PA494.3

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1977

**Business Statistics Office** 

# **Business Monitor**

Report on the Census of Production

Sports equipment





## **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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## PA494.3 Business Monitor

A publication of the Government Statistical Service

Report on the Census of Production 1977

Sports equipment

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

Introductory notes

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

Pharmaceutical chemicals and preparations

Synthetic resins and plastics materials and

Iron and steel (general)

Aluminium and aluminium alloys

Agricultural machinery (except tractors)

Construction and earth-moving equipment

ventilating and air-conditioning equipment

Miscellaneous (non-electrical) machinery

PA349.2 Precision chains and other mechanical engineering

Printing, bookbinding and paper goods machinery

Industrial (including process) plant and steelwork

Photographic and document copying equipment

Scientific and industrial instruments and systems

Copper, brass and other copper alloys

Miscellaneous base metals

Metal-working machine tools

PA333.3 Compressors and fluid power equipment

Textile machinery and accessories

Mechanical handling equipment

PA339.3 Refrigerating machinery, space-heating,

PA339.5 Scales and weighing machinery and portable

PA339.7 Food and drink processing machinery and

packaging and bottling machinery

Ordnance and small arms
Ball, roller, plain and other bearings

Surgical instruments and appliances

Telegraph and telephone apparatus and

Gramophone records and tape recordings

Broadcast receiving and sound reproducing

Radio and electronic components

Mineral oil refining Lubricating oils and greases

Animal and poultry foods

PA229.2 Starch and miscellaneous foods

Brewing and malting

PA239.2 British wines, cider and perry

Inorganic chemicals

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Soap and detergents

Dyestuffs and pigments

PA279.2 Formulated adhesives, gelatine, etc. PA279.3 Explosives and fireworks

synthetic rubber

PA279.4 Formulated pesticides, etc.

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equipment

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Chalk, clay, sand and gravel extraction

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Sugar

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PA380 Wheeled tractor manufacturing Motor vehicle manufacturing PA381.2

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

wagons and trams Engineers' small tools and gauges PA391 Hand tools and implements

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PA417.2 Warp knitting PA418 Lace PA419 Carpets PA421 Narrow fabrics

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PA433 PA441

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

PAAAA Overalls and men's shirts, underwear, etc. PA445 Dresses, lingerie, infants' wear, etc. Hats, caps and millinery

PA449. Corsets and miscellaneous dress industries PA449 2 Gloves

PA450 Footwear PA461. Refractory goods

PA461.2 Building bricks and non-refractory goods PA462 Pottery

PA463 Glass PA464 Cement PA469. Abrasives

PA469.2 Miscellaneous building materials and mineral products

Timber PA472 Furniture and upholstery PA473 Bedding, etc. Shop and office fitting

PA475 Wooden containers and baskets

PA479 Miscellaneous wood and cork manufactures Paper and board

PA482. Cardboard boxes, cartons and fibre-board packing cases PA482 2 Packaging products of paper and associated materials PA483 Manufactured stationery

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Printing, publishing of newspapers and periodicals General printing and publishing PA491 Rubber

PA492 Linoleum, plastics floor-covering, leathercloth, etc. PA493 Brushes and brooms

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PA494.3 SPORTS EQUIPMENT

The information in this report relates to establishments classified to the Sports equipment industry, minimum list heading 494.3 in the Standard Industrial Classification (revised 1968). The activities of the industry include:

Manufacturing sports and gymnastic equipment and requisites. The manufacture of sports nets, billiard tables and bagatelle boards are 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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Output and costs, 1973—1977 All United Kingdom establishments classified to the industry (a)

