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Business Statistics Office

Business Monitor

Report on the Census of Production

Plastics products





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PA496

Business Monitor

A publication of the Government Statistical Service

Report on the Census of Production 1976

Plastics 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)

Department of Industry
Business Statistics Office

London: Her Majesty's Stationery Office

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PA213 PA214	Biscuits Bacon curing, meat and fish products	PA382	Motor cycle, tricycle and pedal cycle manufacturing
PA215	Milk and milk products	PA383	Aerospace equipment manufacturing and repairing
PA216	Sugar	PA384	Locomotives, railway track equipment, railway carriage, wagons and trams
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PA231	Brewing and malting	PA395	Cans and metal boxes
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PA239.2	British wines, cider and perry Tobacco	PA399.6	Metal hollow-ware
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PA277	Dyestuffs and pigments	PA422.1	Household textiles and handkerchiefs
PA278	Fertilizers		Canvas goods and sacks and other made-up textiles
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PA311	Iron and steel (general)	PA442	Men's and boys' tailored outerwear
PA312	Steel tubes	PA443	Women's and girls' tailored outerwear
PA313 PA321	Iron castings, etc. Aluminium and aluminium alloys	PA444 PA445	Overalls and men's shirts, underwear, etc. Dresses, lingerie, infants' wear, etc.
PA322	Copper, brass and other copper alloys	PA446	Hats, caps and millinery
PA323	Miscellaneous base metals		Corsets and miscellaneous dress industries
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PA341 PA342	Industrial (including process) plant and steelwork Ordnance and small arms	PA484.2	Miscellaneous manufactures of paper and board
PA349.1	Ball, roller, plain and other bearings	PA485	Printing, publishing of newspapers and periodicals
	Precision chains and other mechanical engineering	PA489	General printing and publishing Rubber
PA351 PA352	Photographic and document copying equipment Watches and clocks	PA491 PA492	Linoleum, plastics floor-covering, leathercloth, etc.
PA353	Surgical instruments and appliances	PA493	Brushes and brooms
PA354	Scientific and industrial instruments and systems		Toys, games and children's carriages
PA361 PA362	Electrical machinery	PA494.3 PA495	Sports equipment Miscellaneous stationers' goods
PA362 PA363	Insulated wires and cables Telegraph and telephone apparatus and	PA495 PA496	Plastics products
	equipment	PA499.1	Musical instruments
PA364	Radio and electronic components		Miscellaneous manufacturing industries
	Gramophone records and tape recordings Broadcast receiving and sound reproducing	PA500 PA601	Construction Gas
1 4303.2	equipment	PA602	Electricity

PA496 PLASTICS PRODUCTS

The information in this report relates to establishments classified to the Plastics products industry, minimum list heading 496 in the Standard Industrial Classification (revised 1968). The activities of the industry include:—

Manufacturing plastics goods and components, including resin bonded fibreglass goods not reported elsewhere, plastics building materials, rain water goods, etc. and plastics packaging (other than bags of transparent regenerated cellulose film). Covered mattresses of plastics foam, plastics belting and hose, plastics floor coverings, plastics brushes, plastics toys, games and sports requisites, plastics buttons, plastics products used as leather substitutes and fibreglass boats are all excluded. The coating of metal with plastics (including dip coating of pipes, wires, etc.) is also excluded.

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

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PA367 Radio, radar and electronic capital goods
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Electronic computers

PA366

Output and costs, 1973 - 1976
All United Kingdom establishments classified to the industry (a)

