PA214

1977

(NAZ(MAZS)

Business Statistics Office

Business Monitor

Report on the Census of Production

Bacon curing, meat and fish products





Special Note for Purchasers

Commencing with the 1971 Census, the Census of Production reports are being numbered in a uniform series embracing all industrial inquiries in the Business Monitor series. These Business Monitors have a code P (for production) followed first by A (indicating that it is an annual series) or Q (quarterly) or M (monthly): and then by a number indicating the minimum list heading, or sub-division of a minimum list heading, of the Standard Industrial Classification (revised 1968).

The Census of Production (PA) reports are available on standing order (details on application to Her Majesty's Stationery Office, P.O. Box 569, London SE1 9NH. Telephone 01-928 6977), although they are not included in the global subscription arrangements for the Business Monitor series.

Government Statistical Service

A service of statistical information and advice is provided to the Government by specialist staffs employed in the statistics division of individual Departments. Statistics are made generally available through their publications and further information and advice on them can be obtained from the Departments concerned.

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PA214

Business Monitor

A publication of the Government Statistical Service

Report on the Census of Production 1977

Bacon curing, meat and fish products

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

Radio, radar and electronic capital goods Electrical appliances primarily for domestic use

PA367 PA368

List of	Industry Reports, etc.		
PA1001	Introductory notes	PA369.1	Electrical equipment for motor vehicles, cycles
PA101 PA102	Coal mining Stand glate querrying and mining	PA360 2	and aircraft Primary and secondary batteries
PA103	Stone and slate quarrying and mining Chalk, clay, sand and gravel extraction		Electric lamps, electric light fittings, wiring
PA104	Petroleum and natural gas	norten	accessories, etc.
PA109	Miscellaneous mining and quarrying	PA370	Shipbuilding and marine engineering
PA211 PA212	Grain milling	PA380	Wheeled tractor manufacturing Motor vehicle manufacturing
PA212	Bread and flour confectionery Biscuits		Trailers, caravans and freight containers
PA214	Bacon curing, meat and fish products	PA382	Motor cycle, tricycle and pedal cycle manufacturing
PA215	Milk and milk products	PA383	Aerospace equipment manufacturing and repairing
PA216	Sugar	PA384	Locomotives, railway track equipment, railway carriage
PA217 PA218	Cocoa, chocolate and sugar confectionery Fruit and vegetable products	PA390	wagons and trams 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	PA393 PA394	Bolts, nuts, screws, rivets, etc. Wire and wire manufactures
PA231	Starch and miscellaneous foods Brewing and malting	PA395	Cans and metal boxes
PA232	Soft drinks	PA396	Jewellery and precious metals
	Spirit distilling and compounding		Metal furniture
	British wines, cider and perry		Drop forgings, etc.
PA240 PA261	Tobacco Coke ovens and manufactured fuel		Metal hollow-ware Miscellaneous metal manufacture
PA262	Mineral oil refining	PA411	Production of man-made fibres
PA263	Lubricating oils and greases	PA412	Spinning and doubling on the cotton and flax systems
	Inorganic chemicals	PA413	Weaving of cotton, linen and man-made fibres
	Organic chemicals	PA414 PA415	Woollen and worsted Jute
PA271.3	Miscellaneous chemicals Pharmaceutical chemicals and preparations	PA416	Rope, twine and net
PA273	Toilet preparations		Hosiery and other knitted goods
PA274	Paint		Warp knitting
PA275	Soap and detergents	PA418	Lace
