Business Statistics Office

Business Monitor

Report on the Census of Production

Scales and weighing machinery and portable power tools

05/42(HA25)

1978

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PA339.5 Business Monitor

A publication of the Government Statistical Service

Report on the Census of Production 1978

Scales and weighing machinery and portable power tools

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

Biscuits

Sugar

PA229.1 Margarine

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

Soap and detergents
Synthetic resins and plastics materials and

Aluminium and aluminium alloys Copper, brass and other copper alloys

Agricultural machinery (except tractors)
Metal-working machine tools

Construction and earth-moving equipment

PA339.2 Printing, bookbinding and paper goods machinery

Food and drink processing machinery and

Animal and poultry foods

PA229.2 Starch and miscellaneous foods

PA239.1 Spirit distilling and compounding

Lubricating oils and greases

Brewing and malting

PA239.2 British wines, cider and perry

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Iron castings, etc.

Industrial engines

Office machinery

Mining machinery

power tools

PA279.6 Surgical bandages, etc.

Steel tubes

Fertilizers

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PA279.5 Printing ink

Dyestuffs and pigments

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PA339.5 Scales and weighing machinery and portable

packaging and bottling machinery

Soft drinks

Tobacco

PA271.2 Organic chemicals

Paint

PA271.3 Miscellaneous chemicals

Coal mining
Stone and slate quarrying and mining

Chalk, clay, sand and gravel extraction

Miscellaneous mining and quarrying

Bacon curing, meat and fish products

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PA472 Furniture and upholstery Bedding, etc. PA474 Shop and office fitting

PA475 Wooden containers and baskets Miscellaneous wood and cork manufactures

PA481 Paper and board PA482 Cardboard boxes, cartons and fibre-board packing cases Packaging products of paper and associated materials

Miscellaneous (non-electrical) machinery PA483 Manufactured stationery Industrial (including process) plant and steelwork PA484.1 Wallcoverings

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Watches and clocks PA492 Linoleum, plastics floor-covering, leathercloth, etc. Surgical instruments and appliances PA493 Brushes and brooms Scientific and industrial instruments and systems

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1439.5 SCALES AND WEIGHING MACHINERY AND PORTABLE POWER TOOLS

PA 339 5

The information in this report relates to establishments classified to the Scales and weighing machinery and portable power tools industry, inimum list heading 339.5 and 6 in the Standard Industrial Classification (revised 1968). The activities of the industry include:-

Manufacturing scales, spring balances, weighing machinery, etc.; portable power tools of the hand-held type (including flexible shaft drive tools) and of the type employed in civil engineering, mining and quarrying.

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

	Unit	1974	1975	1976	1977	1978
Enterprises	Number	53	62	69	70	68
Establishments	"	68	83	89	86	83
Sales of goods produced	£ thousand	94,578	104,512	136,395	141,734	191,393
Receipts for work done and industrial services rendered	ended se	(b)	(b)	3,890	5,099	9,528
Capital goods produced for establishments' own use	,,	51	142	(b)	(b)	100
Non-industrial services rendered	"	883	639	484	517	451
Goods merchanted or factored	"	5,475	4,886	7,076	15,686	21,017
Total sales and work done (c)	"	100,988	110,180	147,845	163,036	222,489
ncrease during the year, work in progress and goods on hand for sale	"	4,490	1,916	2,655	119	3,673
Gross output	"	105,478	112,096	150,500	163,155	226,163
Purchases of materials for use in production, and packaging and fuel		39,493	35,910	58,579	61,313	69,216
Purchases of goods for merchanting or actoring	"	3,599	3,427	5,509	12,610	17,127
ncrease during the year, stocks of materials, stores and fuel	,,	4,848	-1,174	1,549	2,054	526
Cost of industrial services received	"	1,443	2,664	3,095	3,763	5,951
Net output	"	65,801	68,922	84,866	87,624	134,394
Fotal employment (d)	Thousands	13.6	13.2	13.6	13.3	14.0
Net output per head	£	4,825	5,241	6,248	6,595	9,600
Payments for non-industrial services						
Hire of vehicles, plant and machinery	£ thousand	687	1,422	66	365	615
Rents of industrial and commercial buildings	,,	(e)	(e)	1,156	1,313	1,311
Commercial insurance premiums	"	278	460	564	628	919
Bank charges	"	41	53	93	162	185
Other non-industrial services	"	3,187	5,482	13,263	12,709	10,912
icensing of motor vehicles	"	26	52	64	72	84
lates, excluding water rates	"	772	1,055	1,074	1,182	1,488
Gross value added at factor cost	,, -	60,809	60,397	68,586	71,092	118,920
Gross value added at factor cost per head	£	4,459	4,593	5,050	5,357	8,494

Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census. Satisfactory returns accounted for 91 per cent of employment within the industry.