	Unit	1973	1974	1975	1976	1977
Enterprises	Number	274	286	298	304	323
Establishments		296	310	. 322	330	351
Sales of goods produced	£ thousand	50,582	58,750	77,695	88,037	107,686
Receipts for work done and industrial services rendered	ntial to bear now on place this	(b)	(b)	(b)	1,606	1,968
Capital goods produced for establishments' own use	ur (1000 "	116	137	180	177	299
Non-industrial services rendered	,,	367	221	311	226	258
Goods merchanted or factored	"	9,504	10,675	14,128	15,587	23,557
Total sales and work done (c)		60,568	69,783	92,314	105,633	133,768
Increase during the year, work in progress and goods on hand for sale	<b>,,</b>	526	3,471	3,881	3,380	5,455
Gross output		61,094	73,254	96,195	109,013	139,222
Purchases of materials for use in production, and packaging and fuel		22,566	26,986	34,612	37,013	48,217
Purchases of goods for merchanting or actoring	,,	7,271	7,728	10,448	11,630	17,590
ncrease during the year, stocks of materials, stores and fuel	(C) 111	1,795	. 1,493	26	411	1,869
Cost of industrial services received	"	767	967	1,003	2,175	2,570
Net output		32,285	39,066	50,159	58,605	72,714
Total employment (d)	Thousands	11.5	12.0	13.0	12.5	12.6
Net output per head	£	2,812	3,262	3,865	4,705	5,760
Payments for non-industrial services						
Hire of vehicles, plant and machinery	£ thousand	455	284	971	175	333
Rents of industrial and commercial buildings	"	(e)	(e)	(e)	569	1,025
Commercial insurance premiums	"	247	365	387	550	833
Bank charges	"	112	49	65	108	181
Other non-industrial services	"	2,716	2,256	3,293	4,117	7,911
icensing of motor vehicles	"	17	25	9	18	44
Rates, excluding water rates		330	405	601	721	959
Gross value added at factor cost		28,407 ‡	35,682	44,832	52,347	61,428
Gross value added at factor cost per head	£	2,474	2,979	3,455	4,203	4,866

<sup>(</sup>a) Including estimates for establishments not making satisfactory returns, non-response and establishments with fewer than 20 persons. Satisfactory returns accounted for 75 per cent of employment within the industry.

TABLE 2

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

						£ thousand
total sense	1973	1974	1975	1976	1977	and with in
Land and buildings				(a)	ments	end of War
New building work	323	551	838	292	648	
Land and existing buildings						
Acquisitions	95	142	- vector 7	154	341	
Disposals	37	30	13	12	122	
Vehicles						
Acquisitions	323	372	445	641	954	El=11
Disposals	105	108	130	201	78 277	20-49
Plant and machinery						
Acquisitions	1,579	1,543	1,904	2,154	2,879	pg/ 576r
Disposals	22	10	19	17	73	3
Total net capital expenditure	2,154	2,459	3,034	3,012	4,351	AAC ISING CIUS.

PA494.3

TABLE 3

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

						£ thousar
	1973	1974	1975	1976		1977
	72,785,55	locats	Increase	22,08.4 12,62	\$ 4-782	Value at end of year
			er yrotselides or h	lem son sinamne)	danse tul sarandje	(a) including
	1,795	4 400	26	411	1,869	12,787
Work in progress	410	1,084	355	455	1,772	8,368
Goods on hand for sale	116	2,387	3,526	2,925	3,683	18,258
Total	2,321	4,963	3,907	3,791	7,323	39,412

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

<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 PQ 494.3.

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

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

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

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

PA494.3

Analysis of establishments by size, 1977 All United Kingdom establishments classified to the industry (a)

Size group	Estab- lish-	Enter- prises	Employme	ent		Wages and sa	laries (f)		
(b)	ments	(c)							
			Total (d)	Opera- tives	Others (e)	Operatives	86.059	Others (e)	d was
			(-)			Total	per head	Total	per head
700	Number	Number	Number	Number	Number	£ thousand	£	£ thousand	£
1–10	203	196	894 )						
11–19	40	39	534)	504	1878/5	323 24	15,587	anolal anolal	Acquis
20-49	57	56	1,818)	3,795	1,123	8,159	2,150	3,894	3,468
50–99	27	27	1,883)						
100-199	19	18	2,539	2,003	533	4,619	2,306	1,995	3,742
200 and over	5	5	4,957	3,723	1,234	9,489	2,549	4,204	3,407

