PA362

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1977

Business Statistics Office

Business Monitor

Report on the Census of Production

Insulated wires and cables

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Enquiries:
Business Statistics Office
Newport, Gwent
NPT 1XG
Newport 56111 (STD code 0633) ext 2455
Telex 497121
Answer Back BSONPT G

PA362

Business Monitor

A publication of the Government Statistical Service

Report on the Census of Production 1977

Insulated wires and cables

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 Grain milling

Coal mining
Stone and slate quarrying and mining

Chalk, clay, sand and gravel extraction

Petroleum and natural gas Miscellaneous mining and quarrying

Bread and flour confectionery

PA1001

PA101

PA 102 PA103

PA109

PA211

PA212

PA271.

PA321

PA279.5 Printing ink

	CONTRACTOR OF STREET, AND ASSESSMENT OF STREET, AND ASSESSMENT OF STREET, AND ASSESSMENT OF STREET, ASSESSMENT
PA369.1	Electrical equipment for motor vehicles, cycles and aircraft
PA369.2	Primary and secondary batteries
PA369.4	Electric lamps, electric light fittings, wiring accessories, etc.
PA370	Shipbuilding and marine engineering
PA380	Wheeled tractor manufacturing
PA381.1	Motor vehicle manufacturing
	Trailers, caravans and freight containers
PA382	Motor cycle, tricycle and pedal cycle manufacturing
PA383	Aerospace equipment manufacturing and repairing
DA 204	I time reilmen trock aguinment railman carrier

PA213 PA214 Biscuits Bacon curing, meat and fish products PA215 Milk and milk products Locomotives, railway track equipment, railway carriages, Sugar PA384 PA216 wagons and trams Engineers' small tools and gauges Cocoa, chocolate and sugar confectionery PA217 PA390 Fruit and vegetable products PA218 Hand tools and implements Animal and poultry foods Vegetable and animal oils and fats PA219 Cutlery, spoons, forks and plated tableware, etc. PA392

PA221 PA393 Bolts nuts screws rivets etc. PA229.1 Margarine Wire and wire manufactures PA394 PA229.2 Starch and miscellaneous foods PA395 Cans and metal boxes PA231 Brewing and malting Jewellery and precious metals PA396 PA232 Soft drinks Metal furniture PA399. PA239.1 Spirit distilling and compounding

PA399 5 Drop forgings, etc. PA239.2 British wines, cider and perry PA240 PA399 6 Metal hollow-ware Tobacco PA399.8 Miscellaneous metal manufacture PA261 Coke ovens and manufactured fuel PA411 Mineral oil refining
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PAAAA Overalls and men's shirts, underwear, etc. Iron castings, etc. PA445 Dresses lingerie, infants' wear, etc. Aluminium and aluminium alloys PA446 Hats, caps and millinery PA322 Copper, brass and other copper alloys Corsets and miscellaneous dress industries PA449. PA323 Miscellaneous base metals

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PA473 Bedding, etc. PA339.2 Printing, bookbinding and paper goods machinery Shop and office fitting PA339.3 Refrigerating machinery, space-heating, ventilating and air-conditioning equipment Wooden containers and baskets PA475 Miscellaneous wood and cork manufactures PA339.5 Scales and weighing machinery and portable PA479

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Photographic and document copying equipment PA491 Rubber PA351 PA492 Linoleum, plastics floor-covering, leathercloth, etc. Watches and clocks Brushes and brooms PA493 PA353 Surgical instruments and appliances Toys, games and children's carriages PA494.

PA354 Scientific and industrial instruments and systems PA494.3 Sports equipment Electrical machinery Miscellaneous stationers' goods PA495 PA362 Insulated wires and cables PA496 Plastics products PA363 Telegraph and telephone apparatus and

PA499 1 Musical instruments equipment Radio and electronic components
Gramophone records and tape recordings PA499.2 Miscellaneous manufacturing industries PA364 PA500 Construction PA365.1 PA601 Gas Broadcast receiving and sound reproducing

Electricity PA602 PA603 Water supply PA366 Electronic computers Summary tables PA367 Radio, radar and electronic capital goods PA368 Electrical appliances primarily for domestic use

PA362 INSULATED WIRES AND CABLES

The information in this report relates to establishments classified to the Insulated wires and cables industry, minimum list heading 362 in the Standard Industrial Classification (revised 1968). The activities of the industry include:-

Manufacturing insulated electrical instrument wire, cables for telecommunication and for power transmission, and cable jointing materials and accessories (other than insulating materials).