PA276	Synthetic resins and plastics materials and synthetic rubber	PA419 PA421	Carpets Narrow fabrics
PA277	Dyestuffs and pigments		Household textiles and handkerchiefs
PA278	Fertilizers	PA422.2	Canvas goods and sacks and other made-up textiles
PA279.1		PA423	Textile finishing
	Formulated adhesives, gelatine, etc. Explosives and fireworks		Asbestos Miscellaneous textile industries
	Formulated pesticides, etc.	PA431	Leather (tanning and dressing) and fellmongery
	Printing ink	PA432	Leather goods
	Surgical bandages, etc.	PA433	Fur
	Photographic chemical materials	PA441 PA442	Weatherproof outerwear
PA311 PA312	Iron and steel (general) Steel tubes	PA442 PA443	Men's and boys' tailored outerwear Women's and girls' tailored outerwear
PA313	Iron castings, etc.	PA444	Overalls and men's shirts, underwear, etc.
PA321	Aluminium and aluminium alloys	PA445	Dresses, lingerie, infants' wear, etc.
PA322	Copper, brass and other copper alloys	PA446	Hats, caps and millinery
PA323 PA331	Miscellaneous base metals Agricultural machinery (except tractors)	PA449.1 PA449.2	Cloves
PA332	Metal-working machine tools	PA450	Footwear
PA333.1	Pumps		Refractory goods
PA333.2	Valves	PA461.2	Building bricks and non-refractory goods
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PA336	Construction and earth-moving equipment		Abrasives
PA337	Mechanical handling equipment		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 Refrigerating machinery, space-heating,	PA473 PA474	Bedding, etc. Shop and office fitting
1 4000.0	ventilating and air-conditioning equipment	PA475	Wooden containers and baskets
PA339.5	Scales and weighing machinery and portable	PA479	Miscellaneous wood and cork manufactures
D 4 000 7	power tools	PA481	Paper and board
PA339.7	Food and drink processing machinery and		Cardboard boxes, cartons and fibre-board packing cases Packaging products of paper and associated materials
PA339.9	packaging and bottling machinery Miscellaneous (non-electrical) machinery	PA483	Manufactured stationery
PA341	Industrial (including process) plant and steelwork		Wallcoverings
PA342	Ordnance and small arms		Miscellaneous manufactures of paper and board
	Ball, roller, plain and other bearings	PA485	Printing, publishing of newspapers and periodicals
PA349.2 PA351	Precision chains and other mechanical engineering Photographic and document copying equipment	PA489 PA491	General printing and publishing Rubber
PA352	Watches and clocks	PA491	Linoleum, plastics floor-covering, leathercloth, etc.
PA353	Surgical instruments and appliances	PA493	Brushes and brooms
PA354	Scientific and industrial instruments and systems	PA494.1	
PA361 PA362	Electrical machinery Insulated wires and cables	PA494.3 PA495	Sports equipment Miscellaneous stationers' goods
PA363	Telegraph and telephone apparatus and	PA495 PA496	Plastics products
	equipment	PA499.1	Musical instruments
PA364	Radio and electronic components		Miscellaneous manufacturing industries
PA365.1		PA500	Construction
1 A305.2	Broadcast receiving and sound reproducing equipment	PA601 PA602	Gas Electricity
PA366	Electronic computers	PA603	Water supply

PA214 BACON CURING, MEAT AND FISH PRODUCTS

The information in this report relates to establishments classified to the Bacon curing, meat and fish products industry, minimum list heading 214 in the Standard Industrial Classification (revised 1968). The activities of the industry include:—

The quick freezing of meat and meat products including poultry, and fish and fish products; curing bacon and ham, canning and otherwise preserving meat, poultry and fish, preparation of oven ready poultry, and making sausages, meat pasties, pies and puddings, meat extracts and essences, meat and fish pastes and lard. Production at distributive establishments is excluded.

