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Business Statistics Office

Business Monitor

Report on the Census of Production

Lubricating oils and greases





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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. Business Monitors have a code P (for production) followed first by A (indicating that it is an annual series) or O (occasional) 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).

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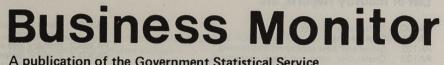
A publication of the Government Statistical Service

Report on the Census of Production 1978

Lubricating oils and greases

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



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PA603 Water supply PA1002 Summary tables

PA263 LUBRICATING OILS AND GREASES

The information in this report relates to establishments classified to the Lubricating oils and greases industry, minimum list heading 263 in the Standard Industrial Classification (revised 1968). The activities of the industry include:-

Blending mineral, animal or vegetable lubricating oils and greases. Blending at refineries is excluded, but their sales of lubricating oils and greases are included.

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			In interpreting	, the data in the	tables it is essen	tial to bear
			in mind the note	es and definition	s which comme	nce on page
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e (iii).

value added

TABLE 1

Output and costs, 1974–1978 All United Kingdom establishments classified to the industry (a)

Parina Charles one hard and scarting	Unit	1974	1975	1976	1977	1978
interprises	Number	138	137	143	134	131
stablishments	"	155	151	156	147	144
ales of goods produced	£ thousand	164,718	194,059	290,560	345,282	350,704
Receipts for work done and industrial ervices rendered	ar or bear a or bear (10).	(b)	(b)	(b)	(b)	2,803
apital goods produced for establish- nents' own use	"	101	67	152	113	447
on-industrial services rendered	"	179	182	162	186	729
boods merchanted or factored	"	14,633	13,466	19,422	23,685	25,541
Total sales and work done (c)	"	179,630	207,774	310,296	369,267	380,224
ncrease during the year, work in rogress and goods on hand for sale	"	4,853	3,383	1,493	4,199	41
Gross output	"	184,483	211,157	311,789	373,465	380,265
urchases of materials for use in pro- uction, and packaging and fuel	"	124,810	134,173	201,273	225,400	236,478
urchases of goods for merchanting or actoring	"	13,407	11,271	19,716	21,802	22,040
ncrease during the year, stocks of naterials, stores and fuel	"	9,343	-1,376	2,327	4,711	865
ost of industrial services received	"	2,878	3,126	3,486	4,080	4,664
xcise payments, etc. (net)	"	-60	336	1,260	2,738	2,464
Net output	"	52,791	60,874	88,381	124,155	115,485
otal employment (d)	Thousands	6.9	6.6	6.9	6.9	7.0
Net output per head	£	7,680	9,164	12,785	18,001	16,590
ayments for non-industrial services						
Hire of vehicles, plant and machinery	£ thousand	1,136	1,383	734	1,210	1,112
Rents of industrial and commercial buildings	"	(e)	(e)	378	561	578
Commercial insurance premiums	"	442	546	751	868	973
Bank charges	"	45	14	29	40	64
Other non-industrial services	"	4,692	5,453	7,555	10,140	11,319
icensing of motor vehicles		166	182	191	292	320
ates, excluding water rates		800	1,013	1,254	1,333	1,622
Gross value added at factor cost	"	45,511	52,282	77,489	109,711	99,496
Gross value added at factor cost	- Mital	0.004	070 5	11 000	15 007	14 202
per head	£	6,621	7,870	11,209	15,907	14,293

Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census. (a) Satisfactory returns accounted for 88 per cent of employment within the industry.

(b) Included in sales of goods produced.

Details of manufacturers' quarterly sales of principal products are published regularly in Business Monitor PQ263. (c)

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

For 1974-1975 rents of industrial and commercial buildings were not recorded separately, but included in hire of vehicles, plant and (e) machinery.

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Capital expenditure, 1974–1978 All United Kingdom establishments classified to the industry (a)(b)

TABLE 2

			and the second
Televise Crescoulard	1974	1975	1976
Land and buildings		-	There and
New building work	633	1,288	2,411
Land and existing buildings			
Acquisitions	404	373	442
Disposals	3	380	162
Vehicles			
Acquisitions	929	1,034	1,135
Disposals	258	387	351
Plant and machinery			
Acquisitions	3,390	3,795	3,541
Disposals	86	47	44
Total net capital expenditure	5,009	5,676	6,972

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

Capital expenditure in respect of manufacturing establishments where production had not commenced before the end of the year, is included.

