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HMSO

Business Statistics Office

Business Monitor

Report on the Census of Production

Abrasive products



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.

Enquiries:---

Business Statistics Office Cardiff Road Newport Gwent NPT 1XG

Newport 56111 (STD Code 0633) Ext 2455 Tel: Telex 497121 Answer Back BSONPTG

Report on the Census of Production 1980

Abrasive products

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)

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Department of Industry Business Statistics Office

Business Monitor

A publication of the Government Statistical Service

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.

PA1001		PA352	Motor vehicle bodies, trailers and caravans
PA111	Coal extraction and manufacture of solid fuels	PA353	Motor vehicle parts
PA120	Coke ovens	PA361	Shipbuilding and repairing
PA130	Extraction of mineral oil and natural gas	PA362	Railway and tramway vehicles
PA140	Mineral oil processing	PA363	Cycles and motor cycles
PA161	Production and distribution of electricity	PA364	Aerospace equipment manufacturing and repairin
PA162	Public gas supply	PA365	Miscellaneous vehicles
PA170	Water supply industry	PA371	Measuring, checking and precision instruments an
PA210	Extraction and preparation of metalliferous ores	·	apparatus
PA221 PA222	Iron and steel industry Steel tubes	PA372	Medical and surgical equipment and orthopædic 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 confection
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
PA260	Production of man-made fibres	PA432	Cotton and silk industries
PA311	Foundries	PA433	Throwing, texturing, etc. of continuous filament
°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
	chains; metals treatment	PA436	Hosiery and other knitted goods
°A314	Metal doors, windows, etc.	PA437	Textile finishing
°A316	Hand tools and finished metal goods	PA438	Carpets and other textile floorcoverings
A320	Industrial plant and steelwork	PA439	Miscellaneous textiles
'A321	Agricultural machinery and tractors	PA441	Leather (tanning and dressing) and fellmongery
A322	Metal-working machine tools and engineers' tools	PA442	Leather goods
A323	Textile machinery	PA451	Footwear
A324	Machinery for the food, chemical and related	PA453	Clothing, hats and gloves
	industries; process engineering contractors	PA455	Household textiles and other made-up textiles
A325	Mining machinery, construction and mechanical	PA456	Fur goods
	handling equipment	PA461	Sawmilling, planing, etc. of wood
A326	Mechanical power transmission equipment	PA462	Manufacture of semi-finished wood products and
A327	Machinery for printing, paper, wood, leather, rubber.		further processing and treatment of wood
	glass and related industries: laundry and dry cleaning	PA463	Builders' carpentry and joinery
	machinery	PA464	Wooden containers
A328	Miscellaneous machinery and mechanical equipment	PA465	Miscellaneous wooden articles
A329	Ordnance, small arms and ammunition	PA466	
A330	Manufacture of office machinery and data processing	1 7400	Articles of cork and plaiting materials, brushes and brooms
	equipment	PA467	
A341	Insulated wire and cables	1,407	Wooden and upholstered furniture and shop and
	Basic electrical equipment	PA471	Office fittings
	Electrical equipment for industrial use, and batteries		Pulp, paper and board
	and accumulators	PA472	Conversion of paper and board
	Telecommunication equipment, electrical measuring	PA475	Printing and publishing
	equipment, electronic capital goods and passive	PA481	Rubber products
	electronic components	PA483	Processing of plastics
	Miscellaneous electronic equipment	PA491	Jewellery and coins
		PA492	Musical instruments
4345 1	Domestic-type electric appliance		
4345 I 4346 I	Domestic-type electric appliances	PA494	Toys and sports goods
4345 4346 4347	Domestic-type electric appliances Electric lamps and other electric lighting equipment Motor vehicles and their engines		

PA246 ABRASIVE PRODUCTS

The information in this report relates to establishments classified to the Abrasive products industry, Group 246 in the Standard Industrial The information methods by the industry Group covers the following Activity Heading:-

Abrasive products

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Manufacture of abrasive products other than grindstones and millstones cut from natural stone (classified to Group 245) including articles of bonded natural or artificial abrasives, of natural or artificial diamonds, and articles of natural or artificial abrasives cemented to a base. The manufacture of artificial abrasive grains is included but not the preparation of natural abrasive grains which is classified to Group 245 and metallic abrasives which is classified to Group 316.