	Unit	1973	1974	1975	1976
Enterprises	Number	2,246	2,427	2,511	2,576
Establishments	ent regenerated of stocks and	2,461	2,655	2,735	2,817
Sales of goods produced	£ thousand	703,967	950,633	984,925	1,314,038
Receipts for work done and industrial services rendered	"	(b)	(b)	(b)	3,003
Capital goods produced for establishments' own use	va essimilation de des	1,825	1,877	2,672	2,37
Non-industrial services rendered	"	2,200	5,847	3,993	4,71
Goods merchanted or factored	"	42,999	69,137	60,697	85,24
Total sales and work done (c)		750,991	1,027,493	1,052,287	1,409,37
Increase during the year, work in progress and goods on hand for sale	,,	5,429	21,520	1,774	24,923
Gross output	"	756,420	1,049,013	1,054,061	1,434,294
Purchases of materials for use in production, and packaging and fuel		345,000	497,106	487,009	677,694
Purchases of goods for merchanting or factoring	,,	36,109	55,145	48,352	71,55
ncrease during the year, stocks of materials, stores and fuel		19,186	21,210	-8,240	29,89
Cost of industrial services received	"	15,198	25,011	24,273	33,74
Net output	"	379,300	492,962	486,187	681,19
Total employment (d)	Thousands	116.3	124.8	113.1	121.
Net output per head	£	3,261	3,951	4,297	5,61
Payments for non-industrial services					
Rents, hire of plant and machinery (e)(f)	£ thousand	6,527	9,231	9,167	10,81
Commercial insurance premiums	"	4,513	5,699	6,333	7,590
Bank charges	"	470	565	605	85
Other non-industrial services (9)	"	26,532	36,253	41,666	64,120
icensing of motor vehicles	"	360	395	513 _{TM}	72
ates, excluding water rates	"	4,793	8,095	10,168	11,51
Gross value added at factor cost	"	336,105	432,723	417,735	585,578
Gross value added at factor cost per head	£	2,889	3,468	3,692	4,827

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments exempt because of size. Satisfactory returns accounted for 68 per cent of employment within the industry.

(b) Included with Sales of goods produced.

(c) Details of manufacturers' sales of principal products are published regularly in Business Monitor PQ496.

(d) Average number employed, including full and part-time employees (see table 7) and working proprietors.

(e) 1973 figures include hire of vehicles.

(f) For 1973-1975 rents of industrial and commercial buildings were not recorded separately. For 1976 the amount payable was £7,446 thousand.

(g) 1974-1976 figures include the cost of hiring goods vehicles.

TABLE 2

Capital expenditure, 1973 - 1976 All United Kingdom establishments classified to the industry (a)(b)

	-			£ thousand
Taraction (1) selveted parameters.	1973	1974	1975	1976
Land and buildings		textor rose	tol (b) sinem	2012-036 a(d)
New building work	6,547	9,267	6,955	7,779
Land and existing buildings				
Acquisitions	2,008	1,479	4,261	3,807
Disposals	496	739	971	1,980
Vehicles				
Acquisitions				
Motor cars	3,222	4,010)	6,001	8,403
Other vehicles	1,123	1,171)		
Disposals Motor cars	1,334	1,582)		
Other vehicles	157	108)	1,979	2,646
Plant and machinery				
Acquisitions	41,108	48,518	40,190	58,227
Disposals	1,808	2,058	2,590	3,733
Total net capital expenditure	50,213	59,957	51,867	69,857

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments exempt because of size. Satisfactory returns accounted for 68 per cent of employment within the industry.

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

TABLE 3

Stocks and work in progress, 1973 - 1976 All United Kingdom establishments classified to the industry (a)

					£ thousand
00 2,377 Feet 198,378 FEET 408	1973	1974	1975	2877 2.676	1976
	and become		Increase	down duit (inter ant editor	Value at end of year
Materials, stores and fuel	19,186	21,210	-8,240	29,891	106,087
Work in progress	3,074	5,489	1,649	7,467	31,011
Goods on hand for sale	2,355	16,031	126	17,456	70,660
Total	24,615	42,730	-6,466	54,814	207,758

⁽a) Including estimates for establishments not making satisfactory returns, non-response and establishments exempt because of size. Satisfactory returns accounted for 68 per cent of employment within the industry.

Analysis of establishments by size, 1976
All United Kingdom establishments classified to the industry (a)

Size group (b)	Estab- lish- ments	Enter- prises (c)	Employmen	ıt:		Wages and sa	alaries (f)	Ponibliad	tins box
				Opera- tives	Others (e)	Operatives		Others (e)	
Receipts for worl	Gora ked	ingggrad bende				Total	per head	Total	per head
	Number	Number	Number	Number	Number	£ thousand	£	£ thousand	£
1 - 10	1,402	1,361	6,720)						
11 - 19	429	427	6,138)						
20 - 49	445	432	13,779)	33,895	9,204	74,493	2,198	31,215	3,391
50 - 99	263	257	18,655)		1,125				
100 - 199	132	124	18,163	14,217	3,908	31,770	2,235	13,428	3,436
200 - 299	72	61	17,996	13,917	4,073	32,533	2,338	14,271	3,504
300 - 399	28	28	9,460	6,929	2,527	18,040	2,604	8,271	3,273
400 - 499	16	08 0.15	7,401	5,174	2,227	14,523	2,807	7,494	3,365
500 - 749	20	17	12,742	9,547	3,195	26,205	2,745	11,130	3,484
750 - 999	6	*08.19 6	5,111	3,654	1,457	9,490	2,597	4,871	3,343
,000 and over	4	4	5,146	3,752	1,394	9,452	2,519	4,698	3,370

Total	2,817	2,576	121,311	91,085	27,985	216,506	2,377	95,378	3,408

⁽a) Including estimates for establishments not making satisfactory returns, non-response and establishments with fewer than 20 employees.