TABLE 3

Stocks and work in progress, 1974–1978 All United Kingdom establishments classified to the industry (a)

	1974	1975	1976	1977		1978
	880,8 TILL1888,81	19 888.5	Increase	108,00	ter an rat	Value at end of year
Materials, stores and fuel	9,343	-1,376	2,327	4,711	865	33,265
Work in progress	47	19	56	78	-291	349
Goods on hand for sale	4,806	3,363	1,437	4,120	332	27,485
Total	14,196	2,007	3,820	8,909	906	61,100

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

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ar regarder alle sie	n an Artin Mand and An Anna an Anna an Anna	£ thousand
1977	1978	्र भारत
(5)	ermenne -	
3,299	1,337	
405	84	
75	101	
1,780	2,370	
440	495	
4,651	4,870	
34	96	
9,586	7,969	SEL-NE

TABLE 4

Analysis of establishments by size, 1978 All United Kingdom establishments classified to the industry (a)

PA263

Size group (b)	Estab- lish- ments	Enter- prises (c)	Employr	nent		Wages and sal	aries (f)				
			Total (d)	Opera- tives	Others (e)	Operatives	Operatives			Others (e)	
			(0)	LIVES		Total	per head	201	Total	per head	
anter provide	Numbe	r Number	Number	Number	Number	£ thousand	£		£ thousand	£	
1-10	72	70	318)								
11-19	20	19	285)	1,115	1,081	4,089	3,667		4,835	4,473	
20-49	21	20	642)	1,113	1,001	4,000	0,00.		()000	4,470	
50-99	15	14	1,061)								
100–199	6	6	860	420	438	1,932	4,600		2,062	4,708	
200–299	6	6	1,458	724	734	2,986	4,124		3,402	4,634	
300 and over	4	4	2,337	1,310	1,027	5,582	4,261		5,370	5,229	

Total 144 131	6,961	3,569	3,280	14,589	4,088 15,	669 4,777

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

(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.

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(d) Including working proprietors.

(e) Administrative, technical and clerical employees.

otal sales nd work one (g)	Gross output Net output						Gross value added at factor cost		Net capital expenditure (h)	Total stocks and work in progress at end of year	
is coppe ou and hit in	groters groters lackar o recipt		Total	*	per head		Total	per head			
thousand	£ thousand	nseyon	£ thousa	nd	£ 10 10		£ thousand	E tuso reg betraU mobern X	£ thousand	£ thousand	
01,517	101,911		25,531		11,072		(j)	(j)	2,629	15,978	
71,265	71,025		25,209		29,312		43,068(j)	13,603(j)	1,444	11,644	
77,193	77,127		25,180		17,270		22,900	15,706	1,303	11,466	
30,249	130,203		39,565		16,930		33,529	14,347	2,594	22,011	
			211	ne celonce							
0,224	380,265		5774		16,590		99,496	14,293	7.060	61 100	
	000,200		115,405	1 (DO) (H N) 3	10,550		55,450	14,293	7,969	61,100	
The cost o	f employers' of for the indust	contrib	utions to	national	insuranc	e, pensi	ons and welfare s	chemes and the r	unning costs of ca	nteens is	

(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.

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TABLE 5

Regional distribution of employment, net capital expenditure, net output and gross value added at factor cost, 1978 All United Kingdom establishments classified to the industry (a)

Area	Total employment	(b)	Net capital expenditure (c)	Net output (d)	Gross value 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 cost in the region
aneoqra a	Thousands	per cent of United Kingdom	£ thousand	per cent of United Kingdom	£ thousand	£ thousand	percentage
Standard regions of England							
North	0.1	2.1	169	2.1	1,473	1,155	50.0
Yorkshire and Humberside	*	*		*	*	*	*
East Midlands		408 * 087999	(* 30%)@94	• (200.91	* 903	 ★ 00 5 28. 	*****
East Anglia	<u>-</u> 235,7	824,884,455	-03%/45	- 332.0	0-08	$d \mathbb{C}_{n_1 n_2} (q_1) \geq -$	121,7 <u>-</u> 3
South East	•00.0		*				EDS.04
South West	*	*	*	*	*	*	*
West Midlands	1.2	17.6	2,181	27.4	13,985	11,246	24.1
North West	*	*	*	*	*	*	*
England	6.6	94.3	7,245	90.9	111,190	96,145	
Wales	*	*	*	*	*	*	*
Scotland	0.3	4.7	540	6.8	3,534	2,726	64.4
Great Britain	*	*	*	*	*	*	
Northern Ireland	*	*	*	*	*	*	*
United Kingdom	7.0	100.0	7,969	100.0	115,485	99,496	

