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HMSO

Business Statistics Office

Business Monitor

Report on the Census of Production

Inorganic chemicals



publication of the Government Statistical Service

Special Note for Purchasers

Commencing with the 1971 Census, the Census of Production reports are being numbered in a uniform series embracing all industrial inquiries in the Business Monitor series. These Business Monitors have a code P (for production) followed first by A (indicating that it is an annual series) or Q (quarterly) or M (monthly): and then by a number indicating 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 (details on application to Her Majesty's Stationery Office, P.O. Box 569, London SE1 9NH. Telephone 01-928 6977), although they are not included in the global subscription arrangements for the Business Monitor series.

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 Departsments. 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** Newport, Gwent NPT 1XG Newport 56111 (STD code 0633) ext 2455 Telex 497121 Answer Back BSONPT G

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A publication of the Government Statistical Service

Report on the Census of Production 1976

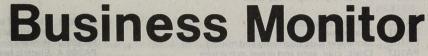
Inorganic chemicals

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

London: Her Majesty's Stationery Office



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PA271.1 INORGANIC CHEMICALS

The information in this report relates to establishments classified to the Inorganic chemicals industry, minimum list heading 271.1 in the Standard Industrial Classification (revised 1968). The activities of the industry include:-

Manufacturing chemical elements (including carbon) and compounds excluding those containing carbon (except for certain simple compounds such as calcium carbide, carbon disulphide and carbon dioxide). The manufacture of prepared inorganic pigments, fertilizers and radio-active inorganic elements, compounds and isotopes, mixtures of chemicals and certain compounds used mainly for specific enduses (such as hydrosulphites and hypochlorites) are excluded.

in mind the notes and definitions which commence on page (iii). LIST OF CONTENTS Table Title No 1 Output and costs, 1973 - 1976 2 Capital expenditure, 1973 - 1976 3 Stocks and work in progress, 1973 - 1976 4 Analysis of establishments by size, 1976 5 Regional distribution of employment, net capital expenditure, net output and gross value added at factor cost, 1976 Percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments employing 20 or more persons, 1976 6 Percentage analysis of employees, by full and part-time employment and sex, 1976 7 7

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(ii)

Electricity PA603 Water supply PA1002 Summary tables

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In interpreting the data in the tables it is essential to bear

TABLE 1

Output and costs, 1973 - 1976

All United Kingdom establishments classified to the industry (a)

	Unit	1973	1974	1975	1976
Enterprises	Number	157	151	144	147
Establishments	bos dissimatio to	205	197	192	197
Sales of goods produced, receipts for work done and industrial services rendered	£ thousand	442,303	605,043	645,687	874,293
Capital goods produced for establishments' own use		7,995	6,817	7,959	7,982
Non-industrial services rendered		2,746	3,423	4,151	5,073
Goods merchanted or factored	· · · · · ·	38,406	56,779	83,843	107,660
Total sales and work done (b)	, "	491,451	672,062	741,640	995,008
ncrease during the year, work in progress and oods on hand for sale	"	3,274	13,968	6,971	13,397
Gross output	"	494,725	686,030	748,611	1,008,404
Purchases of materials for use in production, and backaging and fuel		228,314	354,965	360,609	494,281
urchases of goods for merchanting or factoring	"	31,031	48,456	71,550	91,511
ncrease during the year, stocks of materials, tores and fuel		4,273	19,112	-252	19,270
cost of industrial services received	"	9,117	11,818	17,971	22,320
Excise payments, etc. (net)		(c)	300	58	35
Net output	"	230,535	289,604	298,172	419,527
Total employment (d)	Thou sands	37.2	36.9	35.3	34.5
Net output per head	£	6,198	7,857	8,450	12,146
Payments for non-industrial services					
Rents, hire of plant and machinery (e)(f)	£ thousand	2,812	3,284	3,773	4,291
Commercial insurance premiums	"	2,610	3,097	3,459	4,109
Bank charges	· 11	89	129	113	113
Other non-industrial services (g)	"	27,169	32,871	38,418	46,100
Licensing of motor vehicles	"	517	545	528	MIST MC/0 711
Rates, excluding water rates	an n	4,003	5,068	6,298	6,717
Gross value added at factor cost	"	193,335	244,611	245,583	357,486
Gross value added at factor cost per head	£	5,197	6,636	6,960	10,350

Including estimates for establishments not making satisfactory returns, non-response and establishments exempt because of size. Satisfactory returns accounted for 93 per cent of employment within the industry. (a)

(b) Details of manufacturers' sales of principal products are published regularly in Business Monitor PQ271.

(c) For 1973, the value of excise payments was included with purchases of materials for use in production and packaging and fuel.

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

(e) 1973 figures include hire of vehicles.

