**Business Statistics Office** 

## **Business Monitor**

Report on the Census of Production

Starch and miscellaneous foods

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## PA229.2 Business Monitor

A publication of the Government Statistical Service

Report on the Census of Production 1978

# Starch and miscellaneous 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

Grain milling

Biscuits

Sugar

PA229 1 Margarine

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

Bread and flour confectionery

Fruit and vegetable products

Vegetable and animal oils and fats

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

Organic chemicals

Toilet preparations

Soap and detergents

Dvestuffs and pigments

PA279.2 Formulated adhesives, gelatine, etc.

Iron and steel (general)

Miscellaneous base metals

Metal-working machine tools

PA333.3 Compressors and fluid power equipment

Industrial engines
Textile machinery and accessories

Mechanical handling equipment

PA339.3 Refrigerating machinery, space-heating,

Ordnance and small arms

Watches and clocks

Electrical machinery

Electronic computers

equipment

PA339.5 Scales and weighing machinery and portable

Photographic chemical materials

Aluminium and aluminium alloys

Copper, brass and other copper alloys

Agricultural machinery (except tractors)

Construction and earth-moving equipment

PA339.2 Printing, bookbinding and paper goods machinery

ventilating and air-conditioning equipment

Food and drink processing machinery and

packaging and bottling machinery
PA339.9 Miscellaneous (non-electrical) machinery
PA341 Industrial (including process) plant and steelwork

PA349.1 Ball, roller, plain and other bearings PA349.2 Precision chains and other mechanical engineering

Surgical instruments and appliances

Radio and electronic components Gramophone records and tape recordings

Insulated wires and cables
Telegraph and telephone apparatus and

Photographic and document copying equipment

Scientific and industrial instruments and systems

synthetic rubber

PA279.3 Explosives and fireworks

PA279.6 Surgical bandages, etc.

Steel tubes

PA279.4 Formulated pesticides, etc.

Iron castings, etc

Office machinery

Mining machinery

power tools

Fertilizers

Polishes

PA279.5 Printing ink

PA271.3 Miscellaneous chemicals

PA239.1 Spirit distilling and compounding

Lubricating oils and greases Inorganic chemicals

Soft drinks

Tobacco

Paint

PA 1001

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PA333.2 Valves

PA369.1	Electrical equipment for motor vehicles, cycles	

PA369.2 Primary and secondary batteries
PA369.4 Electric lamps, electric light fittings, wiring

accessories, etc.

Shipbuilding and marine engineering Wheeled tractor manufacturing PA380

PA381 1 Motor vehicle manufacturing

PA381.2 Trailers, caravans and freight containers
PA382 Motor cycle, tricycle and pedal cycle manufacturing Aerospace equipment manufacturing and repairing PA383

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Engineers' small tools and gauges PA390

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Bolts, nuts, screws, rivets, etc. PA391 PA392

PA393

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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 Weaving of cotton, linen and man-made fibres PA412 PA413

Woollen and worsted

PA415

Rope, twine and net PA416

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PA417.2 Warp knitting

PA418 PA419 Lace

Carpets

Narrow fabrics

Household textiles and handkerchiefs PA422.1

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

PA429.1 Ashestos

PA429.2 Miscellaneous textile industries

Leather (tanning and dressing) and fellmongery

PA432 Leather goods

PA433

Weatherproof outerwear PA441

PA442 Men's and boys' tailored outerwear

Women's and girls' tailored outerwear Overalls and men's shirts, underwear, etc. PA443 PA444

PA445 Dresses, lingerie, infants' wear, etc.

PA446 Hats, caps and millinery

Corsets and miscellaneous dress industries PA449.1

PA449.2 Gloves

PA450 Footwear

PA461.1 Refractory goods

PA461.2 Building bricks and non-refractory goods

PA463 Glass

PA464 Cement

PA469.1 Abrasives

PA469.2 Miscellaneous building materials and mineral products

PA471 Timber

PA472 Furniture and upholstery

Bedding, etc. Shop and office fitting PA473 PA474

Wooden containers and baskets PA475

Miscellaneous wood and cork manufactures PA479

PA481 Paper and board

Cardboard boxes, cartons and fibre-board packing cases PA482 1

PA482.2 Packaging products of paper and associated materials

PA483 Manufactured stationery

PA484 1 Wallcoverings

PA484.2 Miscellaneous manufactures of paper and board Printing, publishing of newspapers and periodicals

General printing and publishing PA489

PA491 Rubber

Linoleum, plastics floor-covering, leathercloth, etc.

