PA330

05/42 (HA 25)) 0_42

1980

BRITISH LIBRARY

2 00CT 1982 OF POLITICAL AND ECONOMIC SCIENCE **Business Statistics Office**

Business Monitor

Report on the Census of Production

Manufacture of office machinery and data processing equipment



PRICE INCREASES

Prices of Business Monitors in 1982 have been set to make some contribution for the first time 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 will include 1979 back data but more detailed 1979 figures based on the new classification will be published as a single separate Business Monitor (PA1002.1). This will also include 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 £20 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.

Enquiries:-

Business Statistics Office Cardiff Road Newport Gwent NPT 1XG

Tel: Newport 56111 (STD Code 0633) Ext 2455

Telex 497121 Answer Back BSONPTG

PA330

Business Monitor

A publication of the Government Statistical Service

Report on the Census of Production 1980

Manufacture of office machinery and data processing 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

The following is a list of 1980 Industry Reports based on the Standard Industrial Classification Revised 1980. The number of the Monitor will indicate each 3 digit Group industry of the new classification. This will produce about 110 Monitors in this series compared with around 165 Monitors in recent years.

HMSO will automatically supply the nearest comparable, and, if necessary, supplementary Monitors to all account holders. If your requirements are not fully met please consult the list printed below and advise HMSO.

If you have any enquiries about the new classification please ring Newport (STD 0633) 56111 Extension 2455.

PA100		PA352	
PA111	Coal extraction and manufacture of solid fuels	PA353	
PA120	Coke ovens	PA361	Shipbuilding and repairing
PA130	Extraction of mineral oil and natural gas	PA362	
PA140	Mineral oil processing	PA363	
PA161 PA162	Production and distribution of electricity	PA364	, i copuling
PA170	Public gas supply Water supply industry	PA365 PA371	
PA210	Extraction and preparation of metalliferous ores	FA3/1	Measuring, checking and precision instruments and apparatus
PA221	Iron and steel industry	PA372	Medical and surgical equipment and orthopædic
PA222	Steel tubes	17072	appliances
PA223	Drawing, cold rolling and cold forming of steel	PA373	Optical precision instruments and photographic
PA224	Non-ferrous metals industry		equipment
PA231	Extraction of stone, clay, sand and gravel	PA374	Clocks, watches and other timing devices
PA239	Extraction of miscellaneous minerals (including salt)	PA411	Organic oils and fats
PA241	Structural clay products	PA412	Processing of bacon, meat and poultry
PA242	Cement, lime and plaster	PA413	Preparation of milk and milk products
PA243	Building products of concrete, cement or plaster	PA414	Processing of fruit and vegetables
PA244	Asbestos goods	PA415	Fish processing
PA245	Working of stone and other non-metallic minerals	PA416	Grain milling
PA246	Abrasive products	PA419	Bread, biscuits and flour confectionery
PA247	Glass and glassware	PA420	Sugar and sugar by-products
PA248	Refractory and ceramic goods	PA421	Ice-cream, cocoa, chocolate and sugar confectionery
PA251	Basic industrial chemicals	PA422	Animal feeding stuffs
PA255	Paints, varnishes and printing ink	PA423	Starch and miscellaneous foods
PA256	Specialised chemical products mainly for industrial	PA424	Spirit distilling and compounding
	and agricultural purposes	PA426	Wines, cider and perry
PA257	Pharmaceutical products	PA427	Brewing and malting
PA258	Soap and toilet preparations	PA428	Soft drinks
PA259	Specialised chemical products mainly for household	PA429	Tobacco industry
D. 4.000	and office use	PA431	Woollen and worsted industry
PA260	Production of man-made fibres	PA432	Cotton and silk industries
PA311	Foundries	PA433	Throwing, texturing, etc. of continuous filament yarr
PA312	Forging, pressing and stamping	PA434	Spinning and weaving of flax, hemp and ramie
PA313	Bolts, nuts, washers, etc.; springs; non-precision	PA435	Jute and polypropylene yarns and fabrics
PA314	chains; metals treatment	PA436	Hosiery and other knitted goods
PA316	Metal doors, windows, etc. Hand tools and finished metal goods	PA437	Textile finishing
PA320	Industrial plant and steelwork	PA438	Carpets and other textile floorcoverings
PA321	Agricultural machinery and tractors	PA439	Miscellaneous textiles
PA322	Metal-working machine tools and engineers' tools	PA441	Leather (tanning and dressing) and fellmongery
PA323	Textile machinery	PA442	Leather goods
PA324	Machinery for the food, chemical and related	PA451	Footwear
	industries; process engineering contractors	PA453	Clothing, hats and gloves
PA325	Mining machinery, construction and mechanical	PA455	Household textiles and other made-up textiles
	handling equipment	PA456	Fur goods
PA326	Mechanical power transmission equipment	PA461 PA462	Sawmilling, planing, etc. of wood
PA327	Machinery for printing, paper, wood, leather, rubber,	1 A402	Manufacture of semi-finished wood products and
	glass and related industries: laundry and dry cleaning	PA463	further processing and treatment of wood
	machinery	PA464	Builders' carpentry and joinery Wooden containers
PA328	Miscellaneous machinery and mechanical equipment	PA465	
PA329	Ordnance, small arms and ammunition	PA466	Miscellaneous wooden articles
PA330	Manufacture of office machinery and data processing	1 A400	Articles of cork and plaiting materials, brushes and brooms
	equipment	PA467	
PA341	Insulated wire and cables	1 7407	Wooden and upholstered furniture and shop and
PA342	Basic electrical equipment	PA471	office fittings Pulp, paper and board
PA343	Electrical equipment for industrial use, and batteries	PA472	Conversion of paper and board
	and accumulators	PA475	
PA344	Telecommunication equipment, electrical measuring	PA481	Printing and publishing
	equipment, electronic capital goods and passive	PA483	Rubber products Processing of plastics
	electronic components	PA491	Processing of plastics
A345	Miscellaneous electronic equipment	PA492	Jewellery and coins Musical instruments
A346	Domestic-type electric appliances	PA494	Toys and sports goods
A347	Electric lamps and other electric lighting equipment	PA495	Miscellaneous manufacturing industries
A351	Motor vehicles and their engines	PA500	Construction
		DA 1000	Comments