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

	In interpreting the data in the tables it is essential to
	in mind the notes and definitions which commence on
	2.01
	93.5
OF CONTE	INTS
10	Title
1	Output and costs, 1979–1980
2	Capital expenditure, 1979–1980
3	Stocks and work in progress, 1979–1980
4	Analysis of establishments by size, 1980
5	Percentage analysis of twelve-month periods covered by returns received fro
	Kingdom establishments, 1980
6	Operating ratios, 1979–1980

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TABLE 1

Output and costs, 1979-1980

All United Kingdom establishments classified to the industry (a)

	Unit		1979	1980
Enterprises	Number		105	116
Establishments	negon hard too jud be		121	132
Sales of goods produced	£ million		160.1(b)	150.9
Receipts for work done and industrial services rendered	niedo 0891 boaveñ n "		(b)	0.6
Capital goods produced for establish- ments' own use	essed of leftmases		0.3	0.4
Non-industrial services rendered	"	to found all solution and show of a show and	0.4	0.5
Goods merchanted or factored			17.8	19,3
Total sales and work done	"		178.6	171.6
Increase during the year, work in progress and goods on hand for sale	"		2.3	-0.5
Gross output			180.9	171.1
Purchases of materials for use in pro- duction, and packaging and fuel	"		70.2	73.6
Purchases of goods for merchanting or factoring	"		14.0	13.4
ncrease during the year, stocks of naterials, stores and fuel	"		1.0	1.0
Cost of industrial services received			4.2	3.1
Net output			93.5	82.1
otal employment (c)	Thousand		8.6	7.9
Net output per head	£		10,902	10,450
ayments for non-industrial services				
Hire of vehicles, plant and machinery	£ million		1.0	1.1
Rents of industrial and commercial buildings			ainci ant teal.	
Commercial insurance premiums			0.3	0.3
Bank charges			0.9	0.9
Other non-industrial services			0.2	0.1
icensing of motor vehicles	"		7.8	7.2
ates, excluding water rates	"		0.1	0.1
Gross value added at factor cost			1.3	1.7
Gross value added at factor cost per head	£		81.9	70.8

Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census. (a) Satisfactory returns accounted for 76 per cent of employment within the industry.

4

Receipts for work done and industrial services rendered included in sales of goods produced. (b)

Average number employed, during the year, including full and part-time employees and working proprietors. (c)

PA246 TABLE 2

apital expenditure, 1979-1980

ified to the industry (a)(b)

All United Kingdom establ	IISHIMENUS C	lassified to	ine maas						£ million
	coursest(p)	et seleries	WebgeW		Gross 1996 adaet in factor non	Employe	1979	1980	28512
Land and buildings									
NEW Dallans							0.5	1.0	
Land and existing build	dings								
Acquisitions)) -0.1 net)	0.6 net	
Disposals)							(Number)		
Plant and machinery									
Acquisitions							3.7)	3.9 net	
Disposals							0.2)		
_{Vehicles} (c)									
Acquisitions							1.7	1.4	
Disposals							0.6	0.5	
Total net capital ex	nenditure						5.0	6.5	
lotal net capital es	chematrate	10553	6.11	Concentration Sect.	22.0	38	5	The second second	new pas an

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

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 £1,342 thousand and £499 thousand respectively, and are included in the values shown for vehicles.

