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15 JUL 1982 FPOLITICAL AND ONOMIC SCIENCE **Business Statistics Office**

Business Monitor

Report on the Census of Production

Electric lamps and other electric lighting equipment

HMSO



A publication of the Government Statistical Service

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.

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Business Monitor

A publication of the Government Statistical Service

Report on the Census of Production 1980

Electric lamps and other electric lighting 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

LIST OF INDUSTRY REPORTS

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,

	1 Introductory notes	PA352	and cardy and cardy all
PA111		PA353	
PA120		PA361	Shipbuilding and repairing
PA130 PA140		PA362	, , , , , , , , , , , , , , , , , , , ,
PA161	Production and distribution of electricity	PA363	Cycles and motor cycles
PA162		PA364 PA365	Aerospace equipment manufacturing and repairing
PA170		PA371	Miscellaneous vehicles
PA210		FA3/1	Measuring, checking and precision instruments and
PA221	Iron and steel industry	PA372	apparatus
PA222	Steel tubes	. TA372	Medical and surgical equipment and orthopaedic
PA223	Drawing, cold rolling and cold forming of steel	PA373	appliances
PA224	Non-ferrous metals industry	1 4373	Optical precision instruments and photographic 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
	and office use	PA431	Woollen and worsted industry
A260	Production of man-made fibres	PA432	Cotton and silk industries
A311	Foundries	PA433	Throwing, texturing, etc. of continuous filament yarr
A312	Forging, pressing and stamping	PA434	Spinning and weaving of flax, hemp and ramie
A313	Bolts, nuts, washers, etc.; springs; non-precision	PA435	Jute and polypropylene yarns and fabrics
4044	chains; metals treatment	PA436	Hosiery and other knitted goods
A314	Metal doors, windows, etc.	PA437	Textile finishing
A316 A320	Hand tools and finished metal goods	PA438	Carpets and other textile floorcoverings
A320	Industrial plant and steelwork	PA439	Miscellaneous textiles
A322	Agricultural machinery and tractors	PA441	Leather (tanning and dressing) and fellmongery
A323	Metal-working machine tools and engineers' tools	PA442	Leather goods
A324	Textile machinery	PA451	Footwear
A024	Machinery for the food, chemical and related	PA453	Clothing, hats and gloves
A325	industries; process engineering contractors	PA455	Household textiles and other made-up textiles
7020	Mining machinery, construction and mechanical	PA456	Fur goods
A326	handling equipment	PA461	Sawmilling, planing, etc. of wood
4327	Mechanical power transmission equipment	PA462	Manufacture of semi-finished wood products and
1027	Machinery for printing, paper, wood, leather, rubber,		further processing and treatment of wood
	glass and related industries: laundry and dry cleaning machinery	PA463	Builders' carpentry and joinery
A328		PA464	Wooden containers
	Miscellaneous machinery and mechanical equipment Ordnance, small arms and ammunition	PA465	Miscellaneous wooden articles
	Manufacture of office machine	PA466	Articles of cork and plaiting materials, brushes and
	Manufacture of office machinery and data processing equipment		brooms
	Insulated wire and cables	PA467	Wooden and upholstered furniture and shop and
	Basic electrical equipment		office fittings
		PA471	Pulp, paper and board
	Electrical equipment for industrial use, and batteries and accumulators	PA472	Conversion of paper and board
		PA475	Printing and publishing
	Telecommunication equipment, electrical measuring	PA481	Rubber products
	equipment, electronic capital goods and passive electronic components	PA483	Processing of plastics
345	Miscellaneous electronic equipment	PA491	Jewellery and coins
	Domestic-type electric appliances	PA492	Musical instruments
	- smoothe type electric appliances	PA494	Toys and sports goods
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347	Electric lamps and other electric lighting equipment	PA495	Miscellaneous manufacturing industries
347	Electric lamps and other electric lighting equipment Motor vehicles and their engines	PA500	

PA347 ELECTRIC LAMPS AND OTHER ELECTRIC LIGHTING EQUIPMENT

PA347

The information in this report relates to establishments classified to the Electric lamps and other electric lighting equipment industry, Group 347 in the Standard Industrial Classification Revised 1980. The industry Group covers the following Activity Heading:—

2470 Electric lamps and other electric lighting equipment

1. Electric lamp bulbs and tubes

Manufacture of electric lamp bulbs and tubes of all types, including incandescent lamps and fluorescent tubes, gas discharge lamps, neon lamps, infra-red and ultra-violet lamps and photographic flash lamps.