Total	351	323	12,625	9,521	2,890	22,267	2,339	10,093	3,492

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

Total sales and work done (g)			put		Gross value added at factor cost		Net capital expenditure (h)	Total stocks and work in progress at end of year
		Total	D.0	per head	Total	per head		
£ thousand	£ thousand	d £ thou	sand	£	£ thousand	£	£ thousand	£ thousand
								Standard regions of England
52,528	53,855	28,244		5,507	(j)	(j)	1,133	13,621
27,689	28,409	14,372		5,660	34,907(j)	4,552(j)	788	bia suitano Y sbia sdimutt 7,573
53,550	56,958	30,098	2,216	6,072	26,521	5,350	2,430	18,218
July Inches		2,929			137	2,8	1.0	
	April							
		soloy full and p						
						mistant this strategy		

<sup>(</sup>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 £ 4,878 thousand. The remuneration of outworkers on returns received was £195 thousand.

61,428

4,866

4,351

39,412

5,760

72,714

139,222

133,768

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 group: 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, 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.

PA494.3

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	
bheabonf 3	bnesport 3	3 1		y sunda	Abmessicia	usand <u>e</u> finan	region	
	Thousands	per cent of United Kingdom	£ thousand	per cent of United Kingdom	£ thousand	£ thousand	percentage	
Standard regions of								
England								
North	0.3	2.3	167	3.8	1,570	1,297	84.3	
Yorkshire and Humberside	3.1	24.7	1,873	43.1	19,480	17,111	27.6	
East Midlands	0.4	3.3	112	2.6	2,315	2,107	80.4	
East Anglia	0.7	5.2	137	3.2	3,495	2,929	69.0	
South East	3.6	28.8	912	21.0	21,126	17,799	42.1	
South West	0.6	4.5	130	3.0	2,693	2,125	72.8	
West Midlands	1.4	11.3	512	11.8	7,539	6,055	34.4	
North West	0.8	6.1	245	5.6	4,641	3,902	35.5	
England	10.9	86.3	4,089	94.0	62,860	53,326		
Wales	*	*	*	*	*	*		
Scotland	1.4	11.4	201	4.6	8,304	6,841	58.6	
Great Britain	*	*	*	*	*	*		
Northern Ireland	*	*	*	*	*	*	*	
United Kingdom	12.6	100.0	4,351	100.0	72,714	61,428		

(a) 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.

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

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

TABLE 6

PA494.3

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

Account	ting year ended	Percentage of total retu	urns received	Percentage of tot	al number employed
	11,028	per cent	AND THE PROPERTY OF THE PROPER	per cent	os opiout per head of company
1977	April (a)	1.4		0.9	
	May	0.0		0.0	
	June	2.9		0.6	
	July	5.7		3.5	
	August	2.9		0.9	
	September	5.7		3.5	
	October Salas Sala	8.6		4.7	
	November	11.4		9.0	
	December	48.6			
1978	January State of the State of t	2.9		0.7	
	February	0.0		0.0	
	March (b)	10.0		4.1	

(a) 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) Toys, games, children's carriages and sports equipment industries, minimum list heading 494

Sex	Full-time	Part-time	All employees	
" Touris comet by the	per cent	per cent	per cent	
Male .	40	1 THE REGISTER	41	
Female	38	21	59	

Source: Department of Employment

The percentages relate to the numbers employed (excluding working proprietors) in the United Kingdom in minimum list heading 494 at mid-June, 1976, because 1977 information is not yet available. In the 1977 Census of Production the employment of the Sports equipment industry represented 26 per cent of the employment of minimum list heading 494 as a whole.

TABLE 8

ADLE O

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

				Unit	1977	
Gross output per head				sneo ne£	11,028	
Net output per head				0.0	5,760	
Gross value added per he	ead			£	4,866	
Gross value added as a p	ercentage of gro	oss output		%	44 tauguA	
					3.5°dmetos2	
Ratio of gross output to	stocks				5.5	
North	0.3	on value added		%	53 19doto0	
Wages and salaries as a p	ercentage of gro	oss value added		19,8801	27.Gedrnevol/	
Ratio of operatives to ac	dministrative, te	echnical and cle	erical		80 AredmessO 3.3	
employees					69.0	
Wages and salaries per o	perative			£	2,339	
South West	0.6					
Wages and salaries per ac employee	erical	0.01 £	3,492			
Net capital expenditure	per head			£	345 A MA MOTA	
	19.3					

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

Notes

PA494.3

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".