PA493 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 PA601 Gas

PA365.2 Broadcast receiving and sound reproducing PA602

Electricity Water supply PA603

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

PA1002 Summary tables

## PA229.2 STARCH AND MISCELLANEOUS FOODS

The information in this report relates to establishments classified to the Starch and miscellaneous foods industry, minimum list heading 229.2 the Standard Industrial Classification (revised 1968). The activities of the industry include:-

Manufacturing starch, starch products, self-raising flour (not at milling establishments), cornflour, glucose, blancmange and custard powders, cake mixtures, macaroni, spaghetti, yeast, coffee extracts and essences, and mustard. Blending flour, grinding pepper and spices, shelling and grinding nuts, tea blending, coffee roasting and blending, etc., are included.

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

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Output and costs, 1974–1978
All United Kingdom establishments classified to the industry (a)

	Unit	1974	1975	1976	1977	1978
Enterprises	Number	288	286	302	296	301
stablishments	,,	332	329	343	337	346
ales of goods produced	£ thousand	614,007	720,002	978,690	1,292,566	1,312,725
Receipts for work done and industrial ervices rendered	,,	(b)	(b)	2,324	1,112	2,047
apital goods produced for establish- nents' own use	,,	360	508	573	650	747
Ion-industrial services rendered	"	1,688	1,470	2,241	1,849	2,372
Goods merchanted or factored	"	61,875	84,191	100,293	109,743	120,422
Total sales and work done (c)	"	677,931	806,171	1,084,122	1,405,919	1,438,314
ncrease during the year, work in rogress and goods on hand for sale	"	13,077	3,158	7,705	34,028	-9,497
Gross output	"	691,008	809,328	1,091,827	1,439,947	1,428,817
Purchases of materials for use in pro- duction, and packaging and fuel	"	428,153	481,533	712,636	951,877	871,719
Purchases of goods for merchanting or actoring	"	52,469	73,810	82,166	93,883	105,314
ncrease during the year, stocks of materials, stores and fuel	"	17,739	-7,632	32,319	37,856	-25,421
Cost of industrial services received	"	7,407	8,152	10,052	15,772	13,394
Net output	"	220,717	238,201	319,291	416,270	412,969
Total employment (d)	Thousands	34.6	33.4	36.1	34.6	34.0
Net output per head	£	6,374	7,133	8,840	12,045	12,160
Payments for non-industrial services						
Hire of vehicles, plant and machinery	£ thousand	3,685	3,731	2,186	4,166	3,709
Rents of industrial and commercial buildings	"	(e)	(e)	2,139	4,042	4,659
Commercial insurance premiums	"	1,694	2,076	2,578	3,098	3,420
Bank charges		290	220	249	343	417
Other non-industrial services		27,532	36,812	40,573	53,413	71,540
Licensing of motor vehicles	"	192	232	279	337	320
Rates, excluding water rates		2,727	3,919	4,567	4,872	4,590
Gross value added at factor cost	" .	184,598	191,210	266,720	345,999	324,315
Gross value added at factor cost per head	£	5,331	5,726	7,385	10,011	9,550

<sup>(</sup>a) Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census. Satisfactory returns accounted for 83 per cent of employment within the industry.

Capital expenditure, 1974—1978
All United Kingdom establishments classified to the industry (a)(b)

					£ thousand
- Chief the Charles of the Charles	1974	1975	1976	1977	1978
Land and buildings					orthe or
New building work	2,064	8,386	2,514	3,550	3,854
Land and existing buildings					
Acquisitions	2,571	490	659	617	695
Disposals	626	230	955	466	279
Vehicles					
Acquisitions	1,356	1,777	1,891	2,525	2,789
Disposals	728	592	588	645	857
Plant and machinery					
Acquisitions	14,068	15,700	23,757	28,033	31,270
Disposals	1,268	510	1,123	423	755
Total net capital expenditure	17,437	25,021	26,155	33,192	36,717

<sup>(</sup>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, 1974—1978 All United Kingdom establishments classified to the industry (a)

	1974	1975	1976	1977		1978
	A13,3878.15	2000	Increase	esett con	108 107 958	Value at end of year
Materials, stores and fuel	17,739	-7,632	32,319	37,856	-25,421	145,589
Nork in progress	1,251	432	2,415	4,395	-3,736	14,566
Goods on hand for sale	11,826	2,726	5,291	29,633	-5,761	77,400
Total	30,817	-4,475	40,024	71,884	-34,918	237,556

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

<sup>(</sup>b) Included in sales of goods produced.

