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Business Statistics Office

Business Monitor

Report on the
Census of Production

Machinery for the food,
chemical and related
industries; process
engineering contractors



A publication of the Government Statistical Service

A publication of the Government Statistical Service

PRICE INCREASES

Prices of Business Monitors in 1983 have been set to make some contribution to the costs incurred at the Business Statistics Office in the preparation of Monitors.

SPECIAL NOTE FOR PURCHASERS

Reports on the Census of Production for separate industries are being published in the Business Monitor series. These Monitors have a code P (for production) followed by A (indicating an annual series) and then by a number indicating the industry covered by the report.

Commencing with the 1980 census, the first Annual Census of Production to be conducted on the Standard Industrial Classification (Revised 1980), separate reports will in general appear for each 3 digit Group of the new classification. Results for 1980 include 1979 back data but more detailed 1979 figures based on the new classification have been published as a single separate Business Monitor (PA1002.1). This includes the results of the 1979 Purchases Inquiry. Reports on the Census of Production for the years prior to 1980 are available at 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 from HMSO, PO Box 569, London, SE1 9NH, Tel No: 01-928-6977. A standing order ensures that selected titles in the annual series are supplied automatically on publication. A £25 deposit will open an account.

Additionally single copies of the reports can be obtained from HMSO Bookshops and are individually priced.

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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**Report on the
Census of Production
1981**

**Machinery for the food,
chemical and related
industries; process
engineering contractors**

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

LIST OF INDUSTRY REPORTS

PA1001	Introductory notes	PA372	Medical and surgical equipment and orthopaedic appliances
PA111	Coal extraction and manufacture of solid fuels	PA373	Optical precision instruments and photographic equipment
PA120	Coke ovens	PA374	Clocks, watches and other timing devices
PA130	Extraction of mineral oil and natural gas	PA411	Organic oils and fats
PA140	Mineral oil processing	PA412	Processing of bacon, meat and poultry
PA161	Production and distribution of electricity	PA413	Preparation of milk and milk products
PA162	Public gas supply	PA414	Processing of fruit and vegetables
PA170	Water supply industry	PA415	Fish processing
PA210	Extraction and preparation of metalliferous ores	PA416	Grain milling
PA221	Iron and steel industry	PA419	Bread, biscuits and flour confectionery
PA222	Steel tubes	PA420	Sugar and sugar by-products
PA223	Drawing, cold rolling and cold forming of steel	PA421	Ice-cream, cocoa, chocolate and sugar confectionery
PA224	Non-ferrous metals industry	PA422	Animal feeding stuffs
PA231	Extraction of stone, clay, sand and gravel	PA423	Starch and miscellaneous foods
PA239	Extraction of miscellaneous minerals (including salt)	PA424	Spirit distilling and compounding
PA241	Structural clay products	PA426	Wines, cider and perry
PA242	Cement, lime and plaster	PA427	Brewing and malting
PA243	Building products of concrete, cement or plaster	PA428	Soft drinks
PA244	Asbestos goods	PA429	Tobacco industry
PA245	Working of stone and other non-metallic minerals	PA431	Woollen and worsted industry
PA246	Abrasive products	PA432	Cotton and silk industries
PA247	Glass and glassware	PA433	Throwing, texturing, etc. of continuous filament yarn
PA248	Refractory and ceramic goods	PA434	Spinning and weaving of flax, hemp and ramie
PA251	Basic industrial chemicals	PA435	Jute and polypropylene yarns and fabrics
PA255	Paints, varnishes and printing ink	PA436	Hosiery and other knitted goods
PA256	Specialised chemical products mainly for industrial and agricultural purposes	PA437	Textile finishing
PA257	Pharmaceutical products	PA438	Carpets and other textile floorcoverings
PA258	Soap and toilet preparations	PA439	Miscellaneous textiles
PA259	Specialised chemical products mainly for household and office use	PA441	Leather (tanning and dressing) and fellmongery
PA260	Production of man-made fibres	PA442	Leather goods
PA311	Foundries	PA451	Footwear
PA312	Forging, pressing and stamping	PA453	Clothing, hats and gloves
PA313	Bolts, nuts, etc.; springs; non-precision chains; metals treatment	PA455	Household textiles and other made-up textiles
PA314	Metal doors, windows, etc.	PA456	Fur goods
PA316	Hand tools and finished metal goods	PA461	Sawmilling, planing, etc. of wood
PA320	Industrial plant and steelwork	PA462	Manufacture of semi-finished wood products and further processing and treatment of wood
PA321	Agricultural machinery and tractors	PA463	Builders' carpentry and joinery
PA322	Metal-working machine tools and engineers' tools	PA464	Wooden containers
PA323	Textile machinery	PA465	Miscellaneous wooden articles
PA324	Machinery for the food, chemical and related industries; process engineering contractors	PA466	Articles of cork and plaiting materials, brushes and brooms
PA325	Mining machinery, construction and mechanical handling equipment	PA467	Wooden and upholstered furniture and shop and office fittings
PA326	Mechanical power transmission equipment	PA471	Pulp, paper and board
PA327	Machinery for printing, paper, wood, leather, rubber, glass and related industries: laundry and dry cleaning machinery	PA472	Conversion of paper and board
PA328	Miscellaneous machinery and mechanical equipment	PA475	Printing and publishing
PA329	Ordnance, small arms and ammunition	PA481	Rubber products
PA330	Manufacture of office machinery and data processing equipment	PA483	Processing of plastics
PA341	Insulated wires and cables	PA491	Jewellery and coins
PA342	Basic electrical equipment	PA492	Musical instruments
PA343	Electrical equipment for industrial use, and batteries and accumulators	PA494	Toys and sports goods
PA344	Telecommunication equipment, electrical measuring equipment, electronic capital goods and passive electronic components	PA495	Miscellaneous manufacturing industries
PA345	Miscellaneous electronic equipment	PA500	Construction
PA346	Domestic-type electric appliances	PA1002	Summary tables
PA347	Electric lamps and other electric lighting equipment		
PA351	Motor vehicles and their engines		
PA352	Motor vehicle bodies, trailers and caravans		
PA353	Motor vehicle parts		
PA361	Shipbuilding and repairing		
PA362	Railway and tramway vehicles		
PA363	Cycles and motor cycles		
PA364	Aerospace equipment manufacturing and repairing		
PA365	Miscellaneous vehicles		
PA371	Measuring, checking and precision instruments and apparatus		