TABLE 2

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

All Offices						£ thousand
Charles of the Samuel State	1974	1975	1976	1977	1978	
and and buildings						
New building work	220	288	730	893	967	
Land and existing buildings						
Acquisitions	322	70	948	186	(c)	
Disposals	183	8	593	140	293	
/ehicles						
Acquisitions	401	595	889	990	1,193	
Disposals	132	135	217	245	385	
Plant and machinery						
Acquisitions	1,738	1,527	4,220	4,786	5,211	
Disposals	60	60	68	116	187	
Total net capital expenditure	2,306	2,277	5,910	6,353	6,506	

⁽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)

						£ thousand
	1974	1975	1976	1977		1978
	erza monte		Increase		120	Value at end of year
						physica greenusite - day
Materials, stores and fuel	4,848	-1,174	1,549	2,054	526	17,476
Work in progress	1,893	712	3,541	2,654	710	20,191
Goods on hand for sale	2,597	1,204	-886	-2,534	2,963	21,199
Total	9,338	743	4,204	2,174	4,199	58,866

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

⁽b) Included in sales of goods produced.

Details of manufacturers' quarterly sales of principal products are published regularly in Business Monitor PQ339.5 (c)

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

For 1974 and 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

⁽c) Included in new building work.

Analysis of establishments by size, 1978
All United Kingdom establishments classified to the industry (a)

Size group (b)	Estab- lish- ments	Enter- prises (c)	Employmen	Employment			Wages and salaries (f)			
			Total	Opera-	Others (e)	Operatives		Others (e)		
			(d)	tives	,0,	Total	per head	Total	per head	
	Number	Number	Number	Number	Number	£ thousand	£	£ thousand	£	
1-10	28	25	117)							
11-19	9	9	125)	000	424	2,609	3,110	1,760	4,151	
20-49	15	15	525)	839	424	2,009	3,110	1,700	4,151	
50-99	8	7	509)							
100—199	9	7	1,263	870	391	3,028	3,480	1,554	3,974	
200–299	5	5	1,252	763	489	2,936	3,848	2,082	4,258	
300-399	3	3	1,113	734	379	2,377	3,238	1,307	3,449	
400 and over	6	6	9,096	6,547	2,549	21,028	3,212	12,542	4,920	

Total 83 68 14,000 9,753 4,232 31,978 3,279 19,246 4,54										
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Total	83	68	14,000	9,753	4,232	31,978	3,279	19,246	4,548

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

Total sales and work done (g)	Gross output	Net output		Gross value added at factor cost		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
16,587	16,801	8,519	6,676	(j)	(j)	476	4,148
15,529	15,863	9,107	7,211	15,940(j)	6,278(j)	517	4,116
18,207	18,371	10,343	8,261	9,240	7,380	553	5,763
12,581	12,991	7,047	6,332	6,101	5,482	370	3,930
159,586	162,136	99,379	10,926	87,638	9,635	4,591	40,909

222,489	226,163	134,394	9,600	118,920	8,494	6,506	58,866

⁽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 £8,854 thousand.

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

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

⁽d) Including working proprietors.

⁽e) Administrative, technical and clerical employees.

⁽g) Sales of goods produced, capital goods manufactured and buildings constructed by establishments for their own use, work done, industrial and non-industrial services rendered and merchanted goods.

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

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

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 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
		7.550 T	PETE.	6-51	g Victorian	No.	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	2.6	18.5	1,444	22.2	*	*	*
Yorkshire and Humberside	*	*	*	*		*	*
East Midlands	0.8	5.4	223	3.4	5,797	5,254	78.6
East Anglia	0.1	0.8	20	0.3	696	627	34.0
South East	5.4	38.5	2,534	39.0	53,423	47,434	52.4
South West	0.1	0.8	46	0.7	993	921	46.2
West Midlands	3.1	22.4	1,825	28.0	25,108	23,079	74.7
North West	*	*	*	*	*	*	*
England	12.9	92.2	6,216	95.5	123,929	109,649	
Wales	* *	*	*	*	*	*	*
Scotland	*	*	*	*	*	*	*
Great Britain	*	*	*	*	*	*	
Northern Ireland	*	*	*	*	*	*	
United Kingdom	14.0	100.0	6,506	100.0	134,394	118,920	

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

(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.

(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.

TABLE 6

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

ccounting year ended	Percentage of total returns rece	ived Percentage of total number employed
	per cent	per cent
978 April (a)	5.6	0.7
May	CONTROL OF THE CONTRO	
June	5.6	0.8
July		
August	2.8	0.8
September	8.3	28.8
October		
November	11.1	6.7
December	55.6	60.2
79 January		
February	<u>-</u>	
March (b)	11.1	2.0

(a) From 6th April.