<sup>(</sup>c) Details of manufacturers' quarterly sales of principal products are published regularly in Business Monitor PQ229.2

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

<sup>(</sup>e) For 1974 and 1975 rents of industrial and commercial buildings were not recorded separately, but included in hire of vehicles, plant and machinery.

<sup>(</sup>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, 1978
All United Kingdom establishments classified to the industry (a)

Size group (b)	Estab- lish- ments	Enter- prises (c)	Employment			Wages and salaries (f)				
			Total	Opera-	Others	Operatives		Others (e)	Others (e)	
			(d)	tives	(e)	Total	per head	Total	per head	
	Number	Number	Number	Number	Number	£ thousand	£	£ thousand	£	
1-10	162	158	814)							
11–19	58	57	846)	3,438	1,364	9,413	2,738	5,584	4,094	
20-49	41	40	1,349)	3,430	1,304	3,410	2,700	0,50	1,004	
50-99	29	26	1,961)							
100-199	11	11	1,569	1,232	333	3,375	2,739	1,419	4,262	
200-299	12	11	2,857	1,953	904	6,486	3,321	3,611	3,995	
300-399	10	9	3,402	2,366	1,036	7,466	3,155	4,087	3,945	
400-499	3	3	1,360	921	439	3,025	3,284	1,665	3,793	
500-749	11	11	6,495	4,683	1,812	16,676	3,561	9,127	5,037	
750-999	3	3	2,598	2,148	450	6,125	2,851	1,845	4,100	
,000–1,499	3	3	3,437	2,899	538	8,910	3,073	2,630	4,888	
,500 and over	3	3	7,272	5,549	1,723	16,006	2,884	7,928	4,601	

Total	346	301	33,960	25,189	8,599	77,480	3,076	37,897	4,407

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

rotal sales and work done (g)	Gross output	Net output		Gross value added at factor cost		Net capital expenditure (h)	Total stocks and work in progress at end of year	
		Total	per head	Total	per head			
£ thousand	£ thousand	£ thousand	£	£ thousand	£	£ thousand	£ thousand	
169,762	168,975	43,907	8,834	(j)	(j)	4,012	25,434	
57,693	57,026	15,956	10,170	43,489(j)	6,651(j)	1,269	11,087	
124,457	124,849	44,884	15,710	38,228	13,380	2,877	21,202	
174,249	171,009	45,081	13,251	38,095	11,198	3,675	20,209	
77,935	76,780	17,998	13,234	16,747	12,314	1,362	11,049	
222,396	223,921	79,905	12,303	65,692	10,114	12,315	32,344	
73,702	72,569	17,798	6,851	14,344	5,521	2,107	12,255	
162,110	162,238	32,809	9,546	29,374	8,546	5,226	21,384	
376,009	371,449	114,630	15,763	78,347	10,774	3,874	82,592	

(f)	The cost of employers' contributions to national insurance, pensions and welfare schemes and the running costs of cantee	ns, is
	estimated for the industry at £18.819 thousand.	

324,315

36,717

9,550

237,556

12,160

412,969

1,438,314

1,428,817

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

<sup>(</sup>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.

<sup>(</sup>d) Including working proprietors.

<sup>(</sup>e) Administrative, technical and clerical employees.

<sup>(</sup>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.

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

<sup>(</sup>j) 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, 1978 All United Kingdom establishments classified to the industry (a)

Area	Total employment (b)		Net capital expenditure	(c)	Net Gross value output (d) added at factor cost (d)		Gross value added at factor cost returned by establishments with 80 per cent or more
							of their employment in the region as a proportion of total gross value added at factor cost in the region
	Thousands	per cent of United Kingdom	£ thousand	per cent of United Kingdom	£ thousand	£ thousand	percentage
Standard regions of England							
North	1.3	4.0	457	1.2	11,982	7,693	_
Yorkshire and Humberside	2.3	6.6	1,343	3.7	16,461	13,639	59.5
East Midlands	1.9	5.7	2,387	6.5	19,956	13,510	25.5
East Anglia	0.6	1.7	1,883	5.1	6,253	4,900	62.8
South East	13.9	41.0	16,455	44.8	171,264	129,273	44.6
South West	1.7	5.0	1,008	2.8	18,134	14,244	47.2
West Midlands	2.0	5.8	1,976	5.4	37,151	34,268	90.4
North West	7.5	22.0	8,479	23.1	101,295	83,576	67.2
England	31.2	91.8	33,988	92.6	382,496	301,103	
Wales	0.5	1.4	642	1.8	3,723	2,396	14.1
Scotland	1.8	5.4	1,841	5.0	23,111	18,012	88.1
Great Britain	33.4	98.5	36,472	99.3	409,329	321,511	
Northern Ireland	0.5	1.5	245	0.7	3,640	2,804	88.1
United Kingdom	34.0	100.0	36,717	100.0	412,969	324,315	