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

	Unit	1973	1974	1975	1976	1977
Enterprises	Number	65	70	70	68	65
Establishments	"	93	95	97	96	86
Sales of goods produced	£ thousand	526,195	702,536	653,838	724,228	843,231
Receipts for work done and industrial ervices rendered	its man at lettre	(b)	(b)	(b)	11,867	10,335
Capital goods produced for establish- nents' own use	,,	1,424	645	1,491	1,581	1,021
Ion-industrial services rendered	,,	1,992	2,019	2,429	3,635	3,438
Goods merchanted or factored		(b)	(b)	(b)	(b)	(b)
Total sales and work done (c)		529,612	705,200	657,758	741,312	858,070
ncrease during the year, work in rogress and goods on hand for sale	"	16,730	12,342	-6,098	21,554	7,115
Gross output		546,341	717,541	651,660	762,866	865,185
urchases of materials for use in pro- uction, and packaging and fuel		385,338	542,361	422,998	500,500	602,138
urchases of goods for merchanting or actoring	,,	(d)	(d)	(d)	(d)	(d)
ncrease during the year, stocks of naterials, stores and fuel	· ·	8,689	12,076	-7,250	4,161	274
Cost of industrial services received	"	13,093	13,906	15,198	17,396	22,341
Net output		156,600	173,350	206,214	249,131	240,979
otal employment (e)	Thousands	46.0	46.3	43.4	41.9	42.3
Net output per head	£	3,406	3,743	4,750	5,944	5,696
ayments for non-industrial services						
Hire of vehicles, plant and machinery	£ thousand	1,069	1,649	1,753	1,126	1,557
Rents of industrial and commercial buildings		(f)	(f)	(f)	785	872
Commercial insurance premiums		1,751	1,889	2,296	2,420	2,796
Bank charges	"	132	153	431	540	818
Other non-industrial services	"	8,785	13,489	14,387	17,697	21,048
icensing of motor vehicles		136	159	181	203	302
lates, excluding water rates		2,681	3,678	4,478	5,233	5,258
Gross value added at factor cost		142,045	152,333	182,689	221,126	208,329
Gross value added at factor cost per head	£	3,089	3,289	4,208	5,276	4,924

Including estimates for establishments not making satisfactory returns, non-response and establishments with fewer than 20 persons. Satisfactory returns accounted for 93 per cent of employment within the industry.

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

							£ thousand
150.000 (00.000,000)	1973	1974	1975	1976	Osma 1	977	Size
Land and buildings				(a)	amem		(a)
New building work	2,784	3,003	1,567	1,115		3,138	
Land and existing buildings							
Acquisitions	59	274	1,227	684		331	
Disposals	164	22	141	310		934	
Vehicles							
Acquisitions	796	1,005	1,465	1,366		2,060	
Disposals	201	265	328	302		454	
Plant and machinery							
Acquisitions	16,403	17,701	19,358	17,565	2	20,280	
Disposals	341	647	346	200		507	
Total net capital expenditure	1 9,334	21,049	22,801	19,917	1774 B :	23,914	

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

TABLE 3

Stocks and work in progress, 1973–1977

All United Kingdom establishments classified to the industry (a)

		1973	1974	1975	1976		1977
		100.292	S. MARKET	Increase	or ga	300 ₁₀₇ 107	Value at end of year
Materials, sto	ores and fuel	8,689	12,076	-7,250	4,161	274	42,386
Work in prog	ress	10,573	2,715	-3,950	8,794	6,017	47 ,492
Goods on ha	nd for sale	6,157	9,627	-2,147	12,759	1,097	61,518
Total		25,419	24,417	-13,348	25,715	7,389	151,396

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

⁽b) Included in sales of goods produced.

⁽c) Details of manufacturers' quarterly sales of principal products are published regularly in Business Monitor PQ362.

⁽d) Included in 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.