2. Other electric lighting equipment

Manufacture of electric lighting equipment for indoor and outdoor use (including accessories and components not classified to Group 342). Search lights, stage lighting and portable light sources with own power source are included. Lighting equipment for vehicles is classified to Group 343.

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.

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

	Unit	an artisticing variations tubes	1979	1980
Enterprises	Number		496	492
Establishments	use (including socce s wips		542	534
Sales of goods produced	£ million		437.8	489.4
Receipts for work done and industrial services rendered	sado C391 beriveA noitesi		2.1	3.9
Capital goods produced for establishments' own use				
Non-industrial services rendered	" STATE OF THE PROPERTY AND		0.7	1.5
			1.3	1.0
Goods merchanted or factored	"		29.5	48.5
Total sales and work done	"		471.5	544.2
Increase during the year, work in				
progress and goods on hand for sale	"		6.9	8.1
Gross output			478.4	552.3
Purchases of materials for use in pro-				332.0
duction, and packaging and fuel	"		231.6	230.3
Purchases of goods for merchanting or				
actoring	"		22.3	33.5
ncrease during the year, stocks of				
naterials, stores and fuel	"		7.6	-7.1
ost of industrial services received	"		9.5	8.6
Net output	"		222.6	
otal employment (b)	Thousand	wood and worsteen	I manage	272.9
			30.9	28.1
Net output per head	£		7,202	9,715
yments for non-industrial services				
Hire of vehicles, plant and				
machinery	£ million		1.1	2.1
Rents of industrial and commercial				
buildings	"		1.6	2.6
Commercial insurance premiums			1.9	2.2
Bank charges			0.1	
Other non-industrial services	,,		0.1	0.2
			18.2	21.5
censing of motor vehicles	"		0.1	0.1
tes, excluding water rates	"		3.0	3.7 10 18
Gross value added at factor cost	"			
Gross value added at factor cost			196.5	240.5
per head	£		6,359	8,564

⁽a) Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census. Satisfactory returns accounted for 78 per cent of employment within the industry.

Capital expenditure, 1979—1980
All United Kingdom establishments classified to the industry (a)(b)

								£ million
U STORE CONTROL		Wages and			racinologina -	1979	1980	guong guong
Land and buildings				¥		16)	enara (a)	100
New building work						1.3	1.1	
Land and existing buildings								
Acquisitions						0.9	1.7	
Disposals			bossion			0.4	sedmulA	
Plant and machinery								
Acquisitions						12.9	10.2	
Disposals						0.4	0.2	
/ehicles (c)								
Acquisitions						2.4	1.8	
Disposals						0.9	0.6	
Total net capital expendi	ture					15.8	14.0	

⁽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, 1979—1980
All United Kingdom establishments classified to the industry (a)

	2	m	я	п	٠	_

				£ million
		1979	1980	Value at end of 1980
275.8 30.836C		Increase	e during year	
Materials, stores and fuel		7.6	−7.1	47.1
Work in progress		2.6	-0.9	18.5
Goods on hand for sale		4.3	9.0	35.4
Total		14.5	1.0	100.9

⁽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.

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

⁽c) For 1980 the values of acquisitions and disposals of motor cars were collected separately. These were £1,436 thousand and £551 thousand respectively, and are included in the values shown for vehicles.