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

## TABLE 6

percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments, 1978

Accoun	ting year ended		Percentage of total returns received	Percentage of total number employed
		100.74	per cent	per cent
1978	April (a)		2.0	2.1
	May		1.0	0.2
	June		1.0	0.1
	July		2.0	7.0
	August		1.0	2.0
	September		19.8	18.8
	October		2.0	0.7
	November		2.0	1,0
	December		42.6	34.0
1979	January		2.0	2.6
	February		2.0	2.4
	March (b)		22.8	29.2

<sup>(</sup>a) From 6th April.

## TABLE 7

Percentage analysis of employees, by full and part-time employment and sex, 1977(a) Food industries not elsewhere specified, minimum list heading 229

Sex	Full-time	Part-time	All employees	
	per cent	per cent	per cent	
Male	56	1	57	
Female	29	14	43	

Source: Department of Employment

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

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

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

<sup>(</sup>b) Including returns made for twelve-month period ended 1st to 5th April 1979.

<sup>(</sup>a) The percentages relate to the numbers employed (excluding working proprietors) in the United Kingdom in minimum list heading 229 at mid-June, 1977. In the 1977 Census of Production the employment of the Starch and miscellaneous foods industry represented 89 per cent of the employment of minimum list heading 229 as a whole.

Operating ratios, 1977–1978
All United Kingdom establishments classified to the industry (a)

	Unit	. 1977	1978
Gross output per head	£	41,664	42,074
Net output per head	£	12,045	12,160
Gross value added per head	£	10.011	0.550
Gross value added per riedd	L	10,011	9,550
Gross value added as a percentage of gross output	%	24	23
Ratio of gross output to stocks		5.6	6.0
Nages and salaries as a percentage of gross value added	%	31	36
Ratio of operatives to administrative, technical and clerical employees .	al	3.0	2.9
		3.0	2.5
Nages and salaries per administrative, technical and clerical employee	el £	3,984	4,407
Vages and salaries per operative	£	2,822	3,076
Net capital expenditure per head	£	960	1,081
Net capital expenditure as a percentage of gross value add	ed %	10	11

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

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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 mensus of Production, 1978.

## GENERAL INFORMATION

hanges made for 1978

hanges flate to 1978 is in line with similar inquiries being being the Census for 1978 is in line with similar inquiries being producted in other member countries of the European Economic productions.

The census differed from earlier censuses in three respects. Sampling was introduced for establishments employing 20 to 49 and a sample of smaller units was selected. A new question on the leasing of capital assets was included for 1978 only. This will provide register information for use in related inquiries into leasing.

pression of information relating to individual undertakings on 9(5)(b) of the Statistics of Trade Act 1947 states ne following provisions shall have effect with respect to any ort summary or other communication to the public of ormation obtained under the foregoing provisions of this Act in compiling any such report, summary or communication the ompetent 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, owever, 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". figure involved disclosure the contributor concerned was times asked to give permission for its publication. In the rity of cases permission was given. When it was refused and ere contributors were not approached the figure has been pressed, either by combining it with other figures, or as in the nal tables, by omitting the figure altogether.

## wmhols used

he 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

## 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 units

hestatistical 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 information in respect of each address, whether or not the activities are different. Their activities may, however, be integrated to such an extent that they constitute a single establishment. In the latter case the establishment is defined to cover the combined activities at these addresses (termed local units). Separate figures are obtained of employment and net capital expenditure at each unit in order to compile regional tables. Efforts are made by the Business Statistics Office (BSO) to ensure, by negotiating with respondents, that the return from an establishment does not cover local units in more than one of the countries of the United Kingdom

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

Particulars relating to head offices mainly engaged in the administration of the production units within the scope of the census were included. Where more than one return was made the information in respect of the head office was apportioned among them.

For certain purposes in the annual censuses of production (especially the enterprise analyses of Business Monitor PA 1002) related establishments are combined. An enterprise group is defined as a business consisting of either a single establishment or two or more establishments under common ownership or control. Bringing together establishments into enterprise groups is also necessary for the purpose of ensuring that there will be no disclosure of the activities of any one enterprise group. Information about the relationship of establishments, the changing structure of groups of companies and about common ownership links is obtained from many sources, including the Stock Exchange Year Book, company reports, press reports and information supplied by individual establishments.

