Standard Industrial Classification of all Economic Activities of the United Nations Statistical Office but the United Kingdom SIC reflects the organisation and structure of industry and trade as it exists in the United Kingdom. The SIC is a classification by activity and is not a commodity classification. However, an index of all commodity headings for which sales data are provided in the Quarterly Business Monitors, is published in Business Monitor PQ 1000.

Statistical unit

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 he 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 separate 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 or addresses in more than one of the countries of the United Kingdom.

Further information about the statistical unit appeared in an article "The statistical unit in business inquiries" in Statistical News No 13 May 1971.

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. For these purposes an enterprise group may be 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 Companies Registration Office and the Department of Employment, The 1973 Finance Act allows HM Customs and Excise to pass to the BSO lists of businesses registered for VAT. Information from all these sources is used to improve the register, and where necessary, details are sought directly from new businesses. Units which cease to trade are removed from the live register.

Increasing use of the information obtained from the Department of Employment, HM Customs and Excise and BSO inquiries has led to improvements on the register, which in turn enabled the BSO to produce better estimates, particularly of numbers of smaller establishments and enterprises.

Coverage

A return was required in the 1977 Census from each establishment with 20 or more employees. Each establishment is classified to an industry, as defined in the SIC, whose principal products form the major part of the establishment's sales.

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 number of persons on the payroll on average during the year of return, whether full-time or part-time employees. 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. 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 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 etcl and the cost of industrial services received, and where applicable, duties atc.

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

stomers; and of food, etc for any canteen covered by the stablishment's return. Transfers of goods to the establishment om another department of the same firm not covered by the stablishment's return are included at a cost corresponding to the stimated selling value recorded by the other department. Amounts ayable to transport firms or credited to the firm's own transport epartment for delivery of materials are excluded, as are all irchases of machinery and plant charged to capital account. urchases of goods for merchanting or factoring have been plected 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 aturned goods or packaging material returned to suppliers and any trade discounts are excluded. Materials purchased duty-paid are cluded at their duty-paid value, less any drawback, rebate, etc. he cost of transport is included only if it is included with the urchase price in the firm's accounts. Imported goods are included at their full delivered cost. If in the firm's accounts the transport omdocks or airport is not included in the cost of goods purchased, the cost is entered at cif plus duty (if applicable). Leasing, nting 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 overed by the inquiry. Sales of goods made for these establishments ov outworkers or by other establishments from materials given out them and sales of waste products are included. New building vork and machinery or other capital items produced by establishents for hiring out or leasing are regarded as sales, the value cluded 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 then the goods were manufactured. Goods produced in one stablishment and transferred either to ancillary departments not ngaged in production for which there are separate accounts, or to other establishment of the same firm not covered by the return, are treated as sales by the producing establishment and valued as ar as possible as if they had been sold to an independent purchaser. oods transferred to wholesale or retail selling organisations, for ich separate accounts are kept are valued on the same basis.

The value shown for sales in 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 lobbing work. Other activities within this heading include exploration work, research and development, glass cutting and dressing and planing of timber.

ndustrial services rendered include repairs and maintenance, instalation work, and technical research and studies for other organisations.

Capital goods produced for establishments' own use

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

on-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.

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orchanted 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, together with a margin of overhead costs and profits. 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, commissions and holiday pay, 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 (and/or earnings related basic contributions under the Social Security Pensions Act, 1975) and 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 the industry, including exempted 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 practise with regard to stock valuation, may affect comparability in some respects.

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