ABLE 3

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

terials, stores and fuel Work in progress oods on hand for sale Total

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

5

		± mii	lion
1979	1980	Value at end of 198	30
Increase	during year	82.0	Tota
1.0	ilatio 1.0 estar	17.3	
0.8	-0.5	8.7	
1.0	-0.1	16.0	
	0.5		
		Contraction of the second s	1111111111111

TABLE 4

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

Size group (b)	Estab- Enter- Employment lish- prises ments (d) (c)			Wages and	salaries (g)		and building		
			Total (e)	Opera- tives	Others (f)	Operatives	10	Others (f)	rembind wa
Passangson in a sa panyésén menutuk	ant sharar ay a siad ad tan 3.1					Total	per head	Total	per head
	Number	Number	Thousand	Thousand	Thousand	£ million	£	£ million	£
1—10	58	57	0.3)						
11–19	19	18) 0.3)						
20—49	29	29) 0.8)	1.2	0.6	5.9	4,843	4.2	6,856
50—99	7	7) 0.5)						
100–199	11	10	1.6	1.1	0.5	5.1	4,655	3.4	6,241
200—299	3	3	0.8	0.6	0.2	2.8	5,031	1.7	6,756
300 and over	5	4	3.6	2.2	1.4	11.3	5,201	9.6	6,928

Total 132 116 7.9 5.0 2.8 25.1 4.977 18.8 6,763

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

Average number employed during the year, including full and part-time employees and working proprietors. (b)

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 (c) should be regarded merely as the best estimates available and used with caution.

The count of enterprises shown in each row represents the number of enterprises, irrespective of size, owning the establishments shown (d) 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.

6

(e) Including working proprietors.

Total sales and work done (h)	Gross output	Net output		Gross value added at factor cost
		Total	per head	Total
£million	£ million	£ million	£	£ million
41.2	41.1	18.6	10,042	(k)
34.6	34.5	16.1	9,817	29.5(k)
19.9	19.9	7.9	9,863	6.4
75.9	75.6	39.4	11,086	34.9

171.6 171.1 82.1 10,450 70.8

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 £8.8 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 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.

P		

	Net capital expenditure (j)	Total stocks and work in progress at end of year
per head		
£	£ million	£ million
(k)	1.9	9.6
8,444(k)	0.9	9.9
7,910	0.6	4.5
9,814	3.0	17.9

9,010	6.5		42.0
	and the second	CONTRACTORS -	succession.

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

Accounting year ended		ended Percentage of total returns received		Percentage of tot	Percentage of total number employed			
1980 April (a)	ulibeiaans (i)	per cent	sddeg ar factor cost		per cent	a construction of the second	not solve in which some (in)	
May		-			Operature			
June		Dest			Totor Josef			
July August		3			Constituent a			
September		16.7	•		8.1			
October		4.2			5.2			
November		-			-			
December		58.3			78.4			
1981 January		4.2			2.5			
February		47.8.6 <u>–</u>			10366 -			
, March (b)		16.7			5.9			

From 6th April. (a)

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)

•	Unit		1979	1980	
					· · · · · · · · · · · · · · · · · · ·
Gross output per head	£			21,096	21,787
Net output per head	£			10,902	10,450
Gross value added per head	£			9,551	9,010
Gross value added as a percentage of gross output	%			45	41
Ratio of gross output to stocks				4.7	4.1
Vages and salaries as a percentage of ross value added	%				62
atio of operatives to administrative, achnical and clerical employees				1.6	1.8
ages and salaries per administrative, echnical and clerical employee	E one edorio				6,763
ages and salaries per operative	£			4,403	4,977
et capital expenditure per head	£			581	826
et capital expenditure as a percentage gross value added	%			6	9

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

hese notes give the main information needed for interpreting the ures in the industry Business Monitors: more detailed information figures in the industry been in a separate Business Monitor – PA1001 about the census is given in a separate Business Monitor – PA1001 Introductory Notes) of the Report on the Census of Production,

FNERAL INFORMATION

HANGES MADE FOR 1980

1980 census differed from the 1979 in three main respects. uestions relating to standard cost stocks and road transport costs are removed from the questionnaire. Motor cars have been separrely identified in the capital expenditure questions in order to sist in the 1980 rebasing of national accounts. Sampling arrange nts 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 proional results has been discontinued, and industry reports are being solution is a series of the size of the si adings is published in the Summary Volume (PA1002). Regional sults are restricted to 2 digit class level, and appear only in the ummary Volume.