> 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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PA214 PRODUCTS CURISMO, MEAT AND FISH PRODUCTS

Output and costs, 1973–1977
All United Kingdom establishments classified to the industry (a)

	Unit	1973	1974	1975	1976	1977
Enterprises	Number	1,282	1,450	1,500	1,592	1,595
Establishments	Maseria and Janga	1,473	1,657	1,693	1,780	1,792
Sales of goods produced	£ thousand	1,180,521	1,451,592	1,632,300	2,087,788	2,449,806
Receipts for work done and industrial services rendered	real to bear, see a control.	(b)	(b)	(b)	2,279	4,103
Capital goods produced for establishments' own use	"	1,534	651	1,103	555	950
Non-industrial services rendered	"	3,192	4,347	6,851	6,003	5,144
Goods merchanted or factored	"	79,177	132,311	137,881	162,735	203,317
Total sales and work done (c)	"	1,264,423	1,588,901	1,778,136	2,259,360	2,663,320
Increase during the year, work in progress and goods on hand for sale	"	13,934	8,238	9,041	27,064	42,284
Gross output		1,278,357	1,597,139	1,787,177	2,286,424	2,705,604
Purchases of materials for use in production, and packaging and fuel	,,	880,500	1,072,269	1,163,806	1,489,311	1,772,249
Purchases of goods for merchanting or actoring	,,	71,599	116,245	112,720	135,837	184,479
ncrease during the year, stocks of materials, stores and fuel	"	10,293	6,490	981	12,750	10,497
Cost of industrial services received	"	9,170	17,299	18,224	24,155	31,489
evies payable under Bacon curing ndustry Stabilisation Scheme	"	756	455	357	1,219	2,213
ess allowances receivable from Bacon curing industry Stabilisation Scheme and fatstock guarantee						
scheme		3,645	1,059	389	928	2,572
Net output	"	330,269	398,422	493,440	649,580	728,243
Fotal employment (d)	Thousands	113.7	121.1	120.2	127.4	128.7
Net output per head	£	2,906	3,290	4,104	5,097	5,660
Payments for non-industrial services						
Rents, hire of plant and machinery	£ thousand	7,370	7,415	10,776	5,148	10,361
Rents of industrial and commercial buildings		(e)	(e)	(e)	5,481	7,339
Commercial insurance premiums	,,	2,756	3,562	4,858	5,493	6,438
Bank charges	"	539	885	603	679	865
Other non-industrial services		32,113	43,246	63,247	88,858	107,348
licensing of motor vehicles	s r is equic	840	888	1,239	1,322	1,729
Rates, excluding water rates		2,728	3,994	5,587	6,265	6,972
Gross value added at factor cost	olevezoro bina n	283,924	338,432	407,132	536,334	587,191
Gross value added at factor cost per head	£	2,498	2,795	3,386	4,208	4,564

⁽a) Including estimates for establishments not making satisfactory returns, non-response and establishments with fewer than 20 persons. Satisfactory returns accounted for 83 per cent of employment within the industry.

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

						£ thousand
No. 2 Property of	1973	1974	1975	1976	1977	and and
Land and buildings				180	eanem	(d)
New building work	8,616	11,240	12,270	13,596	17,285	
Land and existing buildings						
Acquisitions	2,504	1,550	2,341	3,073	4,235	
Disposals	1,394	1,124	769	1,427	3,550	
Vehicles						
Acquisitions	5,085	7,688	7,671	10,022	14,098	
Disposals	1,225	2,149	2,427	2,395	2,901	
Plant and machinery						
Acquisitions	18,024	23,240	27,469	36,880	48,591	
Disposals	695	704	1,292	1,292	1,765	
Total net capital expenditure	30,915	39,741	45,263	58,457	75,993	

⁽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)

							£ thousand
		1973	1974	1975	1976		977
		203 218,88	22,817 019,52	Increase	833,833	8.792 C91.8	Value at end of year
				econ sylvatoridates	grillion son un	erndeltelszeicher versens	responsivent (a)
Materials, stores and	d fuel	10,293	6,490	981	12,750	10,497	75,344
Work in progress		3,964	1,334	4,077	11,019	11,198	57,266
Goods on hand for	sale	9,969	6,904	4,964	16,045	31,086	115,494
Total		24,226	14,728	10,022	39,815	52,781	248,104

⁽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 PQ214.