If a figure involved disclosure the contributor concerned was sometimes asked to give permission for its publication. In the majority of cases permission was given. When it was refused and where contributors were not approached the figure has been suppressed, either by combining it with other figures, or as in the regional tables, by omitting the figure altogether.

## ymbols used

The following symbols are used throughout the PA series of Business Monitors:

## not available

- nil or less than half the final digit shown

\* figures cannot be shown owing to the risk of disclosing information about individual enterprises.

## R revised

## Rounding of figures

Figures in the tables have, where necessary, been rounded to the nearest final digit. Where figures have been so rounded, the sum of the constituent items may not always agree exactly with the total shown.

## Industrial classification

The United Kingdom Standard Industrial Classification (SIC) was first issued in 1948 and was subsequently revised in 1958 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

The statistical unit for the purpose of the Census is the establishment which is defined in the SIC as the smallest unit which can provide the information normally required for an economic census, for

example, employment, expenses, turnover, capital formation. Usually the principal activities carried on in an establishment fall within a single heading of the classification (eg steel making or sugar refining). Typically the establishment embraces all the activities carried on at a single address eg a mine or a factory, including those which are ancillary to the principal activities. Frequently distinct activities characteristic of different industries are carried on at one address, but normally these are not classified separately and the whole establishment is classified according to the main activity. If, however, the required range of data can be provided for each activity, each is taken to constitute a separate establishment. Sometimes activities which are conducted as a single business are carried on at a number of addresses. Where this is so, businesses are asked to provide the full range of 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.

#### 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 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 subjet. 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 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, semimanufactured goods and workshop materials; of replacement parts and consumable tools not charged to capital account; of packaging materials of all types; of stationery and printed matter; of fuel, electricity and water; of materials to be used by the establishment or given out to other establishments for the production of machinery or other capital items for the establishment's own use; of materials for use by the establishment when working on goods supplied by

customers; and of food, etc for any canteen covered by the establishment's return. Transfers of goods to the establishment from another department of the same firm not covered by the establishment's return are included at a cost corresponding to the estimated selling value recorded by the other department. Amounts payable to transport firms or credited to the firm's own transport department for delivery of materials are excluded, as are all ourchases of machinery and plant charged to capital account. Purchases of goods for merchanting or factoring have been collected separately since 1973. The values shown exclude VAT. They include, in addition to the actual purchase price, the value of packaging material charged to the establishment. The value of returned goods or packaging material returned to suppliers and any trade discounts are excluded. Materials purchased duty-paid are ncluded at their duty-paid value, less any drawback, rebate, etc. he cost of transport is included only if it is included with the purchase price in the firm's accounts. Imported goods are included 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, renting and hire purchase charges are excluded.

#### sales of goods produced

Sales for the purposes of the annual censuses means deliveries on sale of goods made by establishments in the United Kingdom vered 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 work and machinery or other capital items produced by establishments for hiring out or leasing are regarded as sales, the value beluded in the return being that adopted in the establishments' papital asset accounts. Forward sales and canteen takings are excluded. All sales in the period of the inquiry are included irrespective of when the goods were manufactured. Goods produced in one establishment and transferred either to ancillary departments not ngaged in production for which there are separate accounts, or to other establishment of the same firm not covered by the return, re treated as sales by the producing establishment and valued as ar as possible as if they had been sold to an independent purchaser. Goods transferred to wholesale or retail selling organisations, for hich 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 jobbing work. Other activities within this heading include exploration work, research and development, glass cutting and dressing and planing of timber.

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

## Capital goods produced for establishments' own use

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

## Non-industrial services rendered

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

## Goods merchanted or factored

Merchanted goods are those (excluding canteen sales) sold without

having been subjected to any manufacturing process by the seller.

#### Stocks and work in progress

Values are given of stocks of goods on hand for sale and of materials, stores and fuel, at the end of the year of return and of the change during the year, including any stocks of goods held for merchanting or factoring. Work in progress is defined as materials which have been partially processed by the establishment but which are not usually sold or transferred to another establishment without further processing. The values include the cost of materials consumed and labour used, 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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