DUSTRIAL CLASSIFICATION

e 1980 census is the first being conducted on the SIC (Revised The United Kingdom SIC was first issued in 1948 and 980). vised in 1958, 1968 and 1980. It exists to promote uniformity nd comparability in the official statistics of the United Kingdom. or to the 1980 revision the general principles followed were those the International Standard Industrial Classification of all mic Activities of the United Nations Statistical Office but for 1980 revision an attempt was made to align the United Kingdom assification 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-

STATISTICAL 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 wide the information normally required for an economic census example, employment, expenses, turnover, and capital form-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 activies carried on at a single address e.g. a mine or factory, including ose which are ancillary to the principal activities. Frequently istinct 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. however, the required range of data can be provided for each tivity, each is taken to constitute a separate establishment. Some mes activities which are conducted as a single business are carried on at a number of addresses. Where this is so, businesses are asked provide the full range of information in respect of each address. ether or not the activities are different. Their activities may, owever, be intergrated to such an extent that they constitute a ingle 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 are obtained for each local unit in order to compile regional tables forts are made by the BSO to ensure, by negotiating with responnts, that the return from an establishment does not cover local nits in more than one of the countries of the United Kingdom.

stablishments are asked to exclude from their returns particulars lating to any department not engaged in production e.g. mer-nanting, 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 ssible as if sold to an independent purchaser. Where separate accounts are not kept, responders are asked to include details of all lese activities in their return. Particulars relating to head offices ainly engaged in the administration of the production units within scope of the census are included. Where more than one return is made the information in respect of the head office is apportioned nong 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 bout relationships between establishments, the changing structure groups of companies and about common ownership links is tained from many sources, including the Stock Exchange Year ^{ook}, company reports, press reports, and information supplied by individual establishments.

THE REGISTER register proving forms.

COVERAGE excluded

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 -

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
- R revised

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

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

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

nil or less than half the final digit shown figures cannot be shown owing to the risk of disclosing information about individual enterprises.

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 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 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 Averages could be calculated from the figures routing 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 speaking, all manual wage earners. They include operatives 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 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

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 amount paid for professional services, post office services, transport (withi the United Kingdom) and advertising, rates (excluding water rates) and the cost of licensing motor v hicles. 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,

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 parttime) on all activities covered by the returns, including operatives, administrative, technical and clerical employees and working proprietors, but excluding outworkers.

IN INDUSTRIAL SERVICES RENDERED

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

FRATING RATIOS

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

URCHASES

urchases include the cost of raw materials, components, semiufactured goods and workshop materials; of replacement parts consumable tools not charged to capital account; of packaging erials of all types; of stationery and printed matter; of fuel, erricity 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 nolied by customers; and of food, etc. for any canteen covered the establishment's return. Transfers of goods to the estab-ment from another department of the same firm not covered by e establishment's return are included at a cost corresponding to estimated selling value recorded by the other department. ints payable to transport firms or credited to the firm's own insport department for delivery of materials are excluded, as are purchases of machinery and plant charged to capital account. urchases of goods for merchanting or factoring have been collected enarately since 1973. The values shown exclude VAT. They include, in addition to the actual purchase price, the value of packging material charged to the establishment. The value of returned goods or packaging material returned to the suppliers and any trade incounts are excluded. Materials purchased duty-paid are included their duty-paid value, less any drawback, rebate, etc. The cost of sport is included only if it is included with the purchase price the firm's accounts. Imported goods are included at their full ivered cost. If in the firm's accounts the transport from docks or irport 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 ENDERED

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 tivities, for example, within the food sector - butter packed on mission; 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 eering industries, covering erection, installation and repair and bing work. Other activities within this heading include loration work, research and development, glass-cutting and sing and planing of timber.

ndustrial services rendered include repairs and maintenance, installtion 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 ⁿ a piece-work basis. Only amounts paid to outworkers whose les 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 of goods made by establishments in the United Kingdom ared by the inquiry. Sales of goods made for these establishnts by outworkers or by other establishments from materials en out to them and sales of waste products are included. ward sales and canteen takings are excluded. All sales in the riod of the inquiry are included irrespective of when the goods manufactured.

valued on the same basis.

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 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

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



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