PA324 MACHINERY FOR THE FOOD, CHEMICAL AND RELATED INDUSTRIES; PROCESS ENGINEERING CONTRACTORS PA324

The information in this report relates to establishments classified to the Machinery for the food, chemical and related industries; process engineering contractors industry, Group 324 in the Standard Industrial Classification Revised 1980. The industry Group covers the following Activity Heading:-

- 3244 Food, drink and tobacco processing machinery; packaging and bottling machinery**
- 1. Food and drink processing machinery**
Manufacture of plant and machinery for industrial food and drink processing. Machinery for use on farms is classified to Group 321 and for domestic use to Group 346.
 - 2. Packaging and bottling machinery**
Manufacture of machinery for bottling, canning, packeting, labelling and bottle washing.
 - 3. Tobacco processing machinery**
Manufacture of tobacco processing and cigar and cigarette making machinery.
- 3245 Chemical industry machinery; furnaces and kilns; gas, water and waste treatment plant**
- 1. Chemical industry machinery**
Manufacture of centrifuges, drying machines, filtration and industrial mixing equipment.
 - 2. Furnaces and kilns**
Manufacture of furnaces, ovens and kilns for the manufacture of metals and for the manufacture of cement, lime, glass and similar materials. Electrically fired types are included. High frequency microwave and dielectric furnaces are classified to Group 343.
 - 3. Gas, water and waste treatment plant**
Manufacture of air and gas cleansing plant for processes and for pollution control. Manufacture of water, effluent and sewage treatment plant for process, industrial or municipal use. Manufacture of refuse disposal plant including incinerators.
- 3246 Process engineering contractors**
Contracting for the design, engineering, procurement, on site construction, assembly and installation, and commissioning of plant for the process industries. Firms in this category are organised to enable them to contract for a combination of these functions even though their responsibility may be limited in the case of individual contracts.

For a full description of the 1980 Classification see Standard Industrial Classification Revised 1980 obtainable from Her Majesty's Stationery Office, price £3.40.

In interpreting the data in the tables it is essential to bear in mind the notes and definitions which commence on page 9.