PA1002 Summary tables

PA330 MANUFACTURE OF OFFICE MACHINERY AND DATA PROCESSSING EQUIPMENT

The information in this report relates to establishments classified to the Manufacture of office machinery and data processing equipment industry, Group 330 in the Standard Industrial Classification Revised 1980. The industry Group covers the following Activity Headings:—

3301 Office machinery

Manufacture of typewriters, duplicating machines, adding machines, calculating machines, cash registers, electronic desk calculators, non-electronic data processing and handling equipment, book-keeping machines, mail handling machines, ticket issuing machines and other machines for office use. Dictating machines are classified to Group 345. Offset litho duplicating machines are classified to Group 327. Document copiers and microfilms equipment are classified to Group 373. Facsimile transmission machines are classified to Group 344.

3302 Electronic data processing equipment

Manufacture of digital, analogue and hybrid electronic computer equipment and systems (except those which are not separable from industrial process control systems, which are classified to Group 344). This heading includes the manufacture of computer subassemblies and peripheral equipment.

For a full description of the 1980 classification see Standard Industrial Classification Revised 1980 obtainable from Her Majesty's Stationery Office, price £2.50.

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, 1979–1980	4
2	Capital expenditure, 1979–1980	5
3	Stocks and work in progress, 1979–1980	5
4	Analysis of establishments by size, 1980	6-7
5	Percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments, 1980	8
6	Operating ratios, 1979–1980	8

TABLE

PA330

PA330

Output and costs, 1979–1980
All United Kingdom establishments classified to the industry (a)

