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Business Statistics Office

Business Monitor

Report on the Census of Production

Inorganic chemicals



A 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.

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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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PA271.1 Business Monitor

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Report on the

1977

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)

Department of Industry **Business Statistics Office**

Census of Production

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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 end-uses (such as hydrosulphites and hypochlorites) is 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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8 Operating ratios, 1977

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nd gross value added

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n United

Output and costs, 1973–1977 All United Kingdom establishments classified to the industry (a)

A CAR PARTY AND A CAR PARTY AN	Unit	1973	1974	1975	1976	1977
Enterprises	Number	157	151	144	147	143
Establishments	neceția lo statis ucolită statist	205	197	192	197	190
Sales of goods produced	£ thousand	442,303	605,043	645,687	874,293	1,016,837
Receipts for work done and industrial services rendered	tiffed os laitas	(b)	(b)	(b)	(b)	40,630
Capital goods produced for establish- ments' own use	"	7,995	6,817	7,959	7,982	9,475
Non-industrial services rendered	"	2,746	3,423	4,151	5,073	6,263
Goods merchanted or factored	"	38,406	56,779	83,843	107,660	116,565
Total sales and work done (c)	"	491,451	672,062	741,640	995,008	1,189,769
Increase during the year, work in progress and goods on hand for sale	"	3,274	13,968	6,971	13,397	21,408
Gross output	"	494,725	686,030	748,611	1,008,404	1,211,177
Purchases of materials for use in pro- duction, and packaging and fuel		228,314	354,965	360,609	494,281	617,989
Purchases of goods for merchanting or factoring	"	31,031	48,456	71,550	91,511	97,232
Increase during the year, stocks of materials, stores and fuel	"	4,273	19,112	-252	19,270	4,058
Cost of industrial services received	"	9,117	11,818	17,971	22,320	25,952
Excise payments etc. (net)	"	(b)	300	58	35	16
Net output	"	230,535	289,604	298,172	419,527	474,046
Total employment (e)	Thousands	37.2	36.9	35.3	34.5	34.8
Net output per head	£	6,198	7,857	8,450	12,146	13,615
Payments for non-industrial services						
Hire of vehicles, plant and machinery	£ thousand	2,812	3,284	3,773	3,129	5,362
Rents of industrial and commercial buildings	"	(f)	(f)	(f)	1,162	1,081
Commercial insurance premiums		2,610	3,097	3,459	4,109	5,088
Bank charges		89	129	113	113	196
Other non-industrial services		27,169	32,871	38,418	46,100	52,200
_icensing of motor vehicles		517	545	528	711	825
Rates, excluding water rates	"	4,003	5,068	6,298	6,717	6,813
Gross value added at factor cost		193,335	244,611	245,583	357,486	402,481
Gross value added at factor cost per head	£	5,197	6,636	6,960	10,350	11,560

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments with fewer than 20 persons. Satisfactory returns accounted for 94 per cent of employment within the industry.

(b) Included in sales of goods produced.

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

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

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

(f) For 1973–1975 rents of industrial and commercial buildings were not recorded separately, but included in hire of vehicles, plant and machinery.

PA271.1

TABLE 2

Capital expenditure, 1973–1977 All United Kingdom establishments classified to the industry (a)(b)

three adaet	1973	1974	1975
Land and buildings			factor com
New building work	2,149	2,537	4,708
Land and existing buildings			
Acquisitions	249	1,279	651
Disposals	853	601	337
Vehicles			
Acquisitions	2,106	2,756	2,199
Disposals	449	683	492
Plant and machinery			
Acquisitions	24,127	28,043	37,661
Disposals	1,699	781	565
Total net capital expenditure	25,629	32,549	43,825

Including estimates for establishments not making satisfactory returns, non-response and establishments with fewer than 20 persons.

) 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, 1973–1977 All United Kingdom establishments classified to the industry (a)

	1973	1974	1975	1976		1977
	92,4875.25	15,7733	Increase	178,85	tar manager	Value at end of year
Materials, stores and fuel	4,273	19,112	-252	19,270	4,058	77,486
Work in progress	1,851	2,124	812	3,982	8,164	27,628
Goods on hand for sale	1,423	11,844	6,159	9,415	13,244	68,905
Total	7,548	33,080	6,720	32,667	25,466	174,019

Including estimates for establishments not making satisfactory returns, non-response and establishments with fewer than 20 persons.