Total sales and work done (g)	Gross output	Net output		Gross value added at factor cost	100 to 10	Net capital expenditure (h)	Total stocks and work in progress at end of year
ment as a see of rotal remolepassor		Total Total	per head	Total	per head		
£ thousand	£ thousand	£ thousand	for cant of barntly	£ thousand	to the cred rothed and	£ thousand	£ thousand
509,222	515,492	238,133	5,258	(j)) (j)	27,674	67,993
					0.6	4.5	ethole.
203,050	206,478	98,375	5,416	292,970(j)	4,617(j)	11,556	31,819
209,659	212,648	99,902	5,551	86,521	4,808	9,505	30,635
116,059	118,418	54,840	5,797	44,929	4,749	6,052	18,017
98,396	100,442	46,180	6,240	37,594	5,080	4,734	13,734
149,675	151,783	78,006	6,122	68,446	5,372	5,355	21,810
69,822	73,641	39,536	7,735	33,676	6,589	3,529	14,036
53,488	55,394	26,221	5,095	21,442	4,167	1,452	9,714

1,409,371	1,434,294	681,191	5.615	585,578	4.827	69.857	207,758
1,405,571	1,434,234	001,191	0,010	565,578	4,027	09,807	207,758

⁽f) The cost of employers' contributions to national insurance, graduated pensions, other pensions and welfare schemes and the running costs of canteens, is estimated for the industry at £38,363 thousand. In addition the remuneration of outworkers on returns received was £716 thousand.

⁽b) Average number employed, including full and part-time employees (see table 7) and working proprietors.

⁽c) The sum of the figures for the size groups may exceed the total for the industry because some enterprises control establishments in more than one size group.

⁽d) Including working proprietors.

⁽e) Administrative, technical and clerical employees.

⁽g) Sales of goods produced, capital goods manufactured, buildings constructed by establishments for their own use, work done, industrial and non-industrial services rendered and merchanted goods.

⁽h) New building work plus acquisitions less disposals of land and existing buildings, vehicles and plant and machinery.

⁽j) Gross value added data relate to establishments employing 1-199.

TABLE 6

PAAG

Regional distribution of employment, net capital expenditure, net output and gross value added at factor cost, 1976. All United Kingdom establishments classified to the industry

Area	Total employme	ent (a)	Net capital expenditure	Net capital expenditure (b)(c)		Net output, gross value added and employment in the region from returns received from establish- ments with more than 80 per cent of their employ- ment in the region (d)			
					Net output	Gross value added at factor cost	percen	yment as a tage of total al employment industry	
1.10	Thousands	per cent of United Kingdom	£ thousand	per cent of United Kingdom	£ thousand	£ thousand	122	Married and S	
Standard regions of England	1 4289 448	4 8 8 8							
Liigidiid									
North	4.9	4.0	1,364	2.0	15,501	13,902	57.2		
Yorkshire and Humberside	9.7	8.0	5,572	8.0	*	*	*		
East Midlands	10.2	8.4	7,887	11.3	44,366	39,426	74.0		
East Anglia	780a,e . 4	808,1 17,898	158(62)	4-Waa,a	78,645 0 0,00	2,646 966.5	*		
South East	42.2	34.8	23,573	33.7	144,777	123,543	59.7		
South West	**************************************	080.6 / 404	Mejtä ⁷⁴	7 tils,n	14,52051,84	00,442 108.) 10 *		
West Midlands	15.3	12.6	7,810	11.2	43,356	37,183	58.5		
North West	14.0	11.5	8,620	12.3	55,451	46,480	65.0		
England	111.6	92.0	63,624	91.1	2 468£5,as	2,519 496,8	*	884,08	
Wales	5.3	4.3	2,560	3.7	*	*	*		
Scotland	3.5	2.9	3,053	4.4	13,395	12,055	61.7		
Great Britain	120.3	99.2	69,237	99.1	422,512	363,381	61.8	1,121,1	
Northern Ireland	1.0	0.8	620	0.9	5,984	5,332	87.0		
Unallocated (e)	-	-		_	252,695	216,864	_		
United Kingdom (b)	121.3	100.0	69,857	100.0	681,191	585.578			

(a) Average number employed, including full and part-time employees (see table 7) and working proprietors.