## THE REGISTER

The register permits a questionnaire to be sent direct to the reporting establishment on which the latter can include information relating to all the manufacturing (or local) units which it comprises. The inquiries provide a major source of information for keeping the register continuously up-to-date and act as a check on its detail and structure. For the establishments on the register making returns to the quarterly inquiries, the industrial classification is derived from an analysis of their sales of commodities and is reviewed annually. Employment data are entered on the register from returns to the annual census of production. In cases where an establishment does not make a return to these inquiries the employment data are based on information provided by the Department of Employment from the annual censuses of employment. New additions to the register are obtained from various sources including the Department of Employment and HM Customs and Excise. The 1973 Finance Act allows the latter to pass lists of businesses registered for VAT to the BSO. Where necessary details are sought directly from new businesses. Units which cease to trade are removed from the live register.

## Coverage

In recent censuses returns have been required from all establishments employing 20 or more. For the 1978 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. The Census has included for the first time a smalle (around 10 per cent) of units employing 11 to 19 to meet an EEC requirement to collect a limited range of data from smaller units every 5 years.

#### Region

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 and to state whether any of the investment shown in cost of new building work, vehicles or plant and machinery included goods for letting out on hire or leasing.

## (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 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 ablishment's return. Transfers of goods to the establishment m another department of the same firm not covered by the ahlishment'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. chases of goods for merchanting or factoring have been lected separately since 1973. The values shown exclude VAT. ov 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 de discounts are excluded. Materials purchased duty-paid are luded at their duty-paid value, less any drawback, rebate, etc. 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 mdocks 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

les for the purposes of the annual censuses means deliveries on ale of goods made by establishments in the United Kingdom ared by the inquiry. Sales of goods made for these establishments butworkers or by other establishments from materials given out hem and sales of waste products are included. New building rk and machinery or other capital items produced by establishnts for hiring out or leasing are regarded as sales, the value uded in the return being that adopted in the establishments' tal asset accounts. Forward sales and canteen takings are excluded. sales in the period of the inquiry are included irrespective of n the goods were manufactured. Goods produced in one blishment and transferred either to ancillary departments not aged in production for which there are separate accounts, or to her establishment of the same firm not covered by the return, reated as sales by the producing establishment and valued as as possible as if they had been sold to an independent purchaser. ds transferred to wholesale or retail selling organisations, for h separate accounts are kept are valued on the same basis.

The value shown for sales is the "net selling value" defined as the amount (excluding VAT) charged to customers whether on an exworks or delivered basis, after any trade discounts and agents' commissions have been deducted. The cost of packing materials ess 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

rigures for work done represent the amount charged for work darried out on materials supplied by a customer and include repair work. Within certain industries this heading covers a wide variety of stivities, for example, within the food sector - butter packed on commission; within the textile industries - making up of garments, or dressing and textile finishing; within printing and publishing or paratory work on type-setting, block making and binding. Work tone is also significant in the electrical machinery and heavy negineering 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 laning of timher.

ndustrial services rendered include repairs and maintenance, instalation 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 earby 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 included.

#### Remuneration paid to outworkers

The remuneration paid to outworkers (ie persons employed by the establishment who do their work in their own homes) is generally on a piece-work basis, Only amounts paid to outworkers whose names appear on the establishment's payroll are included. Amounts paid to outworkers by sub-contractors are excluded.

## Employers' insurance and welfare contributions

This item includes employers' contributions to national insurance under the Social Security Pensions Act, 1975 as well as commercial insurance premiums to provide pensions, superannuation or other retirement benefits, sickness benefits, personal accident benefits, disability or death benefits for employees or former employees or their dependants. Contributions to the running costs of canteens, social centres, children's and holiday homes, etc for employees, former employees and their dependants are also included.

## Operating ratios

The operating ratios shown were obtained by dividing the estimate of the industry total for the quantity shown in the numerator by the corresponding estimate for the quantity shown in the denominator. These estimates cover all establishments classified to each industry, including not selected establishments and non-respondents. Within an industry, it is possible to compare ratios for an individual firm with the ratios shown for the relevant industry. However, it is important to bear in mind that various factors may affect the results — for example, differences in definitions, treatment of depreciation (which is not identified in the census data) and varying practice with regard to stock valuation, may affect comparability in some respects.

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