PA271.1

		£ thousand
1976	1977	alas anti-
101	anexis .	and a second (d)
4,511	5,158	
396	383	
593	389	
4,197	6,636	
677	671	
48,407	70,685	
901	875	
55,340	80,925	

Analysis of establishments by size, 1977 All United Kingdom establishments classified to the industry (a)

PA271.1

Size group (b)	Estab- lish- ments	Enter- prises (c)	Employmen	t		Wages and sa	laries (f)			
			Total (d)	Opera- tives	Others (e)	Operatives		Others (e)	Others (e)	
			(0)	11463		Total	per head	Total	per head	
CI CI	Number	Number	Number	Number	Number	£ thousand	£	£ thousand	£	
1—10	82	80	375)							
11-19	33	30) 470)							
20—49	26	25) 839)	1,268	724	5,113	4,032	2,946	4,069	
50-99	7	7	442)							
100—199	13	12	1,864	1,242	622	5,235	4,215	2,605	4,188	
200–399	6	6	1,951	1,160	791	4,560	3,931	3,534	4,468	
400-499	11	9	4,781	3,012	1,769	12,326	4,092	8,421	4,760	
500-749	5	5	2,921	1,875	1,046	7,401	3,947	4,475	4,278	
750—1,499	3	3	3,295	2,035	1,260	8,419	4,137	5,413	4,296	
,500 and over	4	4	17,879	11,316	6,563	49,413	4,367	33,925	5,169	

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

(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.

4

(d) Including working proprietors.

(e) Administrative, technical and clerical employees.

Total sales and work done (g)	Gross output	sich (d) sugar (d) sold		Gross value added at factor cost
		Total	per head	Total
£ thousand	£ thousand	£ thousand	£ barnes see barnes coobgen d	£ thousand
94,772	96,187	27,277	12,830	(j)
72,131	72,900	22,365	11,998	43,336(j)
78,543	80,810	21,962	11,257	18,613
157,736	162,530	58,431	12,221	49,554
88,187	90,429	38,835	13,295	33,570
126,546	129,567	40,664	12,341	34,345
571,854	578,754	264,512	14,795	223,063

(f) The cost of employers' contributions to national insurance, pensions and welfare schemes and the running costs of canteens, is estimated for the industry at £31,529 thousand.

402,481

13,615

(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.

474,046

1,189,769

1,211,177

-		
	Net capital expenditure (h)	Total stocks and work in progress at end of year
per head		
	£ thousand	£ thousand
(j)	3,132	12,467
10,861(j)	1,813	9,217
9,540	4,780	21,090
10,365	7,398	24,251
11,493	7,237	18,071
10,423	5,734	21,770
12,476	50,831	67,153
		meternintering

11,560

80,925

174,019

PA271.1

Regional distribution of employment, net capital expenditure, net output and gross value added at factor cost, 1977 All United Kingdom establishments classified to the industry (a)

Area	Total employment (b)		Net capital expenditure (c)		Net Gross value output (d) added at factor cost (d)		Gross value added at factor cost returned by establishments with 80 per cent or more of their employment in the region as a proportion of total gross value added at	
							factor cos region	t in the
	Thousands	per cent of United Kingdom	£ thousand	per cent of United Kingdom	£ thousand	£ thousand	percentag	e
Standard regions of								
England					27,27911.8	1032 101	30	
North	6.3	18.0	22,695	28.0	79,395	68,845	70.4	
Yorkshire and Humberside	*	*	*	*	*	*	*	
East Midlands	0.5	1.4	1,298	1.6	6,252	5,321	20.0	
East Anglia	\$007.s*	054.0	818,816	* 32,17	4 44 \$ 39,15	tere*ore	.08 0 * 1	
South East	5.3	15.2	7,337	9.1	61,769	53,130	48.6	
South West	0.7	2.0	1,558	1.9	9,187	7,491	60.6	
West Midlands	2.1	6.0	4,238	5.2	28,871	25,808	57.0	
North West	14.1	40.6	30,840	38.1	223,162	188,064	90.4	
England	32.3	92.7	75,280	93.0	439,906	373,780	/	
Wales	*	*	*	*	*	*	*	
Scotland	1.5	4.2	3,955	4.9	18,446	15,012	96.5	
Great Britain	*	*	*	*	*	*	/	
				*		*	*	
Northern Ireland	*	*	*				/	
United Kingdom	34.8	100.0	80,925	100.0	474,046	402,481	/	

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

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

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

Where a census return covered addresses in two or more regions, an estimate of the net output attributable to each address was made by assuming that net output was proportionate to employment. An estimate for each region was obtained by aggregating estimates of net output for addresses located in that region. Gross value added at factor cost is treated similarly. (d)

6

TABLE 6

Percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments employing 20 or more persons, 1977

Accounting year ended		Percentage of tot	Percentage of total returns received		
	34,767	per cent	nordin militaria		
1977	April (a)	0.0			
	Мау	0.0			
	June	1.6			
	July	0.0			
	August	0.0			
	September	6.6			
	October	11.5			
	November	3.3			
	December	59.0			
1978	January	6.6			
	February	1.6			
	March (b)	9.8			

(a) From 6th April.