Unit		1979	1980
Number		237	24
p 345 Officer I (No. of the		259	27
£ million		1,139.6	1,189.
		157 1	211.4
Ascrist constays bus areas observery problems and a			211.4
		4.0	4.7
niardo 0000 letevaR ociden		10.8	12.9
"		131.3	138.3
" of the seed of		1,442.8	1,556.4
(A moust no appleasings)		on an being ni	
			27.0
		1,485.2	1,583.4
"		556.5	564.2
		114.3	119.8
,,		Additional and compared as	
,,			-14.4
			47.0
Th		787.6	838.0
		46.9	46.0
£		16,791	18,221
f million			
L million		7.8	9.0
		7.8	8.2
"			
,,			3.4
"			0.4
		42.0	44.8
		0.2	0.2
		5.0	6.0
"		720.9	765.9
£			
	Number " f million " " " " " " " " " " " " " " " " " "	Number f million Thousand f million million	Number 237 " 259 £ million 1,139.6 " 157.1 " 4.0 " 10.8 " 131.3 " 1,442.8 " 42.3 " 1,485.2 " 556.5 " 114.3 " 27.4 " 54.2 " 787.6 Thousand 46.9 £ 16,791 £ million 7.8 " 3.5 " 0.5 " 42.0 " 0.2 " 5.0 " 720.9

⁽a) Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census. Satisfactory returns accounted for 92 per cent of employment within the industry.

. 1070 1000	
eital expenditure, 1979—1980	
Capital expenditure, 1979—1980 All United Kingdom establishments classified to the inc	dustry (a)(b)

									£ million
Land and buildings		tg) seithburt	Wages and		Section 16 Section 1	Employme	1979	1980	Size 100
New building w						Total.	12.1	12.1	
Land and existi Acquisitions							0.7	2.4	
Dioperation	nolities 20						Nember	0.4	
Plant and machiner Acquisitions Disposals	oži ^s						38.2	43.3	
ehicles (c)							20	85 0.0	
Acquisitions							3.5	2.8	
Disposals							1.0	0.8	
Total net cap	pital expenditur	e 800 853	2.8	8.0			52.5	56.0	
					4				

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

TABLE 3

Stocks and work in progress, 1979—1980
All United Kingdom establishments classified to the industry (a)

	1979	1980	Value at end of 19	980
	Increas	e during year	412	lato?
aterials, stores and fuel	27.4	-14.4	151.7	(a)
ork in progress	15.4	21.1	199.6	
ork in progress	27.0	21.1	199.6 68.6	

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.

Capital expenditure in respect of manufacturing establishments where production had not commenced before the end of the year, is included.

For 1980 the values of acquisitions and disposals of motor cars were collected separately. These were £2,687 thousand and £800 thousand respectively, and are included in the values shown for vehicles.

419.9

TABLE 4

Analysis of establishments by size, 1980

All United Kingdom establishments classified to the industry (a)

Size group (b)	group lish- prises			Employment			Wages and salaries (g)			
			Total (e)	Opera- tives	Others (f)	Operatives		Others (f)	unialisa was	
						Total	per head	Total	per head	
25 10 St.	Number	Number	Thousand	Thousand	Thousand	£ million	£	£ million	£	
1–10	126	125	0.6)							
11–19	50	48	0.7	1.5	2.0	7.1	4.600	12.0	0.00-	
20–49	25	25	0.8)	1.5	2.0	7.1	4,629	13.0	6,625	
50-99	20	20	1.4)							
100-199	18	18	2.5	1.3	1.2	5.4	4,220	7.4	6,208	
200-299	3	3	0.7	0.3	0.5	1.1	4,379	3.1	6,771	
300–399	4	4	1.4	0.6	0.8	2.8	4,294	5.6	7,254	
400–499	6	6	2.5	1.1 Januar	1.5	4.5	4,212	9.4	6,451	
500-749	8	8	4.8	1.5	3.3	8.0	5,204	26.8	8,104	
750-1,499	4	4	4.0	2.5	1.5	13.3	5,221	8.5	5,733	
1,500-1,999	3	3	5.1	1.7	3.3	10.5	6,026	27.9	8,380	
2,000 and over	4	4	21.3	10.1	11.3	49.2	4,881	75.9	6,743	