Analysis of establishments by size, 1980
All United Kingdom establishments classified to the industry (a)

Size group (b)	1861	Estab- lish- ments (c)	Enter- prises (d)			Wages and	salaries (g)				
				Total (e)	Opera- tives	Others (f)	Operatives	43	Others (f)	The house of	
							Total	per head	Total	per head	
		Number	Number	Thousand	Thousand	Thousand	£ million	£	£ million	£	
1–10		303	297	1.4)							
11-19		74	72	1.1			10.0				
20-49		78	76	2.4)	5.1	2.0	19.9	3,937	11.6	5,946	
50-99		35	34	2.5)							
100-199		17	16	2.3	1.6	0.6	6.1	3,724	3.6	5,801	
200-299		8	8	1.9	1.4	0.5	5.6	3,959	2.8	5,584	
300-399		4	4	1.3	1.1	0.2	4.1	3,839	1.3	5,184	
100-499		5	5	2.1	1.6	0.5	6.1	3,740	2.8	5,634	
500-749		3	3	1.7	1.1	0.6	5.8	5,508	3.8	5,967	
50 and over		7	4	11.4	9.1	2.3	37.6	4,142	10.5	4,548	

Total	534	492	28.1	20.9	6.8	85.2	4,070	36.5	5,379

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

Total sales and work	Gross output	Net output	<i>y</i>	Gross value added at factor cost		Net capital expenditure (j)	Total stocks and work in progress at
done (h)							end of year
		Total	CONTRACTOR	Total	nor.		
		Total	per head	TOtal	per head		
£ million	£ million	£ million	£	£ million	£	£ million	£ million
150.1	153.7	68.7	9,325	(k)	(k)	3.3	34.9
			a ar Circovisus e in 19045 and				
51.2	53.6	25.4	11,201	78.5(k)	8,154(k)	1.3	14.4
34.1	34.6	15.2	7,862	13.0	6,751	0.6	5.6
21.6	21.6	11.9	9,138	10.2	7,818	0.2	3.5
37.4	38.3	20.2	9,503	19.0	8,908	1.1	7.9
33.2	34.2	16.6	9,800	14.5	8,532	0.8	8.2
216.5	216.3	114.8	10,079	105.3	9,244	6.8	26.5
210.0	219.0						

(1)				
(1)	Administrative	technical	and clerical	employees

552.3

240.5

8,564

14.0

100.9

9,715

272.9

⁽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.

⁽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 £19.0 million. The remuneration of outworkers on returns received was £85 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.

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

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

Account	ing year ended		Percent	age of total ret	urns received		Percentage of	total number e	mployed
Cartana un sa famuos	e ejimbreike	- Paleon	per cen	t ta babba tactor cost			per cent		NO NO
1980	April (a)		4.0				0.8		
	May		4.0				2.1		
	June		10.8				3.0		
	July						nolition 3		
	August		1.4				0.2		
	September		1.4				0.3		
	October		4.0				3.2		
	November		1.4				0.2		
	December		37.8			:	21.4		
1981	January 8.0		2.7				0.7		
	February		2.7				3.1		
	March (b)		29.7			(65.0		

From 6th April

TABLE 6

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

	Unit		1979	1980
Gross output per head	£		15,476	10.664
Net output per head	£		7,202	19,664 9,715
Gross value added per head	£		6,359	8,564
Gross value added as a percentage of gross output	%		41	44
Ratio of gross output to stocks			5.3	5.5
Nages and salaries as a percentage of pross value added	%		59	51
Ratio of operatives to administrative, echnical and clerical employees			3.9	3.1
Vages and salaries per administrative, echnical and clerical employee	£		5,119	5,379
Vages and salaries per operative	£		3,465	4,070
let capital expenditure per head	£		511	500
let capital expenditure as a percentage f gross value added	%		8	6

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

NOTES

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ness notes give the main information needed for interpreting the These notes give the main information needed for interpreting the figures in the industry Business Monitors: more detailed information out the census is given in a separate Business Monitor - PA1001 troductory Notes) of the Report on the Census of Production,

ENERAL INFORMATION

CHANGES MADE FOR 1980 the 1980 census differed from the 1979 in three main respects. lestions relating to standard cost stocks and road transport costs were removed from the questionnaire. Motor cars have been separidentified in the capital expenditure questions in order to sist in the 1980 rebasing of national accounts. Sampling arrangeents were extended as detailed in the para headed Coverage. here are also two major changes in the presentation of census sults. Publication of the Business Monitor PA1000 showing prosional results has been discontinued, and industry reports are being sued, whenever possible, for each 3 digit Group of the SIC Revised A limited range of information for most 4 digit Activity Headings is published in the Summary Volume (PA1002). Regional sults are restricted to 2 digit class level, and appear only in the nmary Volume