(b) Including estimates for establishments not making satisfactory returns, non-response and establishments with fewer than 20 employees.

(c) New building work plus acquisitions less disposals of land and existing buildings, vehicles and plant and machinery.

(d) Where a census return covered addresses in two or more regions an estimate was made of the net output and gross value added attributable to the region only where more than 80 per cent of the establishment's employees were located in the region. The estimate was made by assuming that net output and gross value added at each address covered by a return was proportional to employment at the address.

(e) Unallocated net output and gross value added covering establishments with addresses in two or more regions, plus estimates for unsatisfactory returns, non-response and establishments exempt because of size. percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments employing 20 or more persons, 1976

Accoun	ting year ended	Percentage of total	I returns received	Percentage of total number employed	
1001110	battachant to sorth	per cent	C C	per cent	ensu.
1976	April (a)	4.0		2.5	
	May	2.4		1.4	
	June	3.4		3.2	
	July saeniaus ni n	3.7		2.4	
	August	1.6		0.7	
	September	5.5		4.5	
	October	5.2		6.2	
	November	3.2		3.9	
	December	43.1		46.9	
977	January	4.9		6.3	
	February	1.3		0.6	
	March (b)	21.7		21.5	

(a) From 6th Apr

(b) Including returns made for twelve-month period ended 1st to 5th April 1977.

TABLE 7

Percentage analysis of employees, by full and part-time employment and sex, 1976(a)

Full-time	Part-time	All employees		
per cent	per cent	per cent		
61	1 bis bearing the til	62		
26	12	38		
	61	61		

Source: Department of Employmen

(a) The percentages relate to the numbers employed (excluding working proprietors) in the United Kingdom at end June, 1976.

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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, 1976.

GENERAL INFORMATION

Changes made for 1976

The Census for 1976 is in line with similar Inquiries being conducted in other member countries of the European Economic Communities. There was a small number of changes in the scope of the industry reports compared with 1975. These include separate headings for:

Sales of goods produced

Receipts for work done and industrial services rendered

Amounts paid for hire of plant and machinery Amounts paid for rent of industrial and commercial buildings

Specific changes are explained in the introductions to the industry reports or by footnotes to the tables.

Suppression of information relating to individual undertakings

Section 9(5)(b) of the Statistics of Trade Act 1947 states - "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."

If a figure involved disclosure the contributor concerned was sometimes asked to give permission for its publication. In the majority of cases permission was given. When it was refused and where contributors were not approached the figure has been suppressed, either by combining it with other figures, or as in the regional tables, by omitting the figure altogether.

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

.. not available

nil or less than half the final digit shown

figures cannot be shown owing to the risk of disclosing information about individual enterprises

R revised

Rounding of figures

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

Industrial classification The United Kingdom Standard Industrial Classification (SIC) was first issued in 1948 and was subsequently revised in 1958 and 1968. It exists to promote uniformity and comparability in the official statistics of the United Kingdom. The general principles followed are those of the International Standard Industrial Classification of all Economic Activities of the United Nations Statistical Office but the United Kingdom SIC reflects the organisation and structure of industry and trade as it exists in the United Kingdom. The SIC is a classification by activity and is not a commodity classification. However, an index of all commodity headings for which sales data are provided in the Quarterly Business Monitors, is published in Business Monitor P01000.

Statistical units 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, 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 farm, a mine or a factory, including those which are ancillary to the principal activities. Frequently distinct activities characteristic of different industries are carried on at one address, but normally these are not classified separately and the whole establishment is classified according to the main activity. If, however, the required range of data can be provided for each activity, each is taken to constitute a separate establishment. Sometimes activities which are conducted as a single business are carried on at a number of addresses. Where this is so, businesses are asked to provide the full range of separate information in respect of each address; whether or not the activities are different. Their activities may, however, be integrated to such an extent that they constitute a single establishment. In the latter case the establishment is defined to cover the combined activities at these addresses (termed local units). Separate figures are obtained of employment and net capital expenditure at each unit in order to compile regional tables.