For 1973–1975 rents of industrial and commercial buildings were not recorded separately. For 1976 the amount payable was £1,162 thousand. (f)

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

TABLE 2

PA271.1

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

	- (1) animation time scould	1070	1974
		1973	
Land and buildings			
New building work		2,149	2,537
Land and existing building	Total Interest		
Acquisitions		249	1,279
Disposals		853	601
Vehicles			
Acquisitions			
Motor cars		851	906)
Other vehicles		1,255	1,850)
Disposals			080/0
Motor cars		260	255)
Other vehicles		189	428)
Plant and machinery			
Acquisitions		24,127	28,043
Disposals		1,699	781
Total net capital expen	diture	25,629	32,549

Including estimates for establishments not making satisfactory returns, non-response and establishments exempt because of size. (a) Satisfactory returns accounted for 93 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 included.

TABLE 3

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

					£ thousand
101 157.384 G.230	1973	1974	1975		1976
	s creandafdales bre conqu	EVERGER AND INTELL VICENES	Increase	territorica internation	Value at end of year
	 and working proprietors. 				an strategy and
Materials, stores and fuel	4,273	19,112	-252	19,270	75,021
Work in progress	1,851	2,124	812	3,982	17,502
Goods on hand for sale	1,423	11,844	6,159	9,415	51,665
Total	7,548	33,080	6,720	32,667	144,189

Including estimates for establishments not making satisfactory returns, non-response and establishments exempt because of size. Satisfactory returns accounted for 93 per cent of employment within the industry. (a)

3

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anizado antemita	£ thousand
1975	1976
4,708	4,511
651	396
337	593
2,199	4,197
492	677
37,661	48,407
565	901
43,825	55,340
The second second	

TABLE 4

PA271.1

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	Employment V		Wages and sa	Wages and salaries (f)			
			Total (d)	Opera- tives	Others (e)	Operatives		Others (e)	and water	
Serie of Secondar Repairs presidents	Niacald more al area long telev		(0)		100 gala	Total	per head	Total	per head	
Contrast Beller pice	Number	Number	Number	Number	Number	£ thousand	£	£ thousand	£	
1 - 10	80	78	377)			3,423				
11 - 19	35	33) 510)		305,308	18.779				
20 - 49	26	21	790)	1,481	844	4,933	3,331	2,984	3,536	
50 - 99	12	10) 778)							
100 - 199	15	14	2,235	1,486	749	5,218	3,511	2,853	3,809	
200 - 399	8	7	2,601	1,736	865	5,947	3,426	3,101	3,584	
00 - 499	9	7	4,028	2,565	1,463	9,246	3,605	6,024	4,117	
00 - 749	6	5	3,493	2,148	1,345	7,997	3,723	5,298	3,939	
50 and over	6	5	19,728	12,625	7,103	49,174	3,895	32,035	4,510	

developer and the construction on many			
		ni în program, 197 gaorn establishme	

Total 197 147 34,540 22,041 12,369 82,515 3,744 52,294 4,228 (a) Including estimates for establishments not making satisfactory returns, non-response and establishments with fewer than 20 employees.

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

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

Including working proprietors. (d)

Administrative, technical and clerical employees. (e)

4

Total sales and work done (g)	Gross output	Net output		Gross value added at factor cost
	cre value Emplo ted at percent	Total	per head	Total
£ thousand	£ thousand	£ thousand	£	£ thousand
	bounand			
94,395	95,410	28,332	11,541	<u>(j)</u>
			3.6	2,077
69,056	70,254	24,085	10,776	45,753(j)
85,899	87,906	29,889	11,491	24,345
110,318	111,446	46,047	11,432	38,611
94,673	95,071	33,443	9,574	28,697
540,667	548,317	257,731	13,064	220,080
			45,7	

12,146 357,486 419,527 995,008 1,008,404

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 £24,952 thousand. (f)

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. (g)

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

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

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Net capital expenditure (h)

Total stocks and work in progress at end of year

per

ead		And And And
	£ thousand	£ thousand
(j)	2,487	12,206
9,755(j)	2,286	10,900
9,360	3,137	23,978
9,586	4,411	13,567
8,216	7,541	19,599
11,156	35,478	63,939

10,350

55,340

144,189

TABLE 5

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 employment	Total employment (a)		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	Employment as a percentage of total regional employment in the industry		
RO	Thousands	per cent of United Kingdom	£ thousand	per cent of United Kingdom	£ thousand	£ thousand			
Standard regions of England									
North	6.2	18.1	12,296	22.2	57,267	51,859	75.5		
Yorkshire and Humberside	3.0	8.8	2,077	3.8	*		*		
East Midlands	0.4	1.2	1,368	2.5	*	•	•		
East Anglia	187 x		24,345	* ***		• 008,V	•		
South East	4.1	12.0	4,694	8.5	19,644	15,220	46.5		
South West	1.2	3.6	2,528	4.6	• 692	• 1903			
West Midlands	2.1	6.1	1,987	3.6	13,359	11,933	58.0		
North West	14.8	42.8	25,265	45.7	174,957	146,222	91.1		
England	*	*	*	*	, *	*			
Wales	0.8	2.2	726	1.3	6,954	6,323	75.7		
Scotland	1.5	4.2	2,938	5.3	15,028	12,157	96.9		
Great Britain	*	*	×	*	*	*	*		
Northern Ireland	*		*	*	*				
Unallocated (e)	1-	-	-	_ ·	91,564	78,926	_		
United Kingdom (b)	34.5	100.0	55,340	100.0	419,527	357,486			

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

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

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

Where a census return covered addresses in two or more regions an estimate was made of the net output and gross value added (d) 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.