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

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

Size group (b)	Esta lish mer		Enter- prises (c)	Employmen	it		Wages and sa	laries (f)		
				Total (d)	Opera- tives	Others (e)	Operatives		Others (e)	New pull
		200		(4)	tives	(0)	Total	per head	Total	per head
a (14 mar) (16 mar)	Nur	nber	Number	Number	Number	Number	£ thousand	£	£ thousand	£
1-10	22		22	117)						
11–19	11		9	168)						
20-49	12		12	348)	591	331	1,799	3,044	1,209	3,653
50-99	5		5	325)						
100-199	12		12	1,727	1,303	422	4,143	3,180	1,761	4,174
200-399	8		7	2,066	1,486	580	4,780	3,217	2,207	3,804
400-749	5		4	2,834	2,168	666	6,798	3,136	2,501	3,755
750-1,499	6		4	6,948	4,488	2,460	15,832	3,528	9,284	3,774
1,500 and over	5		5	27,776	19,086	8,690	66,939	3,507	35,418	4,076

Total	86	65	42,309	29,122	13,149	100,292	3,444	52,379	3,984

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

Total sales and work done (g)	Gross output	Net output		Gross value added at factor cost	100 Maria	Net capital expenditure (h)	Total stocks and work in progress at end of year	
		Total	per head	Total	per head			
£ thousand	£ thousand	£ thousand	£ very very testints malages X	£ thousand	£	£ thousand	£ thousand	
19,210	19,816	7,869	8,214	(j)	(j)	665	4,019	
38,400	39,239	14,247	8,250	18,856(j)	7,023(j)	1,070	7,297	
37,994	39,192	15,041	7,280	13,219	6,398	1,426	8,192	
52,368	52,827	16,654	5,876	14,847	5,239	1,254	9,779	
161,232	160,466	54,529	7,848	47,331	6,812	4,355	33,027	
548,867	553,644	132,639	4,775	114,076	4,107	15,143	89,081	

BOHAN MENERAL							
858,070	865,185	240,979	5,696	208,329	4,924	23,914	151,396

⁽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 £23,156 thousand.

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

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

⁽d) Including working proprietors.

⁽e) Administrative, technical and clerical employees.

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

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

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

TABLE 6

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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		otal nploymen	t (b)	Net capital expenditure	(c)	Net output (d)	Gross valu added at factor cos (d)	factor co t by establ 80 per ce	ue added at st returned ishments with ent or more
								in the reg	on of total
								gross valu factor co region	ue added at st in the
STRAIGHT 3	Total T	housands	per cent of United Kingdom	£ thousand	per cent of United Kingdom	£ thousand	£ thousan	d percentag	ge
Standard regions of England									
North	100	2.1	4.9	555	2.3	10,988	9,870	76.6	
Yorkshire and Humberside	(0.8	2.0	381	1.6	4,492	3,733	38.1	
East Midlands	N oto	1.5	3.5	1,036	4.3	9,261	8,250	80.7	
East Anglia		*	865.8	eris, t ill	1,280*	1297 * sq.a	. 2.432 *	5212220*	
South East	13	3.0	30.8	5,726	23.9	92,406	79,973	63.7	
South West	(0.1	0.3	65	0.3	761	650	0.0	
West Midlands		*	*	*	*	*	*	***	
North West	19	9.8	46.8	12,031	50.3	82,468	71,457	93.3	100,010
England	31	7.5	88.6	19,847	83.0	200,790	174,286	/	
Wales	;	3.0	7.1	3,022	12.6	28,364	23,651	87.2	
Scotland			*	*	*	*	*	*	
Great Britain	_	*	*	*	*	*	*	/	
Northern Ireland		*	*	*	*	*	*	*	
United Kingdom	42	2.3	100.0	23,914	100.0	240,979	208,329		

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

(d) Where a census return covered addresses in two or more regions, an estimate 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.

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

Accoun	ting year ended	Percentage of total returns received	Percentage of	total number employed
	20.449	per cent	per cent	been ted juspud sed E
1977	April (a)	0.0	0.0	
	May	0.0	0.0	
	June	0.0	0.0	boot are betweenew store
	July	2.5	0.5	
	August	0.0	0.0	
	September	5.0	0.5	
	October	2.5	0.1	
	November	5.0	3.1	
	December	47.5	64.2	
1978	January	5.0	0.4	
	February	0.0	0.0	
	March (b)	32.5	31.2	

(a) From 6th April.