Total	271	244	46.0	20.7	25.2	102.0	4,924	177.7	7,043

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

Total sales and work done (h)	Gross output	Net output		Gross value added at factor cost	9.8	Net capital expenditure (j)	Total stocks and work in progress at end of year
Total territorial section of the sec	the present of the property of	Total	per head	Total	per head		
£million	£ million	£ million	£	£ million	£	£ million	£ million
88.5	95.8	53.9	15,152	(k)	(k)	3.4	26.6
47.4	50.8	27.8	11,246	70.5(k)	11,689(k)	2.4	15.3
16.6	21.6	7.8	11,011	6.2	8,724	1.0	9.3
34.3	38.3	16.1	11,345	13.4	9,452	1.2	10.0
67.5	69.7	27.8	10,942	22.4	8,811	0.9	25.3
109.0	112.4	68.4	14,125	53.7	11,087	6.2	33.9
76.0	71.4	27.8	6,924	24.4	6,072	2.5	25.1
272.7	268.6	96.2	18,957	89.1	17,573	8.2	62.8
844.4	854.8	512.1	23,988	486.1	22,771	30.1	211.6

1,556.4

⁽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.

⁽f) Administrative, technical and clerical employees.

The cost of employers' contributions to national insurance, pensions and welfare schemes and the running costs of canteens, is estimated for the industry at £49.5 million. The remuneration of outworkers on returns received was £102 thousand.

⁽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 merchanted goods.

⁽i) 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.

TARLE 5

Percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments, 1980

Accounting year end	led	Percenta	ge of total returns	received	Percentage of total	Percentage of total number employed			
15.4805010-18-8 c	oruginadae 10	per cent	ra bobbs		per cent		Alow I		
1980 April (a)		8.9			3.8				
May		-			Owner—e				
June		5.4			2.6				
July		1.8			0.2				
August September		5.4			20.4				
October		190 _			7.1 - 0.88,839				
November		8.9			13.3				
December		37.5			26.4				
1981 January		1.8			0.2				
February		3.6			1.3				
March (b)		118 26.3			32.0				
							THE RESERVE THE PARTY NAMED IN		

From 6th April.

Including returns made for twelve-month period ended 1st to 5th April 1981.

TABLE 6

Operating ratios, 1979-1980 All United Kingdom establishments classified to the industry (a)

and the same of th	Unit		1979	1980	
Gross output per head	£		31,663	34,428	
Net output per head	£		16,791	18,221	
Gross value added per head	£		15,370	16,653	
Gross value added as a percentage of gross output	%		0.202 49	48	
Ratio of gross output to stocks			3.2	3.8	
Wages and salaries as a percentage of gross value added	%		35	revolume to 37	
Ratio of operatives to administrative, technical and clerical employees			0.9	0.8	
Vages and salaries per administrative, echnical and clerical employee	£		6,214	7,043	
Nages and salaries per operative	£		4,303	4,924	
Net capital expenditure per head	£		1,120	1,217	
Net capital expenditure as a percentage of gross value added	%		. 7	7	

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

NTES

PA330

se notes give the main information needed for interpreting the ures in the industry Business Monitors: more detailed information nut the census is given in a separate Business Monitor - PA1001 reductory Notes) of the Report on the Census of Production.

ENERAL INFORMATION

HANGES MADE FOR 1980

1980 census differed from the 1979 in three main respects. etions relating to standard cost stocks and road transport costs are removed from the questionnaire. Motor cars have been separely identified in the capital expenditure questions in order to tin the 1980 rebasing of national accounts. Sampling arrangeits were extended as detailed in the para headed Coverage. ere are also two major changes in the presentation of census Publication of the Business Monitor PA1000 showing proonal results has been discontinued, and industry reports are being ed, whenever possible, for each 3 digit Group of the SIC Revised A limited range of information for most 4 digit Activity edings is published in the Summary Volume (PA1002). Regional lts are restricted to 2 digit class level, and appear only in the