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TABLE 6

Ac

PA271.1

Percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments employing 20 or more persons, 1976

ccounting year ended		Percentage of total returns received	Percentage of total returns received	
100	Spr me to pres	per cent		
976	April (a)	0.0		
	May	0.0		
	June	0.0		
	July	1.6		
		0.0		
		3.2		
	October	1000 1000 11.3		
	November	3.2		
	December	54.9		
977	January	11.3		
	February	1.6		
		12.9		
		Through any beneformated for each	1714	

(a) From 6th April.

(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) General chemicals industries, minimum list heading 271

Sex	Full-time	Part-time
Nordagen and the second	per cent	per cent
Male	84	steinied sends - loast, un 1 The digunation - countring
Female	13	3

(a) The percentages relate to the number employed (excluding working proprietors) in th 271,1 at June, 1976. In the 1976 Census of Production the employment of the Inorga cent of the employment of minimum list heading 271 as a whole.

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per cent	a reduce the response. Lawrence
0.0	
0.0	
0.0	
1.0	at a bacaquino antoporterna aung
0.0	
2.4	
22.9	
0.5	
62.3	
7.5	
0.1	
3.3	
a three	
	to you any sea you to leave the
	The sufficiency of the second second second
101-056 970	All employees
	per cent
	84
	16
	retrocostic englisher and
2017	Source: Department of Employmen
	Kingdom in minimum list heading

Notes

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 shown.

Industrial classification

Standard The United Kingdom 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 1971.

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 production (corporation) into anterprise analyses of Business Monitor PA1002) related establishments gusiness hour of these purposes an enterprise are proup may be defined as a business consisting of 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 roups 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 astablishments, the changing structure of groups companies and about common ownership links is abtained from many sources, including the Stock Exchange Year Book, company reports, press reports and information supplied by individual establishments.

THE REGISTER

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 imployment. 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).

verage

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

Regions

he regions defined in Table 5 take account of the oundary changes arising out of the Local wernment Act 1972 and the Local Government Act Scotland) 1973. These changes came into effect in pril 1974 in England and Wales and May 1975 in cotland.

ERMS USED IN THE CENSUS REPORT

verage number employed

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

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

erages could be calculated from the figures elating to the last week of each calendar month. tablishments 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 not included.

Employees office employees. earners. 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.

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

(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

Operatives include all other classes of employees, that is, broadly speaking, all manual wage They include operatives employed in power stations, transport (including roundsmen), warehouses, stores, shops and canteens, inspectors, maintenance workers and cleaners. Operatives engaged in outside work of erecting,

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

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 obsoles-cence. 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 establishpayments for repairs and maintenance ment. (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 cutput 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 materials 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 establishment when working on goods supplied by the customers; and of food, etc. for any canteen covered by the establishment's return. Transfere Transfers of goods to the establishment 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 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 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 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 estabinquiry. Sales of goods made for iness condu-lishments 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 leasing are 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. 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 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 been 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

industries this heading covers a wide variety of activities, for example, within the food sector butter packed on commission; within the textile ndustries - making up of garments, fur dressing industries - making up of garments, fur dressing and textile finishing; within printing and pub-lishing - preparatory work on type-setting, block making and binding. Work done is also significant aking all children and heavy engineering Industries, covering erection, installation and repair and jobbing work. Other activities within his heading include exploration work, research and development, glass cutting and dressing and planing of timber.

industrial services rendered include repairs and aintenance, installation work, and technical asearch and studies for other organisations.

apital 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.

on-industrial services rendered

his includes rents received for commercial and ndustrial buildings, amounts charged for hiring out plant, machinery and other goods and amounts charged to other organisations for the provision of ransport. It also includes amounts received for the right to use patents, trademarks, copyrights atc., manufacturing and quarrying rights and tech-ical "know-how" and revenue from such staff acilities as canteens.

oods merchanted or factored

erchanted goods are those (excluding canteen ales) sold without having been subjected to any anufacturing process by the seller.

tocks and work in progress

alues are given of stocks of goods on hand for ale and of materials, stores and fuel, at the end the year of return and of the change during the including any stocks of goods held for year, erchanting or factoring. Work in progress is defined as materials which have been partially processed by the establishment but which are not sually 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 Progress payments made to subprofits. contractors are excluded and progress payments eceived from other organisations are not educted.

ages and salaries

hese are amounts paid during the year to operatives and to administrative, technical and lerical employees. Payments to working roprietors, whether called salaries or not, are excluded. The values shown include all overtime ayments, bonuses and commissions, whether paid ^{egularly} or not, and no deduction is made for ncome tax, insurances, contributory pensions etc. he value of redundancy payments less any amounts eimbursed from Government sources is included. he value of any payments in kind, travelling expenses etc. is excluded.

emuneration 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 Pasis. Only amounts paid to outworkers whose names ppear on the establishment's payroll are included. mounts paid to outworkers by sub-contractors are xcluded.

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 customer and include repair work. Within certain

(v)

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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