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

TABLE 7

Percentage analysis of employees, by full and part-time employment and sex, 1977(a) Other machinery industries, minimum list heading 339

Sex	Full-time	Part-time	All employees	
	per cent	per cent	per cent	
Male	82	1	83	
Female	13	4	17	

Source: Department of Employment

⁽a) The percentages relate to the numbers employed (excluding working proprietors) in the United Kingdom in minimum list heading 339 at mid-June, 1977. In the 1977 Census of Production the employment of the Scales and weighing machinery and portable power tools industry represented 6 per cent of the employment of minimum list heading 339 as a whole.

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

	Unit	1977	1978
Gross output per head	£	12,293	16,154
Net output per head	£	6,595	9,600
Gross value added per head	£	5,357	8,494
Gross value added as a percentage of gross output	%	44	53
Ratio of gross output to stocks		3.4	3.8
Vages and salaries as a percentage of gross value added	%	59	43
Ratio of operatives to administrative, technical and clerical employees			120.00
		2.3	2.3
Vages and salaries per administrative, technical and clerical mployee	£	3,730	4,548
		3,730	4,040
/ages and salaries per operative	£	2,915	3,279
let capital expenditure per head	£	479	465
let capital expenditure as a percentage of gross value added	%	9	5

⁽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 Census of Production, 1978.

GENERAL INFORMATION

hanges made for 1978

The Census for 1978 is in line with similar inquiries being conducted in other member countries of the European Economic communities.

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.

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 report, 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 metimes asked to give permission for its publication. In the najority of cases permission was given. When it was refused and where contributors were not approached the figure has been uppressed, either by combining it with other figures, or as in the ional tables, by omitting the figure altogether.

Symbols use

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.
- 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 unit

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

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

Regions

The regions defined in Table 5 take account of the boundary changes arising out of the Local Government Act 1972 and the Local Government Act (Scotland) 1973. These changes came into effect in April 1974 in England and Wales and May 1975 in Scotland

TERMS USED IN THE CENSUS REPORT

Average number employed

Establishments were required to state the average number of persons on the payroll during the year of return. Separate figures were required for:

(a) administrative, technical and clerical employees

(b) all other employees (operatives)

Averages could be calculated from the figures relating to the last week of each calendar month. Establishments were also required to state the number of working proprietors where appropriate and these are included in total employment figures. Full-time and part-time employees are included but outworkers (ie persons employed by establishments who worked in their own homes etc on materials supplied by the establishment) are excluded. The figures include persons engaged on merchanting or factoring and canteen workers where particulars in respect of these activities could not be excluded from the return.

Working proprietors

These include all persons regarded as "self-employed" for national insurance purposes and members of their families who worked in the business without receiving a wage or salary; but such persons who worked less than half the normal number of working hours are excluded. Directors working in the business but not in receipt of a definite wage, salary or commission are included under this heading: directors paid by fee only are not included.

Employees

Administrative, technical and clerical employees include directors in receipt of a definite wage, salary or commission, managers and works foremen; research and design employees (other than operatives); draughtsmen, editorial staff, advertising staff, travellers and all office employees.

Operatives include all other classes of employees, that is, broadly speaking, all manual wage earners. They include operatives employed in power stations, transport (including roundsmen), warehouses, stores, shops and canteens, inspectors, maintenance workers and cleaners. Operatives engaged in outside work of erecting, fitting etc are also included, but outworkers are excluded.

Capital expenditure

Capital expenditure during the year in respect of manufacturing units where production had not started before the end of the year is included. Establishments were asked not to deduct from the value of capital expenditure amounts received or expected to be received in grants or allowances from the Government or any statutory body or local authority. Establishments with 100 or more employees were asked to include a total net capital expenditure figure for each calendar year 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 vear 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 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

stomers; 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 stablishment's return are included at a cost corresponding to the mated selling value recorded by the other department. Amounts gyable to transport firms or credited to the firm's own transport nartment 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 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 urned goods or packaging material returned to suppliers and any ade discounts are excluded. Materials purchased duty-paid are huded at their duty-paid value, less any drawback, rebate, etc. e cost of transport is included only if it is included with the rchase 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, ne cost is entered at cif plus duty (if applicable). Leasing, nting and hire purchase charges are excluded.

Sales of goods produced

sales for the purposes of the annual censuses means deliveries on le of goods made by establishments in the United Kingdom ared 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 establishents for hiring out or leasing are regarded as sales, the value luded 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 gaged 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, ds transferred to wholesale or retail selling organisations, for ich 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 ex-works 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 of accounted.

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, for dressing and textile finishing; within printing and publishing oreparatory 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.

idustrial services rendered include repairs and maintenance, instaation work, and technical research and studies for other ganisations,

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. 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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