Efforts are made by the Business Statistics Office to ensure, by negotiating with respondents, that the return from an establishment does not cover local units or addresses in more than one of the

countries of the United Kingdom. Further information about the statistical unit

appeared in an article "The statistical unit in business inquiries" in Statistical News No.13 May

Establishments are asked to exclude from their returns particulars relating to any department not engaged in production e.g. merchanting, transport, 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 they 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 were included. Where more than one return was made the information in respect of the head office was apportioned among them. For certain purposes in the annual censuses of

production (especially the enterprise analyses of Rusiness Monitor PA1002) related establishments are combined. For these purposes an enterprise group may be defined as a business consisting of either a single establishment or two or more establishments under common ownership or control. Bringing together establishments into enterprise groups is also necessary for the purpose of ensuring that there will be no disclosure of the activities of any one enterprise group.

Information about the relationship of Information about establishments, the changing structure of groups of companies and about common ownership links is obtained from many sources, including the Stock Exchange Year Book, company reports, press reports and information supplied by individual establish-

The register permits a questionnaire to be sent direct to the reporting establishment on which the latter can include information relating to all the manufacturing (or local) units which it comprises.

The inquiries provide a major source of information for keeping the register continuously up-to-date and act as a check on its detail and structure. For the establishments on the register making returns to the quarterly inquiries, the industrial classification is derived from an analysis of their sales of commodities and is reviewed annually. Employment data are entered on the register from returns to the annual census of production. In cases where an establishment does not make a return to these inquiries the employment data are based on information provided by the Department of Employment from the annual censuses of employment.

Establishments with 20 or more employees are included in the censuses each year and the information they supply to the census is supplemented by the returns that those with 25 or more employees provide to the quarterly inquiries. Information about establishments with fewer than 20 employees in most industries is less securely based, but increasing use has been made of data on these small establishments supplied by the Department of Employment. One benefit of using this information is an improvement in the estimates of the number of smaller establishments and enterprises, but there is little effect on other aggregates (e.g. employment, output, net capital expenditure).

A return was required in the 1976 Census from each establishment with 20 or more employees. Each establishment is classified to an industry, as defined in the SIC, whose principal products form the major part of the establishment's sales.

The regions defined in Table 5 take account of the boundary changes arising out of the Local Government Act 1972 and the Local Government Act (Scotland) 1973. These changes came into effect in April 1974 in England and Wales and May 1975 in

TERMS USED IN THE CENSUS REPORT

Average number employed

Establishments were required to state the number of persons on the payroll on average during the year of return, whether full-time or part-time employees. Separate figures were required for:

- (a) administrative, technical and clerical employees
- (b) all other employees (operatives)

Averages could be calculated from the figures relating to the last week of each calendar month. Establishments were also required to state the number of working proprietors where appropriate and these are included in total employment figures. 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 "selfemployed" for national insurance purposes and members of their families who worked in the business without receiving a wage or salary; but such persons who worked 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

Administrative, technical and clerical employees include directors in receipt of a definite wage, salary or commission, managers, superintendents 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 earners. They include operatives employed in power stations, transport (including roundsmen), warehouses, stores, shops and inspectors, maintenance workers and canteens. Operatives engaged in outside work of erecting, fitting etc. are also included, but outworkers are excluded.

Capital expenditure

Capital expenditure during the year in respect of manufacturing 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 each calendar year.

(a) New building work

This represents the cost incurred during the year of new building and other constructional work to be used in connection with the business covered by the return. The value is that charged to capital account during the year of return; it includes expenditure on new buildings and on the extension or reconstruction of old buildings, the value of works of a capital nature carried out by the establishment's own staff and the cost of any newly constructed buildings purchased. Figures shown include legal charges, stamp duties, agents' commissions, etc.

- (b) Land and existing buildings The items shown are the capital cost of freeholds purchased and the capital cost or premium payable for leaseholds acquired (excluding the value of assets acquired in taking over an existing business), and the amounts receivable for freeholds or leaseholds disposed of. The value is that charged to capital account during the year of return.
- (c) Plant, machinery and vehicles The items shown are the value of plant and machinery and of vehicles acquired, both new and second-hand, and the amount received for items disposed of during the year. The value of plant and machinery acquired includes plant, etc. which

firms produced for their own use in connection with the business covered by the return. The value of plant, etc. acquired is the expenditure charged to capital account during the year of return less any discounts received, but including the cost of transport and installation. Deductible value added tax is excluded but non-deductible value added tax on motor cars acquired is 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.