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

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

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)

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TABLE 6

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Percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments, 1978

Accounting year ended		Percentage of total returns received	Percentage of total number employed		
	54,149 54,623	per cent	per cent	to in the board near turning and	
1978	April (a)	-	andra and the second states of the second		
	Мау	4.1	0.8		
	June	2.0	0.3		
	July	2.0	0.5	,	
	August	2.0	4.7	and a second s	
	September	4.1	1.6		
	October	4.1	1.7		
	November	2.0	0.4		
	December	53.1	68.6		
1979	January		n hafat tini <u>n</u> din ne art en Annaurin		
	February	2.0	0.5		
	March (b)	24.5	20.8		

- (a) From 6th April.
- (b) Including returns made for twelve-month period ended 1st to 5th April 1979.

TABLE 7

Percentage analysis of employees, by full and part-time employment and sex, 1977(a)

Sex	Full-time	Part-time	
	per cent	per cent	
Male	78	1	
Female	17	4	
		4	

(a) The percentages relate to the numbers employed (excluding working proprietors) in the United Kingdom at mid-June, 1977.

7

per cent				
79				
21				

Source: Department of Employment

Operating ratios, 1977–1978

All United Kingdom establishments classified to the industry (a)

			Unit	1977	1978
Gross output per head			£	54,149	54,628
Net output per head			£	18,001	16,590
Gross value added per head			£	15,907	14,293
foss value added per fread					
Gross value added as a percentage of g	ross output		%	29	26
Ratio of gross output to stocks				6.3	6.2
Vages and salaries as a percentage of g	ross value added		%	25	30
	2.0				
Ratio of operatives to administrative, temployees	technical and cler	ical		1.1	1.1
Vages and salaries per administrative,	technical and cler	ical	£		
mployee				4,066	4,777
Vages and salaries per operative			£	3,860	4,088
Net capital expenditure per head			£	1,390	1,145
Net capital expenditure as a percentag	e of gross value a	dded	%	9	8

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

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nese notes give the main information needed for interpreting e figures in the industry Business Monitors: more detailed formation about the census is given in a separate Business onitor PA 1001 (Introductory Notes) of the Report on the msus of Production, 1978.

ENERAL INFORMATION

anges made for 1978

The Census for 1978 is in line with similar inquiries being onducted in other member countries of the European Economic communities.

The census differed from earlier censuses in three respects. Sampling was introduced for establishments employing 20 to 49 and a sample of smaller units was selected. A new question on the leasing of capital assets was included for 1978 only. This will provide register information for use in related inquiries into leasing.

ppression of information relating to individual undertakings ion 9(5)(b) of the Statistics of Trade Act 1947 states ne following provisions shall have effect with respect to any port, summary or other communication to the public of rmation obtained under the foregoing provisions of this Act a compiling any such report, summary or communication the competent authority shall so arrange it as to prevent any narticulars 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 his provision shall not prevent the disclosure of the total quantity or value of any articles produced, sold or delivered; so, owever, that before disclosing any such total the competent authority shall have regard to any representations made to hem 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" figure involved disclosure the contributor concerned was times asked to give permission for its publication. In the ority of cases permission was given. When it was refused and ere contributors were not approached the figure has been pressed, either by combining it with other figures, or as in the onal tables, by omitting the figure altogether.

ymbols 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.

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

he United Kingdom Standard Industrial Classification (SIC) was ist issued in 1948 and was subsequently revised in 1958 and 968. It exists to promote uniformity and comparability in the ifficial statistics of the United Kingdom. The general principles ollowed 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 PQ 1000.