DUSTRIAL CLASSIFICATION

1980 census is the first being conducted on the SIC (Revised 10). The United Kingdom SIC was first issued in 1948 and sed in 1958, 1968 and 1980. It exists to promote uniformity nd comparability in the official statistics of the United Kingdom. for to the 1980 revision the general principles followed were those the International Standard Industrial Classification of all omic Activities of the United Nations Statistical Office but for 1980 revision an attempt was made to align the United Kingdom ssification as closely as practicable with NACE, the classification use by the Statistical Office of the European Community. The C is a classification by activity and not a commodity classi-

TATISTICAL UNIT

he statistical unit for the purpose of the census is the establishnt, which is defined in the SIC as the smallest unit which can vide the information normally required for an economic census, example, employment, expenses, turnover, and capital formon Usually the principal activities carried on in an establishment within a single heading of the classification (e.g. steel making or gar refining). Typically the establishment embraces all the activi carried on at a single address e.g. a mine or factory, including se which are ancillary to the principal activities. Frequently inct activities characteristic of different industries are carried on one address, but normally these are not classified separately and whole establishment is classified according to the main activity. owever, the required range of data can be provided for each vity, each is taken to constitute a separate establishment. Some nes activities which are conducted as a single business are carried at a number of addresses. Where this is so, businesses are asked provide the full range of information in respect of each address, ther or not the activities are different. Their activities may ever, be intergrated to such an extent that they constitute a gle establishment. In the latter case the establishment is defined cover the combined activities at these addresses (termed local Separate figures of employment and net capital expenditure obtained for each local unit in order to compile regional tables. forts are made by the BSO to ensure, by negotiating with respon nts, that the return from an establishment does not cover local its in more than one of the countries of the United Kingdom.

tablishments are asked to exclude from their returns particulars ting to any department not engaged in production e.g. merting, transport or warehousing, for which they keep a separate of accounts. Transfers of goods produced to such departments treated as sales and respondents are asked to value them as far as ble as if sold to an independent purchaser. Where separate unts are not kept, responders are asked to include details of all se activities in their return. Particulars relating to head offices nly engaged in the administration of the production units within scope of the census are included. Where more than one return is de the information in respect of the head office is apportioned ng them. For certain purposes in the censuses of production 9. for disclosure testing and the preparation of the enterprise yses shown in Business Monitor PA1002) related establishments combined to enterprise level. An enterprise group is defined as a ess consisting of either a single establishment or two or more blishments under common ownership or control. Information ut relationships between establishments, the changing structure groups of companies and about common ownership links is ned from many sources, including the Stock Exchange Year ok, company reports, press reports, and information supplied by ividual establishments.

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 units 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-rota 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 5 of the SIC (Revised 1980)). The Channel Islands and the Isle of Man are excluded

Under the sampling arrangements agreed for the 1980 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 18,965.

In the construction industry all undertakings employing 50 or more were selected. The 1 in 2 sample for undertakings with 20 to 49 employees introduced for the 1979 census was repeated, but the 5 per cent sample of undertakings with fewer than 20 employees was discontinued. This resulted in a reduction in the number of forms sent out to 6,500, which is about one half of the average mailed for the years upto 1978.

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.
- 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

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.

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.

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.

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. Deductable value added tax is excluded but nondeductible 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 week of each calendar month. Establishments from also required to state the number of working proprietors where appropriate and to state the number of working proprietors. Full-time 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 materi 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

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.

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, travell and all office employees.

Operatives include all other classes of employees, that is, broadly speaking, all manual wage earners. They include operative employed in power stations, inspectors, maintenance workers and 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 comme insurance premiums to provide pensions, superannuation or of retirement benefits, sickness benefits, personal accident benefit disability or death benefits for employees or former employ or their dependants.

Contributions to the running costs of canteens, social centres children's and holiday homes, etc. for employees, former employee 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 wi drivers), commercial insurance premiums, bank charges and amo paid for professional services, post office services, transport (wit 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

GROSS VALUE ADDED AT FACTOR COST PER HEAD

The figures of gross value added at factor cost per head are deriv by dividing the gross value added by the average number of person 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, of increased by the fall, during the year of stocks of materials, etc.) the cost of industrial services received and where applicable, duties,

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 operative administrative, technical and clerical employees and working proprietors, but excluding outworkers.