⁽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 (b)	Estab- lish- ments	Enter- prises (c)	Employmen	t		Wages and sa	alaries (f)		Sud ling.
			Total (d)	Opera- tives	Others (e)	Operatives Others (e)			niblius kes
			(a)			Total	per head	Total	per head
	Number	Number	Number	Number	Number	£ thousand	£	£ thousand	£
1-10	866	841	4,681)						
11–19	329	321	4,661)						
20-49	266	262	8,138)	21,259	3,561	46,396	2,182	11,630	3,266
50-99	120	113	8,223)						
100-199	89	73	12,555	10,528	2,001	23,206	2,204	6,831	3,414
200-299	39	27	9,712	8,280	1,422	19,343	2,336	4,480	3,151
300-399	27	22	9,432	7,722	1,709	18,079	2,341	6,128	3,586
400-499	10	9	4,459	3,748	709	9,083	2,423	2,489	3,510
500-749	21	20	12,478	10,203	2,275	25,041	2,454	8,155	3,585
750-999	7	6	6,137	5,496	641	12,653	2,302	2,135	3,331
,000–1,499	7	5	8,916	7,121	1,794	19,657	2,760	6,443	3,591
,500—1,999	6	6	9,748	8,016	1,732	21,680	2,705	5,927	3,422
2,000 and over	5	4	29,518	22,551	6,967	61,374	2,722	25,377	3,642

Total	1,792	1,595	128,658	104,924	22,811	256,513	2,445	79,595	3,489

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

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
than of total actions when actions action action action actions.		Total	per head	Total	per head		
£ thousand	£ thousand	£ thousand	f for more veg befind modern X	£ thousand	to inso two	£ thousand	£ thousand
Auman.							
596,865	608,729	122,659	4,772	(j)	(j)	15,790	43,079
The second							Yorkshire and
	200 20	500,011	0.21	470 000(1)	15.2	37.16	Hornisansidee
320,556	322,172	63,348	5,046	152,382(j)	3,983(j)	7,997	18,643
252,453	253,379	51,255	5,278	41,741	4,298	4,111	13,726
204,734	206,537	49,529	5,251	40,972	4,344	5,445	15,302
84,808	85,704	19,412	4,353	16,273	3,649	2,028	5,657
261,956	264,695	83,705	6,708	73,937	5,925	14,401	20,222
91,408	93,294	27,350	4,457	24,433	3,981	2,338	8,856
163,170	164,206	50,531	5,667	42,994	4,822	4,279	12,176
172,629	173,746	59,599	6,114	52,794	5,416	6,956	13,857
514,741	533,142	200,855	6,804	141,665	4,799	12,647	96,586

200	
(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 £45,672 thousand.

75,993

248,104

2,663,320

2,705,604

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.

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

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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 employment	(b)	Net capital expenditure	(c)	Net output (d)	Gross value added at factor cost (d)	Gross value added at factor cost returned by establishments with 80 per cent or more of their employment	
							in the region as a proportion of total	
							gross value added at factor cost in the region	
	Thousands	per cent of United Kingdom	£ thousand	per cent of United Kingdom	£ thousand	£ thousand	percentage	
Standard regions of England								
910,00	000,00	(1)	10/31	4,772 7028	838	129 18122	808 3788 850	
North	5.1	4.0	2,191	3.0	26,982	23,045	48.8	
Yorkshire and Humberside	19.6	15.2	9,389	12.6	118,382	79,862	50.2	
East Midlands	10.8	8.4	6,852	7.5	50,798	41,675	63.8	
East Anglia	13.9	10.8	9,238	12.4	89,899	72,988	47.6	
South East	19.3	15.0	9,932	13.4	125,095	103,347	45.1	
South West	11.2	8.7	5,658	7.6	60,135	51,578	60.4	
West Midlands	8.1	6.3	6,169	8.3	54,250	47,514	77.9	
North West	12.9	10.0	5,655	7.6	63,797	50,430	32.5	
England	100.9	78.4	55,085	72.5	589,339	470,439	OF LESI	
Wales	2.3	1.8	1,690	1.7	9,836	7,802	31.2	
Scotland	20.5	15.9	16,253	21.9	100,596	85,520	75.5	
Great Britain	123.7	96.2	73,028	96.0	699,771	563,760		
Northern Ireland	4.9	3.8	2,965	4.0	28,472	23,430	77.0	
United Kingdom	128.7	100.0	75,993	100.0	728,243	587,191		

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

(b) 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.