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

TABLE 7

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

Sex	Full-time	Part-time	All employees
	per cent	per cent	per cent
Male	72	- THE BUSINESS	72
Female	24	4	28

Source: Department of Employment

⁽a) The percentages relate to the numbers employed (excluding working proprietors) in the United Kingdom at mid-June, 1976, because 1977 information is not available.

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Operating ratios, 1977 All United Kingdom establishments classified to the industry (a)

			Unit	1977	
Gross output per head			£	20,449	
Net output per head			£ 0.0	5,696	
Gross value added per head			£	4,924	
The same of the sa			2.5	viat.	
Gross value added as a percentage of gros	s output		%	24 38000A	
Ratio of gross output to stocks				5.7	
Nages and salaries as a percentage of gros	s value added		%	73	
Ratio of operatives to administrative, tec employees	hnical and clerica	1 - 555		2.2	
Wages and salaries per operative			£	3,444	
Wages and salaries per administrative, tec employee	hnical and clerica	I	£	3,984	
Net capital expenditure per head			£	565	
Net capital expenditure as a percentage o	f gross value add	ed	%	11	

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

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 - PA 1001 (Introductory Notes) of the Report on the Census of Production, 1977.

GENERAL INFORMATION

Changes made for 1977

The Census for 1977 is in line with similar inquiries being anducted 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 1976.

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

pecific 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" a figure involved disclosure the contributor concerned was sometimes asked to give permission for its publication. In the najority of cases permission was given. When it was refused and where contributors were not approached the figure has been

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

suppressed, either by combining it with other figures, or as in the

- not available
- nil or less than half the final digit shown

egional tables, by omitting the figure altogether.

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

revised

Rounding of figures

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

ndustrial classification

ne United Kingdom Standard Industrial Classification (SIC) was irst issued in 1948 and was subsequently revised in 1958 and 968. It exists to promote uniformity and comparability in the official statistics of the United Kingdom. The general principles llowed are those of the International Standard Industrial lassification of all Economic Activities of the United Nations tatistical Office but the United Kingdom SIC reflects the ganisation and structure of industry and trade as it exists in the ited Kingdom. The SIC is a classification by activity and is ot a commodity classification. However, an index of all commodity adings for which sales data are provided in the Quarterly Business Monitors, is published in Business Monitor PQ 1000.

tatistical units

ne statistical unit for the purpose of the Census is the establishment ich is defined in the SIC as the smallest unit which can provide ne 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 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 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 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.

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.

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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.

Region

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:

a) administrative, technical and clerical employees

(b) all other employees (operatives)

Averages could be calculated from the figures relating to the last week of each calendar month. Establishments were also required to state the number of working proprietors where appropriate and these are included in total employment figures. Outworkers (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.

Purchase

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

customers; and of food, etc for any canteen covered by the establishment's return. 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 cif plus duty (if applicable). Leasing, renting and hire purchase charges are excluded.

Sales of goods produced

Sales for the purposes of the annual censuses means deliveries on sale of goods made by establishments in the United Kingdom covered by the inquiry. Sales of goods made for these establishments by outworkers or by other establishments from materials given out to them and sales of waste products are included. New building work and machinery or other capital items produced by establishments for hiring out or 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. 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 in the "net selling value" defined as the amount (excluding VAT) charged to customers whether on an ex-works or delivered basis, after any trade discounts and agents' commissions have been deducted. The cost of packing materials less allowance for returnable cases is included. In industries where products attract Excise Duty the value stated is usually inclusive of duty if sold duty-paid and exclusive of duty if sold in bond or exported.

Receipts for work done and industrial services rendered

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

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

Capital goods produced for establishments' own use

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

Non-industrial services rendered

This includes rents received for commercial and industrial buildings, amounts charged for hiring out plant, machinery and 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, together with a margin of overhead costs and profits. Progress payments made to sub-contractors 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, 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.

Remuneration paid to outworkers

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.

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

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 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 practise with regard to stock valuation, may affect comparability in some respects.

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