LIST OF CONTENTS

Table No	Title	Page
1	Output and costs, 1979-1981	4
2	Capital expenditure, 1979-1981	5
3	Stocks and work in progress, 1979-1981	5
4	Analysis of establishments by size, 1981	6-7
5	Percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments, 1981	8
6	Operating ratios, 1979-1981	8

TABLE 4

Analysis of establishments by size, 1981
All United Kingdom establishments classified to the industry (a)

Size group (b)	Estab-lish-ments (c)	Enter-prises (d)	Employment			Wages and salaries (g)			
			Total (e)	Opera-tives	Others (f)	Operatives		Others (f)	
						Total	per head	Total	per head
Number	Number	Thousand	Thousand	Thousand	£ million	£	£ million	£	
1-10	363	344	1.8						
11-19	156	154	2.4						
20-49	102	99	3.3	6.9	5.7	38.1	5,492	38.8	6,847
50-99	80	78	5.5						
100-199	55	54	7.9	4.0	3.8	21.7	5,381	27.5	7,165
200-299	19	18	4.6	1.9	2.7	10.8	5,584	19.5	7,317
300-399	11	10	3.8	1.5	2.2	8.5	5,575	18.6	8,283
400-499	11	10	5.0	1.9	3.0	10.4	5,361	22.5	7,428
500-749	11	11	6.7	1.7	5.0	9.8	5,747	47.3	9,421
750-999	7	6	6.2	1.3	4.9	7.0	5,403	53.1	10,837
1,000-1,499	3	3	3.9	0.9	3.0	3.7	3,923	29.7	10,000
1,500-1,999	3	3	5.2	1.1	4.1	7.4	6,952	45.8	11,192
2,000 and over	4	4	9.8	5.8	4.0	54.3	9,419	36.0	8,936
Total	825	742	65.9	27.2	38.5	171.8	6,326	338.7	8,810

- (a) Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census.
- (b) Average number employed during the year, including full and part-time employees and working proprietors.
- (c) Establishments employing fewer than 20 persons are generally exempt from Business Statistics Office inquiries and data for these establishments are therefore of doubtful reliability. Figures for establishments employing 1-10 persons are particularly at risk. They should be regarded merely as the best estimates available and used with caution.
- (d) The count of enterprises shown in each row represents the number of enterprises, irrespective of size, owning the establishments shown in the previous column, i.e. the number of enterprises owning the establishments within the size group indicated by the row heading. It should be noted that because an enterprise may own establishments in more than one size group, the sum of the individual enterprise counts may exceed the total for the industry.
- (e) Including working proprietors.

Total sales and work done (h)	Gross output		Net output		Gross value added at factor cost		Net capital expenditure (j)	Total stocks and work in progress at end of year
	Total	per head	Total	per head	Total	per head		
£ million	£ million	£	£ million	£	£ million	£	£ million	£ million
298.3	295.2	12,345	159.5	12,345	(k)	(k)	4.4	58.7
192.7	190.1	13,355	105.3	13,355	213.2(k)	10,244(k)	2.8	36.6
132.7	131.1	13,267	61.2	13,267	48.2	10,455	2.1	25.0
96.8	98.8	16,206	61.2	16,206	50.4	13,354	2.2	51.2
132.2	143.8	18,095	89.7	18,095	76.9	15,501	3.4	54.4
182.1	181.6	17,790	119.8	17,790	92.2	13,694	2.4	13.6
203.7	204.6	26,448	163.8	26,448	144.0	23,252	1.7	20.5
108.0	109.4	25,709	100.5	25,709	85.6	21,879	1.4	8.6
177.0	177.5	27,429	141.4	27,429	121.2	23,498	3.0	32.2
205.8	204.3	16,443	161.1	16,443	143.7	14,668	2.1	25.9
1,729.1	1,736.4	17,645	1,163.7	17,645	975.4	14,790	25.4	326.6

- (f) Administrative, technical and clerical employees.
- (g) The cost of employers' contributions to national insurance, pensions and welfare schemes and the running costs of canteens, is estimated for the industry at £85.3 million.
- (h) 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 merchant goods.
- (j) New building work plus acquisitions less disposals of land and existing buildings, vehicles and plant and machinery.
- (k) Gross value added data relate to establishments employing 1-199.

TABLE 5

PA324

Percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments, 1981

Accounting year ended		Percentage of total returns received	Percentage of total number employed
		per cent	per cent
1981	April (a)	3.4	1.0
	May	1.7	0.3
	June	7.5	2.8
	July	—	—
	August	0.6	0.2
	September	8.6	4.9
	October	2.9	4.1
	November	2.9	2.7
	December	44.2	51.7
1982	January	6.9	5.6
	February	—	—
	March (b)	21.3	26.7

(a) From 6th April.

(b) Including returns made for twelve-month period ended 1st to 5th April 1982.