NOUSTRIAL CLASSIFICATION

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

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 ugar refining). Typically the establishment embraces all the activities carried on at a single address e.g. a mine or factory, including lose which are ancillary to the principal activities. Frequently listinct 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. however, the required range of data can be provided for each activity, each is taken to constitute a separate establishment. Someimes 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, owever, be intergrated 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 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. mer-chanting, 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 ossible as if sold to an independent purchaser. Where separate counts are not kept, responders are asked to include details of all hese activities in their return. Particulars relating to head offices nainly engaged in the administration of the production units within the scope of the census are included. Where more than one return is hade the information in respect of the head office is apportioned ng 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 siness consisting of either a single establishment or two or more stablishments under common ownership or control. Information about relationships between establishments, the changing structure of groups of companies and about common ownership links is btained from many sources, including the Stock Exchange Year ok, company reports, press reports, and information supplied by ndividual 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 quar terly 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

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

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

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

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.

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

CAPITAL GOODS PRODUCED FOR AN ESTABLISHMENT'S OWN USF

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 lag-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 employee by establishments who worked in their own homes, etc. on mate by establishments who worked it recorded. The figures included supplied by the establishment) are excluded. The figures included in the figures in the supplied by the establishment, are extended. The figures include persons engaged on merchanting or factoring and canteen works where particulars in respect of these activities could not be exclude from the return.

WORKING PROPRIETORS

WORKING PROPRIETURS
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 as excluded. Directors working in the business but not in receipt of definite wage, salary, or commission are included under heading: directors paid by fee only are not included.

Administrative, technical and clerical employees include director in receipt of a definite wage, salary, or commission, managers and works foremen; research and design employees (other than administration). operatives); draughtsmen, editorial staff, advertising staff, traveller 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) employed in warehouses, stores, shops and canteens, should included only where separate accounts are not kept. Operative engaged in outside work of erecting, fitting, etc. are also include but outworkers are excluded

EMPLOYERS' INSURANCE AND WELFARE CONTRIBUTIONS This item includes employers' contributions to national insurange under the Social Security Pensions Act, 1975, as well as commercial commercial security Pensions Act, 1975, as well as a security Pension P insurance premiums to provide pensions, superannuation or othe 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 employe and their dependants are also included.

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 building hire of plant, machinery and vehicles (excluding vehicles hired wi drivers), commercial insurance premiums, bank charges and amoun paid for professional services, post office services, transport (wit the United Kingdom) and advertising, rates (excluding water ra and the cost of licensing motor vehicles. This estimate of ground value added approaches more closely than census net output to the definition of net output or value added in national accou

GROSS VALUE ADDED AT FACTOR COST PER HEAD

The figures of gross value added at factor cost per head are derive 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 cler 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, 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 ne output by the average number of persons employed (full and par time) on all activities covered by the returns, including operative administrative, technical and clerical employees and worki proprietors, but excluding outworkers.

NON-INDUSTRIAL SERVICES RENDERED non-invocation received for commercial and industrial buildings, is includes that for hiring out plant, machinery and vehicles and ler goods and amounts charged to other organisations for the goods and transport. It also includes amounts received 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 the staff facilities as canteens sich staff facilities as canteens.

OPERATING THE OPERATION SHOWN are obtained by dividing the estimate of the industry total for the quantity shown in the numerator by the nonding estimate for the quantity shown in the denominator. responding scover all establishments classified to each industry, luding 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 with the ratios shown for the relevant industry. However, it is important to bear in mid that various factors may affect the results eg differences in definitions, treatment of depreciation (which is not identified in the census data) and varying practice with regard to nck valuation, may affect comparability in some respects.

chases include the cost of raw materials, components, semianufactured 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 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 supplied by customers; and of food, etc. for any canteen covered the establishment's return. Transfers of goods to the estabment 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. nounts 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. chases 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 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

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 ngineering 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.

Industrial services rendered include repairs and maintenance, installation work, and technical research and studies for other organ-

REMUNERATION PAID TO OUTWORKERS

he 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

les for the purposes of the annual censuses means deliveries on sale of goods made by establishments in the United Kingdom overed 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. orward sales and canteen takings are excluded. All sales in the period of the inquiry are included irrespective of when the goods re 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 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.

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