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# **Business Monitor**

Report on the Census of Production

Glass and glassware



### 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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# PA247

# **Business Monitor**

A publication of the Government Statistical Service

Report on the Census of Production 1980

Glass and glassware

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

PA247

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	1 Introductory notes	PA352	Motor vehicle bodies, trailers and caravans
PA111		PA353	Motor vehicle parts
PA120		PA361	Shipbuilding and repairing
PA130		PA362	Railway and tramway vehicles
PA140		PA363	Cycles and motor cycles
PA161	Production and distribution of electricity	PA364	Aerospace equipment manufacturing and repairing
PA162 PA170	에 MAT (1985) (1985) 1985 (1986) (1985) 1985 (1985) 1985 (1986) 1986 (1986) 1986 (1986) 1986 (1986) 1986 (1986)	PA365	Miscellaneous vehicles
PA210	Extraction and preparation of metalliferous ores	PA371	Measuring, checking and precision instruments and
PA221	Iron and steel industry	PA372	apparatus  Medical and surgical equipment and orthopaedic
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 PA251	Refractory and ceramic goods	PA421	Ice-cream, cocoa, chocolate and sugar confectionery
PA255	Basic industrial chemicals	PA422	Animal feeding stuffs
PA256	Paints, varnishes and printing ink Specialised chemical products mainly for industrial	PA423	Starch and miscellaneous foods
A250	and agricultural purposes	PA424	Spirit distilling and compounding
PA257	Pharmaceutical products	PA426	Wines, cider and perry
A258	Soap and toilet preparations	PA427 PA428	Brewing and malting
A259	Specialised chemical products mainly for household	PA429	Soft drinks
	and office use	PA431	Tobacco industry Woollen and worsted industry
A260	Production of man-made fibres	PA432	Cotton and silk industries
PA311	Foundries	PA433	Throwing, texturing, etc. of continuous filament yar
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 A324	Textile machinery	PA451	Footwear
A324	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 handling equipment	PA456	Fur goods
A326	Mechanical power transmission equipment	PA461	Sawmilling, planing, etc. of wood
A327	Machinery for printing, paper, wood, leather, rubber,	PA462	Manufacture of semi-finished wood products and
	glass and related industries: laundry and dry cleaning	DA 400	further processing and treatment of wood
	machinery	PA463	Builders' carpentry and joinery
A328	Miscellaneous machinery and mechanical equipment	PA464	Wooden containers
A329	Ordnance, small arms and ammunition	PA465	Miscellaneous wooden articles
A330	Manufacture of office machinery and data processing	PA466	Articles of cork and plaiting materials, brushes and
	equipment	PA467	Wooden and uph eletered formit was and above and
4341	Insulated wire and cables	1 7407	Wooden and upholstered furniture and shop and office fittings
A342	Basic electrical equipment	PA471	Pulp, paper and board
A343	Electrical equipment for industrial use, and batteries	PA472	Conversion of paper and board
	and accumulators	PA475	Printing and publishing
A344	Telecommunication equipment, electrical measuring	PA481	Rubber products
	equipment, electronic capital goods and passive	PA483	Processing of plastics
	electronic components	PA491	Jewellery and coins
345	Miscellaneous electronic equipment	PA492	Musical instruments
346	Domestic-type electric appliances	PA494	Toys and sports goods
347	Electric lamps and other electric lighting equipment	PA495	Miscellaneous manufacturing industries
351	Motor vehicles and their engines	PA500	Construction

PA247 GLASS AND GLASSWARE

The information in this report relates to establishments classified to the Glass and glassware industry, Group 247 in the Standard Industrial classification Revised 1980. The industry Group covers the following Activity Headings:—

## 2471 Flat glass

1. Flat glass - not further worked

Manufacture of flat glass not further worked other than by surface grinding or polishing.

2. Flat glass - further worked

Manufacture of flat glass cut to shape and otherwise worked, including the manufacture of glass mirrors and multiple insulating glass.