TABLE 6

Operating ratios, 1979–1981

All United Kingdom establishments classified to the industry (a)

	Unit	1979	1980	1981
Gross output per head	£	19,818	23,585	26,330
Net output per head	£	12,686	15,213	17,645
Gross value added per head	£	10,765	13,083	14,790
Gross value added as a percentage of gross output	%	54	55	56
Ratio of gross output to stocks		5.1	5.0	5.3
Wages and salaries as a percentage of gross value added	%	52	52	52
Ratio of operatives to administrative, technical and clerical employees		0.8	0.8	0.7
Wages and salaries per administrative, technical and clerical employee	£	6,296	7,601	8,810
Wages and salaries per operative	£	4,871	5,814	6,326
Net capital expenditure per head	£	535	376	385
Net capital expenditure as a percentage of gross value added	%	5	3	3

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

NOTES

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 — PA1001 (Introductory Notes) of the Report on the Census of Production, 1981.

GENERAL INFORMATION

CHANGES MADE FOR 1981

The 1981 census differed from the 1980 census in one respect. Questions relating to capital expenditure on motor cars were removed from the questionnaire.

INDUSTRIAL CLASSIFICATION

The 1981 census is being conducted on the SIC (Revised 1980). The United Kingdom SIC was first issued in 1948 and revised in 1958, 1968 and 1980. It exists to promote uniformity and comparability in the official statistics of the United Kingdom. Prior to the 1980 revision the general principles followed were those of the International Standard Industrial Classification of all Economic Activities of the United Nations Statistical Office but for the 1980 revision an attempt was made to align the United Kingdom classification as closely as practicable with NACE, the classification in use by the Statistical Office of the European Community. The SIC is a classification by activity and not a commodity classification.

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 the information normally required for an economic census, for example, employment, expenses, turnover, and capital formation. Usually the principal activities carried on in an establishment fall within a single heading of the classification (e.g. steel making or sugar refining). Typically the establishment embraces all the activities carried on at a single address e.g. a mine or 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 of employment and net capital expenditure are obtained for each local unit in order to compile regional tables. Efforts are made by the 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 e.g. merchandising, transport or 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, responders 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 are included. Where more than one return is made the information in respect of the head office is apportioned among them. For certain purposes in the censuses of production (e.g. for disclosure testing and the preparation of the enterprise analyses shown in Business Monitor PA1002) related establishments are combined to enterprise level. An enterprise group is defined as a business consisting of either a single establishment or two or more establishments under common ownership or control. Information about relationships between 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

A computerised register of about 120,000 production units throughout the United Kingdom is held in the BSO. This register provides the basis for a wide range of BSO inquiries mailed to the production sector. For each production unit the register contains identification particulars and information about a unit's eligibility for inclusion in an inquiry; its relationship with other units in common ownership; industrial classification; nationality of parent company if foreign owned and location indicators permitting regional analyses. Regional and size analyses of manufacturing local units are published each year in Business Monitor PA1003 (Analyses of United Kingdom Manufacturing (local) units by employment size).

The inquiries provide a major source of information for keeping the register continuously up-to-date and act as a check on its structure. For the establishments on the register making returns to the quarterly inquiries into manufacturers, sales, industrial classification is derived from an analysis of their commodity sales and is reviewed annually. For any other establishments for which no up-to-date information was available classification to SIC Revised 1980 was made on a pro-rata basis in line with the reclassification pattern by industry of establishments for which actual product sales data was held. Employment data are entered on the register from the quarterly inquiries and the censuses of production. Where establishments do not make a return to these inquiries the employment data are based on information provided by the Department of Employment from censuses of employment. New additions to the register are obtained from various sources including Value Added Tax records, the Census of Employment and register proving forms.

COVERAGE

The census covers United Kingdom establishments engaged in production and construction industries (Divisions 1 to 2 of the SIC (Revised 1980)). The Channel Islands and the Isle of Man are excluded.

Under the sampling arrangements agreed for the 1981 census, forms were despatched to samples of 1 in 4 and 1 in 2 for the 20 to 49 and 50 to 99 employment size bands respectively for most production industries. For a limited number of production industries, where there were very few units in the sample size bands, all establishments with employment of 20 or more were included. Units employing fewer than 20 continued to be exempt from selection. All units employing 100 or more were subject to a full coverage. The total number of forms mailed was 18,670. In the construction industry forms were despatched to a 1 in 2 sample of undertakings employing 20 to 49 and all undertakings employing 50 or more. The total number of forms mailed was 6,300.

SUPPRESSION OF INFORMATION RELATING TO INDIVIDUAL UNDERTAKINGS

Subsection 9(5)(b) of the Statistics of Trade Act, 1947 states that: "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".