Statistical units

statistical unit for the purpose of the Census is the establishment ch is defined in the SIC as the smallest unit which can provide 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 (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 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 in more than one of the countries of the United Kingdom

Establishments are aske relating to any department transport, warehousing, accounts. Transfers of treated as sales and res possible as if sold to a accounts are not kept ti activities in their return. Particulars relating to l istration of the produc were included. Where mo in respect of the head of For certain purposes (especially the enterpri related establishments a as a business consisting more establishments the purpose of ensurir activities of any one relationship of establish companies and about many sources, includin reports, press reports 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. New additions to the register are obtained from various sources including the Department of Employment and HM Customs and Excise. The 1973 Finance Act allows the latter to pass lists of businesses registered for VAT to the BSO. Where necessary details are sought directly from new businesses. Units which cease to trade are removed from the live register.

Coverage

In recent censuses returns have been required from all establishments employing 20 or more. For the 1978 Census in 68 selected manufacturing industries coverage of establishments in the 20 to 49 employment size band has been reduced to a 1 in 2 sample. This change has relieved some 5,800 firms of the need to complete a census return. The Census has included for the first time a small sample (around 10 per cent) of units employing 11 to 19 to meet an EEC requirement to collect a limited range of data from smaller units every 5 years.

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 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. An enterprise group is 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

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 average number of persons on the payroll during the year of return. 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. Full-time and part-time employees are included but 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 and to state whether any of the investment shown in cost of new building work, vehicles or plant and machinery included goods for letting out on hire or leasing.

(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

(iv)

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

tomers; and of food, etc for any canteen covered by the stablishment's return. Transfers of goods to the establishment m 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. rchases of goods for merchanting or factoring have been lected separately since 1973. The values shown exclude VAT. by include, in addition to the actual purchase price, the value f packaging material charged to the establishment. The value of turned goods or packaging material returned to suppliers and any rade discounts are excluded. Materials purchased duty-paid are cluded at their duty-paid value, less any drawback, rebate, etc. he cost of transport is included only if it is included with the rchase price in the firm's accounts. Imported goods are included their full delivered cost. If in the firm's accounts the transport omdocks or airport is not included in the cost of goods purchased, the cost is entered at cif plus duty (if applicable). Leasing, nting and hire purchase charges are excluded.

ales of goods produced

ales for the purposes of the annual censuses means deliveries on le 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 ork and machinery or other capital items produced by establishents for hiring out or leasing are regarded as sales, the value luded in the return being that adopted in the establishments' capital asset accounts. Forward sales and canteen takings are excluded. Il sales in the period of the inquiry are included irrespective of nen the goods were manufactured. Goods produced in one tablishment and transferred either to ancillary departments not ngaged in production for which there are separate accounts, or to ther establishment of the same firm not covered by the return, re treated as sales by the producing establishment and valued as r as possible as if they had been sold to an independent purchaser. ods transferred to wholesale or retail selling organisations, for ich separate accounts are kept are valued on the same basis.

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

ceipts for work done and industrial services rendered

igures for work done represent the amount charged for work rried out on materials supplied by a customer and include repair ork. Within certain industries this heading covers a wide variety of ivities, for example, within the food sector - butter packed on ission; within the textile industries - making up of garments, r dressing and textile finishing; within printing and publishing eparatory work on type-setting, block making and binding. Work ne is also significant in the electrical machinery and heavy neering industries, covering erection, installation and repair and bbing work. Other activities within this heading include exploration ork, research and development, glass cutting and dressing and aning of timber

dustrial services rendered include repairs and maintenance, instation work, and technical research and studies for other anisations.

pital goods produced for establishments' own use

is includes all work of a capital nature carried out during the ^{ear} 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 vehicles 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 year, including any stocks of goods held for merchanting or factoring. Work in progress is defined as materials which have been partially processed by the establishment but which are not usually sold or transferred to another establishment without further processing. The values include the cost of materials consumed and labour used. Progress payments made to 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 included.

Remuneration paid to outworkers

Employers' insurance and welfare contributions This item includes employers' contributions to national insurance under the Social Security Pensions Act, 1975 as well as commercial insurance premiums to provide pensions, superannuation or other retirement benefits, sickness benefits, personal accident benefits, disability or death benefits for employees or former employees or their dependants. Contributions to the running costs of canteens, social centres, children's and holiday homes, etc for employees, former employees and their dependants are also included.

Operating ratios

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 each industry, including not selected establishments and non-respondents. Within an industry, it is possible to compare ratios for an individual firm with the ratios shown for the relevant industry. However, it is important to bear in 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 practice with regard to stock valuation, may affect comparability in some respects.

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.

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