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

Accoun	ting year ended	Percentage of tota	I returns received	Percentage of t	total number employed
_	21.029	per cent	with the large	per cent	personal in beautiful such to exo
1977	April (a)	5.6		6.7	
	May	1.7		2.1	
	June Age A	4.7		1.6	
	July	3.7		3.2	
	August	3.2		1.6	o ego maried it is notice enwise
	September	7.4		6.6	
	October	6.6		10.3	
	November	1.5		0.3	
	December	34.4		40.4	
1978	January	9.1		6.6	
	February	3.9		2.4	are a suppled to the set the
	March (b)	18.2		18.1	

From 6th April.

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

TABLE 7

ercentage 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	52	2	54
Female	30	16	46

Source: Department of Employment

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

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

Net capital expenditure per head			£	590		
Wages and salaries per administrative, technical and clerical employee			£	3,489		
Wages and salaries per operative				£	2,445	
employees	, 100.11100, 0110 01011				4.6	
Ratio of operatives to administrative, technical and clerical						
rages and salaries as a percentage of	gross value adda				10,862	
Nages and salaries as a percentage of			%	57		
Ratio of gross output to stocks					10.9	
					100	
Gross value added as a percentage of gross output				%	22	
Gross value added per head				£	4,564	
Net output per head				£	5,660	
				8.8	5 000	
Gross output per head				£	21,029	
			1977			

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

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These notes give the main information needed for interpreting the figures in the industry Business Monitors: more detailed oformation about the census is given in a separate Business Monitor - PA 1001 (Introductory Notes) of the Report on the Tensus of Production, 1977.

SENERAL INFORMATION

hanges made for 1977

the Census for 1977 is in line with similar inquiries being inducted in other member countries of the European Economic ammunities. 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 cluded on operating ratios, calculated from census measures of utput, investment, manpower and labour costs.

erific changes are explained in the introductions to the industry ports or by footnotes to the tables.

Suppression of information relating to individual undertakings ction 9(5)(b) of the Statistics of Trade Act 1947 states -The following provisions shall have effect with respect to any eport, summary or other communication to the public of formation 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". a figure involved disclosure the contributor concerned was netimes asked to give permission for its publication. In the ainrity of cases permission was given. When it was refused and where contributors were not approached the figure has been opressed, either by combining it with other figures, or as in the ional tables, by omitting the figure altogether.

The following symbols are used throughout the PA series of usiness 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.

revised

Figures in the tables have, where necessary, been rounded to the earest 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 rst 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 llowed are those of the International Standard Industrial lassification of all Economic Activities of the United Nations Statistical Office but the United Kingdom SIC reflects the ganisation and structure of industry and trade as it exists in the ited Kingdom. The SIC is a classification by activity and is ot a commodity classification. However, an index of all commodity eadings for which sales data are provided in the Quarterly Business onitors, is published in Business Monitor PQ 1000.

he statistical unit for the purpose of the Census is the establishment ich is defined in the SIC as the smallest unit which can provide e 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 etc.

Net output per head

The figures of net output per head are derived by dividing the net output by the average number of persons employed (full and part-time) on all activities covered by the returns, including operatives, administrative, technical and clerical employees and working proprietors, but excluding outworkers.