Where the publication of any figure is likely to disclose particulars relating to an individual undertaking, either the contributor is approached to seek consent for publication or the figure is suppressed. Where convenient, suppression takes the form of combining the disclosive figure with adjacent cells. Steps are also taken to avoid the release of figures which may lead to disclosure by deduction when compared with other census results.

SYMBOLS USED

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

- .. not available
- nil or less than half the final digit shown
- * figures cannot be shown owing to the risk of disclosing information about individual enterprises.
- R revised

ROUNDING OF FIGURES

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

EXPLANATION OF TERMS USED IN THE CENSUS REPORT

The notes and definitions given in this section are mainly based on the general instructions given to respondents as to the way in which returns were to be completed.

CAPITAL EXPENDITURE

Capital expenditure during the year in respect of production 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 the 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 establishments 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 and Customs and Excise car tax are 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.

CAPITAL GOODS PRODUCED FOR AN ESTABLISHMENT'S OWN USE

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

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.

EMPLOYMENT:

AVERAGE NUMBER EMPLOYED

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

- administrative, technical and clerical employees
- 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 (i.e. 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 work in the business without receiving a wage or salary; but such persons, who work 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 cleaners. Staff engaged in transport (including roundsmen), or employed in warehouses, stores, shops and canteens, should be included only where separate accounts are not kept. Operatives engaged in outside work of erecting, fitting, etc. are also included, but outworkers 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.

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.

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 e.g. 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.

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.), 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.

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.

OPERATING RATIOS

The operating ratios shown are 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 establishments not selected 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 e.g. 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.

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 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 purchases 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 the suppliers and any trade discounts are excluded. Materials purchased duty-paid are included at their duty-paid value, less any drawback, rebate, etc. The cost of transport is included only if it is included with the purchase price in the firm's accounts. Imported goods are included at their full delivered cost. If in the firm's accounts the transport from docks or airport is not included in the cost of goods purchased, the cost is entered at cif plus duty (if applicable).

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.

REMUNERATION PAID TO OUTWORKERS

The remuneration paid to outworkers (i.e. 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.

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 covered by the inquiry. Sales of goods made for these establishments by outworkers or by other establishments from materials given out to them and sales of waste products are included. 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 engaged in production for which there are separate accounts, or to another establishment of the same firm not covered by the return are treated as sales by the producing establishment and valued as far as possible as if they had been sold to an independent purchaser. Goods transferred to wholesale or retail selling organisations, for which 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 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.

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 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 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 values of any payments in kind, travelling expenses, etc. is excluded.

Goods produced in one establishment and transferred to another...
The value of goods produced in one establishment and transferred to another...
The value of goods produced in one establishment and transferred to another...

WAGES AND SALARIES
These are amounts paid during the year to employees and to other...
These are amounts paid during the year to employees and to other...

EXPENSES
These are amounts paid during the year to other establishments...
These are amounts paid during the year to other establishments...

NET OUTPUT
The value of goods produced in one establishment and transferred to another...
The value of goods produced in one establishment and transferred to another...

NET OUTPUT PER HEAD
The figure of net output per head is calculated by dividing the net output...
The figure of net output per head is calculated by dividing the net output...

EMPLOYMENT
The number of persons employed in the industry is calculated by adding...
The number of persons employed in the industry is calculated by adding...

ADDITIONAL INFORMATION
The value of goods produced in one establishment and transferred to another...
The value of goods produced in one establishment and transferred to another...

OPERATING RATIO
The operating ratio is calculated by dividing the net output by the...
The operating ratio is calculated by dividing the net output by the...

WAGES AND SALARIES
These are amounts paid during the year to employees and to other...
These are amounts paid during the year to employees and to other...

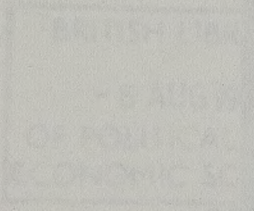
EXPENSES
These are amounts paid during the year to other establishments...
These are amounts paid during the year to other establishments...

NET OUTPUT
The value of goods produced in one establishment and transferred to another...
The value of goods produced in one establishment and transferred to another...

NET OUTPUT PER HEAD
The figure of net output per head is calculated by dividing the net output...
The figure of net output per head is calculated by dividing the net output...

EMPLOYMENT
The number of persons employed in the industry is calculated by adding...
The number of persons employed in the industry is calculated by adding...

ADDITIONAL INFORMATION
The value of goods produced in one establishment and transferred to another...
The value of goods produced in one establishment and transferred to another...



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