The cutting of glass to size in the course of distribution is classified to Group 613.

## 2478 Glass containers

Manufacture of glass bottles and jars for all purposes, including tubular glass containers and also glass stoppers.

## 2479 Other glass products

1. Domestic and ornamental glassware

Manufacture of glassware for ornamental, table and culinary purposes.

2. Glass envelopes and illuminating glassware

Manufacture of glass envelopes, including bulbs and tubes and their parts, for electric lamps, tubes and valves. Manufacture of lighting, illuminating and signalling glassware. The manufacture of complete electric lamps and valves is classified to Groups 347 and 345 respectively.

3. Glass tubing and scientific glassware

Manufacture of glass in bars, tubes and rods for further processing and laboratory, hygienic and pharmaceutical glassware. Glass thermometers and similar measuring instruments are classified to Group 371.

4. Glass fibre and glass fibre products

Manufacture of glass fibre, including roving, wool and filament, and articles made therefrom. Woven glass fibre fabrics are classified to Group 432, complete glass fibre boats to Group 361, glass fibre reinforced plastics products to Group 483 and glass fibre reinforced cement, plaster, etc. to Group 243.

5. Other glass products

Manufacture of optical glass, vacuum flasks (complete and inners), glass insulators and insulating fittings, glass bricks and tiles, glass beads, mosaic cubes and fancy articles of glass and all other glass products. Glass cutting, decorating, engraving, polishing, staining, etc. of customers' material. The grinding of optical glass and lenses is excluded and classified to Group 373.

or 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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TABLE 2

PA247

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

	Unit		1979	1980
Enterprises	Number		609	567
Establishments	" Switcheduc Sc	terther was ed other than probes stared variati	685	643
Sales of goods produced	£ million		974.4	1,034.7
Receipts for work done and industrial				
services rendered	"		6.8	2.8
Capital goods produced for establish-	g van one expressees on		a sampon sasgra	
nents' own use			9.7	8.7
Non-industrial services rendered	"		2.3	2.3
Goods merchanted or factored			72.8	63.5
Total sales and work done	to at the asyland as a sense of		1,066.0	1,111.9
ncrease during the year, work in				
progress and goods on hand for sale	coracery, hygienic You of		22.0	12.6
Gross output	"		1,088.0	1,124.4
Purchases of materials for use in pro-	Content of the conten		r gress mare, m inotete glass fit	o majuarom aja, SDA ajip
duction, and packaging and fuel			396.2	444.3
Purchases of goods for merchanting or actoring	contained has extended		48.6	48.2
1985 a			pol leiseann	216500000
ncrease during the year, stocks of materials, stores and fuel	•		12.1	3.3
Cost of industrial services received	isroo OSET besiveFi nous		25.5	17.5
Net output	n. The Samuel Control		629.8	617.8
	weed or televisings at \$1		59.7	
otal employment (b)	Thousand			54.5
Net output per head	£		10,546	11,342
ayments for non-industrial services				
Hire of vehicles, plant and				
machinery	£ million		4.2	5.5
Rents of industrial and commercial buildings	,,		4.9	6.0
Commercial insurance premiums	,,		4.4	5.0
	,,			
Bank charges			0.5	0.5
Other non-industrial services	<b>"</b>		57.2	58.7
icensing of motor vehicles	· Salahan kacama		0.6	0.6
ates, excluding water rates	,,		9.4	11.3
Gross value added at factor cost	"		548.6	530.2
Gross value added at factor cost				
per head	£		9,186	9,733

<sup>(</sup>a) Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census. Satisfactory returns accounted for 87 per cent of employment within the industry.