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 rent of industrial and commercial buildings, hire of plant and machinery, commercial insurance premiums, bank charges and amounts paid for professional services, post office services, transport, 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.

Gross output

In the calculation of gross output the value of total sales and work done is increased by the rise (or reduced by the fall) during the year in the value of work in progress and goods on hand for sale

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.) and the cost of industrial services received, and where applicable, duties etc.

Net output per head

The figures of net output per head are derived by dividing the net output by the average number of persons employed (full and part-time) on all activities covered by the returns, including operatives, administrative, technical and clerical employees and working proprietors, but excluding outworkers.

Gross value added at factor cost
Gross value added at factor cost is calculated by
deducting from net output the cost of nonindustrial services (e.g. rent of buildings, hire
of plant and machinery, commercial insurance
premiums, bank charges and amounts paid for
professional services, post office services,
transport and advertising), rates (excluding water
rates) and the cost of licensing motor vehicles.
This estimate of gross value added approaches more
closely than census net output to the definition
of net output or value added in national accounts
statistics.

Gross value added at factor cost per head The figures of gross value added at factor cost per head are derived by dividing the gross value added by the average number of persons employed (full and part-time) on all activities covered by the returns, including operatives, administrative, technical and clerical employees and working proprietors, but excluding outworkers.

Purchases

Purchases include the cost of raw materials,

components, semi-manufactured goods and workshop materials; of replacement parts and consumable tools not charged to capital account; of packaging materials of all types; of stationery and printed matter; of fuel, electricity and water; of materials to be used by the establishment or given out to other establishments for the production of machinery or other capital items for the establishment's own use; of materials for use by the establishment when working on goods supplied by customers; and of food, etc. for any canteen covered by the establishment's return. of goods to the establishment from another departof the same firm not covered by the establishment's return are included at a cost corresponding to the estimated selling value recorded by the other department. Amounts payable to transport firms or credited to the firm's own transport department for delivery of materials are excluded, as are all purchases of machinery and plant charged to capital account. Purchases of goods for merchanting or factoring have been collected separately since 1973. The values shown exclude VAT. They include, in addition to the actual purchase price, the value of packaging material charged to the establishment. The value of returned goods or packaging material returned to 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 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 c.i.f. plus duty (if applicable). Leasing, renting and hire purchase charges 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. New building work and machinery or other capital items produced by establishments for hiring out or regarded as sales, the value included in the return being that adopted in the establishments! capital asset accounts. Forward sales and canteen takings are excluded. All sales in the period of the inquiry are included irrespective of when the goods were manufactured. Goods produced in one establishment and transferred either to ancillary departments not engaged in production for which there are separate accounts, or to another establishment of the same firm not covered by the return, are treated as sales by the producing establishment and valued as far as possible as if they had been sold to an independent purchaser. Goods transferred to wholesale or retail selling organisations, for which separate accounts are kept are valued on the same basis.

The value shown for sales is the "net selling

The value shown for sales is the "net selling value" defined as the amount (excluding value added tax) charged to customers whether on an ex-works or delivered basis, after any trade discounts and agents' commissions have been deducted. The cost of packing materials less allowance for returnable cases is included. In industries where products attract Excise Duty the value stated is usually inclusive of duty if sold duty-paid and exclusive of duty if sold in bond or exported.

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

Industrial services rendered include repairs and maintenance, installation work, and technical research and studies for other organisations.

Capital goods produced for establishments' own use This includes all work of a capital nature carried out during the year by the establishments' own staff for their own use.

Non-industrial services rendered
This includes rents received for commercial and
Industrial buildings, amounts charged for hiring
out plant, machinery and other goods and amounts
charged to other organisations for the provision of
transport. It also includes amounts received for
the right to use patents, trademarks, copyrights
etc., manufacturing and quarrying rights and technical "know-how" and revenue from such staff
facilities as canteens.

Goods merchanted or factored
Merchanted goods are those (excluding canteen
sales) sold without having been subjected to any
manufacturing process by the seller.

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 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, together with a margin of overhead costs and profits. Progress payments made to subcontractors 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 value of any payments in kind, travelling expenses etc. is excluded.

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.

Employers' insurance and welfare contributions
This item includes employers' contributions to
national insurance and graduated pensions (and/or
earnings related basic contributions under the

Social Security Act, 1973) 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.

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