(b) Including returns made for twelve-month period ended 1st to 5th April 1978.

TABLE 7

(a)

Percentage analysis of employees, by full and part-time employment and sex, 1977(a) General chemicals, minimum list heading 271

Sex	Full-time	Part-time
and the statement for aller	per cent	per cent
Male	84	- THE REGISTER
Female	13	3

The percentages relate to the numbers employed (excluding working proprietors) in the United Kingdom in minimum list heading 271.1 at mid-June, 1976 because 1977 information is not yet available. In the 1977 Census of Production the employment of the Inorganic chemicals industry represented 31 per cent of the employment of minimum list heading 271 as a whole.

PA271.1

and the second	A state of the second
Percentage of	total number employed
per cent	Cran autorit per brad
0.0	
0.0	
0.1	
n. na transmaa	
0.0	
0.0	
0.0	
3.7	
22.8	
0.0	
0.6	
61.8	
5.5	
5.5	
0.1	
5.4	
5.4	

All employees	A. 3.
per cent	
84	
16	

Source: Department of Employment

Operating ratios, 1977

All United Kingdom establishments classified to the industry (a)

		Unit	1977	
iross output per head		£	34,78	37
let output per head		£	13,61	5
ross value added per head		÷. £	11,56	60
ross value added as a percentage of	gross output	%	3	33
Toto value addod do a porcontage of		0.0		
atio of gross output to stocks			7	.0
lages and salaries as a percentage of	gross value added	%	3	38
atio of operatives to administrative nployees	e, technical and clerical		1	.7
inployees				
ages and salaries per operative		£	4,22	21
ages and salaries per administrative	, technical and clerical			
nployee		£	4,80	00
et capital expenditure per head		£	2,32	24
et capital expenditure as a percenta	1997 - Her C.C.	%	na mede tok ta diverati	20

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

> Produced in Wales by Her Majesty's Stationery Office Reprographic Unit, Cardiff Dd. 597332 K6 Cdf 209 11/79

> > 8

PA271.1

notes give the main information needed for interpreting he figures in the industry Business Monitors: more detailed ormation about the census is given in a separate Business Monitor - PA 1001 (Introductory Notes) of the Report on the nsus of Production, 1977.

ENERAL INFORMATION

anges made for 1977

he Census for 1977 is in line with similar inquiries being nducted in other member countries of the European Economic munities. There was a small number of changes in the scope the industry reports compared with 1976.

the first time in the industry monitors a table has been cluded on operating ratios, calculated from census measures of put, investment, manpower and labour costs.

ecific changes are explained in the introductions to the industry ports or by footnotes to the tables.

ression of information relating to individual undertakings ion 9(5)(b) of the Statistics of Trade Act 1947 states the following provisions shall have effect with respect to any ort, summary or other communication to the public of rmation 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". a figure involved disclosure the contributor concerned was etimes asked to give permission for its publication. In the prity of cases permission was given. When it was refused and ere contributors were not approached the figure has been ressed, either by combining it with other figures, or as in the onal tables, by omitting the figure altogether.

mbols used

e following symbols are used throughout the PA series of ness Monitors:

not available

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

nding of figures

gures in the tables have, where necessary, been rounded to the rest final digit. Where figures have been so rounded, the sum the constituent items may not always agree exactly with the tal shown

ustrial classification

United Kingdom Standard Industrial Classification (SIC) was issued in 1948 and was subsequently revised in 1958 and 8. It exists to promote uniformity and comparability in the cial statistics of the United Kingdom. The general principles wed are those of the International Standard Industrial ification of all Economic Activities of the United Nations stical Office but the United Kingdom SIC reflects the hisation and structure of industry and trade as it exists in the ted Kingdom. The SIC is a classification by activity and is a commodity classification. However, an index of all commodity dings for which sales data are provided in the Quarterly Business tors, is published in Business Monitor PQ 1000.

istical units

estatistical unit for the purpose of the Census is the establishment h is defined in the SIC as the smallest unit which can provide nformation 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 (eg steel making or sugar refining). Typically the establishment embraces all the activities carried on at a single address eg 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 (BSO) 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 eg merchanting, transport, warehousing, for which they keep a separate set of

activities in their return.

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. New additions to the register are obtained from various sources including Companies Registration Office and the Department of Employment. The 1973 Finance Act allows HM Customs and Excise to pass to the BSO lists of businesses registered for VAT. Information from all these sources is used to improve the register, and where necessary, details are sought directly from new businesses. Units which cease to trade are removed from the live register. Increasing use of the information obtained from the Department of Employment, HM Customs and Excise and BSO inquiries has led to improvements on the register, which in turn enabled the BSO to produce better estimates, particularly of numbers of smaller establishments and enterprises.