Lavoenditure.	1979-1980	
Capital experior Capital experior	1979–1980 establishments classified to the industry (a	a) (t
ullnited Nillguoin	Cottabilities	

2	m	:	ī	ī	e	į
L	111	ı		1	1	L

To the same of the same	output.	(g) askedes (g)	e loogaVV		egnyafama"	1979	1980	1000
Land and buildings				* following				
New building work	10					10.9	17.7	
Land and existing bu  Acquisitions	ildings					3.9	1.7	
Disposals						0.4	1.0	
Plant and machinery  Acquisitions						69.6	105.5	
Disposals						0.8	6.1	
Vehicles (c)						15	32	
Acquisitions						4.5 1.1	3.6	
Disposals  Total net capital	expenditi	0888.0 ure				86.6	120.5	
Total Het Capital		00000						096-305

<sup>(</sup>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)

£	m	н	li	on
_	ш	ш	ш	UII

	1979	1980	Value at end of 1980	
40,8,00 13.3 garge 233.8 (8,723 6 to 8,050 p.m.)	Increase during year		23000	
Materials, stores and fuel	12.1	3.3	69.5	
Work in progress	3.6	4.6	20.9	
Goods on hand for sale	18.3	8.0	127.8	
Total	34.1	15.9	218.2	

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

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

<sup>(</sup>b) Capital expenditure in respect of manufacturing establishments where production had not commenced before the end of the year, is included

<sup>(</sup>c) For 1980 the values of acquisitions and disposals of motor cars were collected separately. These were £1,658 thousand and £674 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)	Estab- lish- ments	Enter- prises (d)	Employme	ent		Wages and	salaries (g)		
	(c)								
			Total (e)	Opera- tives	Others (f)	Operatives		Others (f)	QUALITY NO
						Total	per head	Total	per head
	Number	Number	Thousand	Thousand	Thousand	£ million	£	£ million	el £ mest
1-10	376	365	1.7)						
11–19	98	89	1.4)						
20–49	60	58	1.7)	5.2	1.6	23.5	4,520	9.6	6,121
50-99	32	31	2.2)						
100-199	29	27	.3.9	3.0	0.9	13.5	4,540	5.5	5,922
200–299	10	10	2.5	2.0	0.5	9.8	4,930	3.1	5,755
300–399	5	5	1.8	1.4	0.4	7.6	5,552	2.2	5,675
400-499	7 100 100	7 7 12 14 6 6 6	3.2	2.5	0.6	13.2	5,270	3.9	5,995
500-749	7	6	4.2	3.2	1.1	17.9	5,647	7.1	6,595
750—999	5	3	4.3	3.4	1.0	18.1	5,380	5.9	6,257
000-1,499	8	6	9.5	7.3	2.2	43.1	5,936	15.0	6,734
500 and over	6	4	18.0	13.0	5.0	87.1	6,688	39.6	7,889

Total	643	567	54.5	40.8	13.3	233.8	5 723	01.9	6 900
							0,120	31.0	0,030

<sup>(</sup>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		Net capital expenditure (j)	Total stocks and work in progress at end of year
		Total	per head	Total	per head		
f million	£ million	£ million	£	£ million	£	£ million	£ million
			A 1922 Persons				
125.2	126.1	62.0	8,814	(k)	(k)	8.9	19.8
					12,55		
67.9	68.3	34.3	8,766	82.5(k)	7,538(k)	2.5	10.9
44.6	45.1	19.0	7,504	15.8	6,235	3.2	6.5
35.3	35.1	18.0	10,287	15.2	8,648	1.6	6.6
66.5	66.9	42.7	13,531	38.0	12,058	3.8	10.7
75.0	77.2	47.3	11,163	39.1	9,235	4.9	23.8
95.8	96.6	56.5	13,079	51.6	11,945	9.0	17.4
180.3	183.0	99.1	10,445	79.4	8,368	10.0	45.5
421.2	426.1	239.0	13,241	208.6	11,560	76.6	77.1

1,111.9	1,124.4	617.8	11,342	530.2	9,733	120.5	218.2

(f) Administrative, technical and clerical employees.

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

<sup>(</sup>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.

<sup>(</sup>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 counts may exceed the total for the industry.