ION-INDUSTRIAL SERVICES RENDERED

ncludes rents received for commercial and industrial buildings. ints charged for hiring out plant, machinery and vehicles and her goods and amounts charged to other organisations for the her goods of transport. It also includes amounts received for the ovision of datents, trademarks, copyrights etc., manufacturing quarrying rights and technical "know-how" and revenue from staff facilities as canteens.

FRATING RATIOS

operating ratios shown are obtained by dividing the estimate of industry total for the quantity shown in the numerator by the ponding estimate for the quantity shown in the denominator. e estimates cover all establishments classified to each industry, ng establishments not selected and non-respondents. Within ndustry, it is possible to compare ratios for an individual firm the ratios shown for the relevant industry. However, it is rtant to bear in mid that various factors may affect the results differences in definitions, treatment of depreciation (which is identified in the census data) and varying practice with regard to ck valuation, may affect comparability in some respects.

hases include the cost of raw materials, components, seminufactured goods and workshop materials; of replacement parts consumable tools not charged to capital account; of packaging ials of all types; of stationery and printed matter; of fuel etricity and water; of materials to be used by the establishment given out to other establishments for the production of inery or other capital items for the establishment's own use; materials for use by the establishment when working on goods opplied by customers; and of food, etc. for any canteen covered the establishment's return. Transfers of goods to the estabnent from another department of the same firm not covered by establishment's return are included at a cost corresponding to estimated selling value recorded by the other department. ounts payable to transport firms or credited to the firm's own asport department for delivery of materials are excluded, as are nurchases of machinery and plant charged to capital account. chases of goods for merchanting or factoring have been collected parately since 1973. The values shown exclude VAT. clude, in addition to the actual purchase price, the value of packing material charged to the establishment. The value of returned goods or packaging material returned to the suppliers and any trade counts are excluded. Materials purchased duty-paid are included their duty-paid value, less any drawback, rebate, etc. The cost of isport is included only if it is included with the purchase price the firm's accounts. Imported goods are included at their full vered cost. If in the firm's accounts the transport from docks or port is not included in the cost of goods purchased, the cost is ered at cif plus duty (if applicable).

ECEIPTS FOR WORK DONE AND INDUSTRIAL SERVICES NDERED

oures for work done represent the amount charged for work ried out on materials supplied by a customer and include repair work. Within certain industries this heading covers a wide variety of tivities, for example, within the food sector - butter packed on nission; within the textile industries - making up of garments, fur dressing and textile finishing; within printing and publishing paratory work on type-setting, block making and binding. Work done is also significant in the electrical machinery and heavy neering industries, covering erection, installation and repair and ing work. Other activities within this heading include loration work, research and development, glass-cutting and ing and planing of timber.

strial services rendered include repairs and maintenance, installon work, and technical research and studies for other organ-

EMUNERATION PAID TO OUTWORKERS

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

LES OF GOODS PRODUCED

es for the purposes of the annual censuses means deliveries on ale of goods made by establishments in the United Kingdom vered by the inquiry. Sales of goods made for these establishents by outworkers or by other establishments from materials ven out to them and sales of waste products are included. Orward sales and canteen takings are excluded. All sales in the eriod of the inquiry are included irrespective of when the goods 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 independant 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 exworks 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

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

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.

© Crown copyright 1982

Her Majesty's Stationery Office

Government Bookshops

49 High Holborn, London WC1W6HB
13a Castle Street, Edinburgh EH2 3AR
41 The Hayes, Cardiff CF1 1JW
Brazennose Street, Manchester M60 8AS
Southey House, Wine Street, Bristol BS1 2BQ
258 Broad Street, Birmingham B1 2HE
80 Chichester Street, Belfast BT1 4JY

Government publications are also available through booksellers

'Brief extracts from this publication may be reproduced provided the source is fully acknowledged. Proposals for reproduction of larger extracts should be addressed to the Librarian, Business Statistics Office, Newport, Gwent NPT 1XG.'