(iii)

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

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 Business Monitor PA 1002) 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 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 establishments

Coverage

A return was required in the 1977 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.

Regions

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 Scotland.

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:

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

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 (ie persons employed by establishments who worked in their own homes etc on materials supplied by the establishment) are excluded. The figures include persons engaged on merchanting or factoring and canteen workers where particulars in respect of these activities could not be excluded from the return.

Working proprietors

These include all persons regarded as "self-employed" for national insurance purposes and members of their families who 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

Administrative, technical and clerical employees include directors in receipt of a definite wage, salary or commission, managers and works foremen; research and design employees (other than operatives); draughtsmen, editorial staff, advertising staff, travellers and all office employees.

Operatives include all other classes of employees, that is, broadly speaking, all manual wage earners. They include operatives employed in power stations, transport (including roundsmen), warehouses, stores, shops and canteens, inspectors, maintenance workers and cleaners. 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 rents of industrial and commercial buildings, hire of plant, machinery and vehicles (excluding vehicles hired with drivers), commercial insurance premiums, bank charges and amounts paid for professional services, post office services, transport (within the United Kingdom), advertising etc. Amounts payable on royalties for the right to use patents, trademarks, copyrights etc, manufacturing and quarrying rights and technical "know-how" are also included.

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 non-industrial services eg rent of 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) 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, semimanufactured 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

istomers; and of food, etc for any canteen covered by the stablishment's return. Transfers of goods to the establishment another department of the same firm not covered by the stablishment's return are included at a cost corresponding to the stimated selling value recorded by the other department. Amounts avable to transport firms or credited to the firm's own transport partment for delivery of materials are excluded, as are all rchases of machinery and plant charged to capital account. chases of goods for merchanting or factoring have been lected separately since 1973. The values shown exclude VAT. ney include, in addition to the actual purchase price, the value packaging material charged to the establishment. The value of med goods or packaging material returned to suppliers and any de discounts are excluded. Materials purchased duty-paid are luded at their duty-paid value, less any drawback, rebate, etc. he cost of transport is included only if it is included with the urchase price in the firm's accounts. Imported goods are included their full delivered cost. If in the firm's accounts the transport mdocks or airport is not included in the cost of goods purchased, he cost is entered at cif plus duty (if applicable). Leasing, anting and hire purchase charges are excluded.

Sales of goods produced

sales for the purposes of the annual censuses means deliveries on ale of goods made by establishments in the United Kingdom vered by the inquiry. Sales of goods made for these establishments outworkers or by other establishments from materials given out them and sales of waste products are included. New building work and machinery or other capital items produced by establishnents for hiring out or leasing are regarded as sales, the value ncluded in the return being that adopted in the establishments' apital asset accounts. Forward sales and canteen takings are excluded. I sales in the period of the inquiry are included irrespective of hen the goods were manufactured. Goods produced in one establishment and transferred either to ancillary departments not ngaged in production for which there are separate accounts, or to nother establishment of the same firm not covered by the return, re treated as sales by the producing establishment and valued as ar 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.

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

ceipts for work done and industrial services rendered

igures for work done represent the amount charged for work arried 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 ssion; within the textile industries - making up of garments, ur dressing and textile finishing; within printing and publishing eparatory work on type-setting, block making and binding. Work one is also significant in the electrical machinery and heavy ineering industries, covering erection, installation and repair and bbing work. Other activities within this heading include exploration work, research and development, glass cutting and dressing and planing of timber.

ndustrial services rendered include repairs and maintenance, instaation work, and technical research and studies for other ganisations.

apital goods produced for establishments' own use

his includes all work of a capital nature carried out during the ear by the establishments' own staff for their own use.

on-industrial services rendered

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

ods merchanted or factored

erchanted goods are those (excluding canteen sales) sold without

Stocks and work in progress

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, commissions and holiday pay, 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.

Employers' insurance and welfare contributions This item includes employers' contributions to national insurance (and/or earnings related basic contributions under the Social Security Pensions Act, 1975) and 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.

Operating ratios

Remuneration paid to outworkers

having been subjected to any manufacturing process by the seller.

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, together with a margin of overhead costs and profits. Progress payments made to sub-contractors are excluded and progress payments received from other organisations

The remuneration paid to outworkers (ie 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.

The operating ratios shown were obtained by dividing the estimate of the industry total for the quantity shown in the numerator by the corresponding estimate for the quantity shown in the denominator. These estimates cover all establishments classified to the industry, including exempted establishments and nonrespondents. 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 mind that various factors may affect the results - for example, differences in definitions, treatment of depreciation (which is not identified in the census data) and varying practise with regard to stock valuation, may affect comparability in some respects.

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