<sup>(</sup>e) Including working proprietors.

The cost of employers' contributions to national insurance, pensions and welfare schemes and the running costs of canteens, is estimated for the industry at £63.2 million. The remuneration of outworkers on returns received was £10 thousand.

<sup>(</sup>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.

<sup>(</sup>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

Accounting year ended	Percentag	Percentage of total returns received			Percentage of total number employed			
di xioworis and work in	per cent	re belibs /		per cent	TORRESS OF THE PARTY OF THE PAR	Wrow ho		
1980 April (a)	4.2			0.6				
May	-			Openion-				
June	1.0			0.4				
				Tisself teach				
July				Collomoillia 3				
August	1.0			0.1				
September	3.1			6.0				
October	4.2			2.9				
November	12.5			18.3				
December	36.5			28.4				
	CASASS A.							
1981 January	8.3			8.0				
February	4.2			2.0				
March (b)	25.0			33.2				

<sup>(</sup>a) 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	£		18,217	20,644	
Net output per head	£		10,546	11,342	
Gross value added per head	£		9,186	9,733	
Gross value added as a percentage of gross output	%	C063.	50	47	
Ratio of gross output to stocks			5.7	5.2	
Wages and salaries as a percentage of gross value added	<b>%</b>		56	stantone surreuninino	
Ratio of operatives to administrative, technical and clerical employees			3.1	submit and soft females.	
Wages and salaries per administrative, technical and clerical employee	h <b>£</b> man samuel and		5,897	6,890	
Wages and salaries per operative	£		4,978	5,723	
Net capital expenditure per head	£		1,450	2,212	
Net capital expenditure as a percentage					

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

#### NOTE

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These notes give the main information needed for interpreting the figures in the industry Business Monitors: more detailed information about the census is given in a separate Business Monitor — PA1001 (Introductory Notes) of the Report on the Census of Production, 1980.

## GENERAL INFORMATION

# CHANGES MADE FOR 1980

CHANGES MADE 1 1800 Changes in the 1979 in three main respects. Questions relating to standard cost stocks and road transport costs were removed from the questionnaire. Motor cars have been separately identified in the capital expenditure questions in order to assist in the 1980 rebasing of national accounts. Sampling arrangements were extended as detailed in the para headed Coverage. There are also two major changes in the presentation of census results. Publication of the Business Monitor PA1000 showing provisional results has been discontinued, and industry reports are being issued, whenever possible, for each 3 digit Group of the SIC Revised 1980. A limited range of information for most 4 digit Activity Headings is published in the Summary Volume (PA1002). Regional results are restricted to 2 digit class level, and appear only in the Summary Volume.

### INDUSTRIAL CLASSIFICATION

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

#### STATISTICAL UNIT

The statistical unit for the purpose of the census is the establishment, which is defined in the SIC as the smallest unit which can provide the information normally required for an economic census, for example, employment, expenses, turnover, and capital formation. Usually the principal activities carried on in an establishment fall within a single heading of the classification (e.g. steel making or sugar refining). Typically the establishment embraces all the activities carried on at a single address e.g. a mine or factory, including those which are ancillary to the principal activities. Frequently distinct activities characteristic of different industries are carried on at one address, but normally these are not classified separately and the whole establishment is classified according to the main activity. however, the required range of data can be provided for each activity each is taken to constitute a separate establishment. Sometimes activities which are conducted as a single business are carried on at a number of addresses. Where this is so, businesses are asked to provide the full range of information in respect of each address, whether or not the activities are different. Their activities may nowever, 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 units). Separate figures of employment and net capital expenditure are obtained for each local unit in order to compile regional tables. Efforts are made by the BSO to ensure, by negotiating with respondents, that the return from an establishment does not cover local units in more than one of the countries of the United Kingdom.