Gross value added at factor cost

Gross value added at factor cost is calculated by deducting from net output the cost of non-industrial services eg rent of buildings, hire of plant, machinery and vehicles (excluding vehicles hired with drivers), commercial insurance premiums, bank charges and amounts paid for professional services, post office services, transport (within the United Kingdom) and advertising, rates (excluding water rates) and the cost of licensing motor vehicles. This estimate of gross value added approaches more closely than census net output to the definition of net output or value added in national accounts statistics.

Gross value added at factor cost per head

The figures of gross value added at factor cost per head are derived by dividing the gross value added by the average number of persons employed (full and part-time) on all activities covered by the returns, including operatives, administrative, technical and clerical employees and working proprietors, but excluding outworkers.

Purchases

Purchases include the cost of raw materials, components, semi-manufactured goods and workshop materials; of replacement parts and consumable tools not charged to capital account; of packaging materials of all types; of stationery and printed matter; of fuel, electricity and water; of materials to be used by the establishment or given out to other establishments for the production of machinery or other capital items for the establishment's own use; of materials for use by the establishment when working on goods supplied by

tomers; and of food, etc for any canteen covered by the stablishment's return. Transfers of goods to the establishment m another department of the same firm not covered by the tablishment's return are included at a cost corresponding to the imated selling value recorded by the other department. Amounts vable to transport firms or credited to the firm's own transport partment for delivery of materials are excluded, as are all chases of machinery and plant charged to capital account. rchases of goods for merchanting or factoring have been ected separately since 1973. The values shown exclude VAT. ev include, in addition to the actual purchase price, the value packaging material charged to the establishment. The value of rned goods or packaging material returned to suppliers and any ade discounts are excluded. Materials purchased duty-paid are cluded at their duty-paid value, less any drawback, rebate, etc. ne cost of transport is included only if it is included with the chase price in the firm's accounts. Imported goods are included their full delivered cost. If in the firm's accounts the transport ndocks or airport is not included in the cost of goods purchased. cost is entered at cif plus duty (if applicable). Leasing, ting and hire purchase charges are excluded.

Sales of goods produced

ales for the purposes of the annual censuses means deliveries on ale of goods made by establishments in the United Kingdom red by the inquiry. Sales of goods made for these establishments outworkers or by other establishments from materials given out them and sales of waste products are included. New building ork and machinery or other capital items produced by establishnts for hiring out or leasing are regarded as sales, the value cluded in the return being that adopted in the establishments' pital asset accounts. Forward sales and canteen takings are excluded. sales in the period of the inquiry are included irrespective of en the goods were manufactured. Goods produced in one tablishment and transferred either to ancillary departments not ngaged in production for which there are separate accounts, or to ther establishment of the same firm not covered by the return, treated as sales by the producing establishment and valued as as possible as if they had been sold to an independent purchaser. ods transferred to wholesale or retail selling organisations, for nich 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 ex-works or delivered basis, after any trade discounts and agents' commissions have been deducted. The cost of packing materials less allowance for returnable cases is included. In industries where products attract Excise Duty the value stated is usually inclusive of duty if sold duty-paid and exclusive of duty if sold in bond or exported.

Receipts for work done and industrial services rendered

Figures for work done represent the amount charged for work carried out on materials supplied by a customer and include repair work. Within certain industries this heading covers a wide variety of activities, for example, within the food sector - butter packed on commission; within the textile industries - making up of garments, fur dressing and textile finishing; within printing and publishing - preparatory work on type-setting, block making and binding. Work done is also significant in the electrical machinery and heavy engineering industries, covering erection, installation and repair and obbing 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 establishments' own use

his includes all work of a capital nature carried out during the ^{Bar}by the establishments' own staff for their own use.

Non-industrial services rendered

his includes rents received for commercial and industrial buildings, mounts charged for hiring out plant, machinery and vehicles and ther goods and amounts charged to other organisations for the rovision of transport. It also includes amounts received for the ight to use patents, trademarks, copyrights etc, manufacturing and quarrying rights and technical "know-how" and revenue from uch staff facilities as canteens.

oods 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, 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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