Establishments are asked to exclude from their returns particulars relating to any department not engaged in production e.g. merchanting, transport or warehousing, for which they keep a separate set of accounts. Transfers of goods produced to such departments are treated as sales and respondents are asked to value them as far as Possible as if sold to an independent purchaser. Where separate accounts are not kept, responders are asked to include details of all these activities in their return. Particulars relating to head offices mainly engaged in the administration of the production units within the scope of the census are included. Where more than one return is made the information in respect of the head office is apportioned among them. For certain purposes in the censuses of production e.g. for disclosure testing and the preparation of the enterprise analyses shown in Business Monitor PA1002) related establishments are combined to enterprise level. An enterprise group is defined as a business consisting of either a single establishment or two or more establishments under common ownership or control. Information about relationships between establishments, the changing structure groups of companies and about common ownership links is obtained from many sources, including the Stock Exchange Yea Book, company reports, press reports, and information supplied by ndividual establishments.

#### THE REGISTER

A computerised register of about 120,000 production units throughout the United Kingdom is held in the BSO. This register provides the basis for a wide range of BSO inquiries mailed to the production sector. For each production unit the register contains identification particulars and information about a 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 availab
- nil or less than half the final digit shown
- figures cannot be shown owing to the risk of disclosing information about individual enterprises.
- R revised

<sup>(</sup>b) Including returns made for twelve-month period ended 1st to 5th April 1981.

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.

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 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

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 lightes relating to the last week of each calendar month. Establishments were also required to state the number of working proprietors where appropriate and these are included in total employment figures. Full-time and part. time employees are included but outworkers (i.e. persons employed by establishments who worked in their own homes, etc. on materials by establishments who worked in the excluded. The figures include 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, travelle 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 be included only where separate accounts are not kept. Operative 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 insuranunder 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 (with 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 account

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.

NON-INDUSTRIAL SERVICES RENDERED

NUISTICLUDES rents received for commercial and industrial buildings, silling charged for hiring out plant, machinery and vehicles and ther goods and amounts charged to other organisations for the ion of transport. It also includes amounts received for the right to use patents, trademarks, copyrights etc., manufacturing quarrying rights and technical "know-how" and revenue from sich staff facilities as canteens.

OPERATING RATIOS

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

Purchases include the cost of raw materials, components, seminanufactured goods and workshop materials; of replacement parts and consumable tools not charged to capital account; of packaging naterials of all types; of stationery and printed matter; of fuel, electricity and water; of materials to be used by the establishment or given out to other establishments for the production of machinery or other capital items for the establishment's own use; of materials for use by the establishment when working on goods supplied by customers; and of food, etc. for any canteen covered by the establishment's return. Transfers of goods to the estab-lishment from another department of the same firm not covered by the establishment's return are included at a cost corresponding to the estimated selling value recorded by the other department. Amounts payable to transport firms or credited to the firm's own transport department for delivery of materials are excluded, as are all purchases of machinery and plant charged to capital account. Purchases of goods for merchanting or factoring have been collected separately since 1973. The values shown exclude VAT. They include, in addition to the actual purchase price, the value of pack aging material charged to the establishment. The value of returned goods or packaging material returned to the suppliers and any trade discounts are excluded. Materials purchased duty-paid are included at their duty-paid value, less any drawback, rebate, etc. The cost of transport is included only if it is included with the purchase price in the firm's accounts. Imported goods are included at their full delivered cost. If in the firm's accounts the transport from docks or airport is not included in the cost of goods purchased, the cost is entered at cif plus duty (if applicable)

RECEIPTS FOR WORK DONE AND INDUSTRIAL SERVICES RENDERED

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

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

REMUNERATION PAID TO OUTWORKERS

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

SALES OF GOODS PRODUCED

Sales for the purposes of the annual censuses means deliveries on sale of goods made by establishments in the United Kingdom covered by the inquiry. Sales of goods made for these establishments by outworkers or by other establishments from materials given out to them and sales of waste products are included. Forward sales and canteen takings are excluded. All sales in the period of the inquiry are included irrespective of when the goods

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.

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