PA394

1977

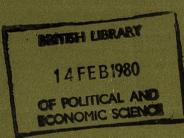
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Business Statistics Office

Business Monitor

Report on the Census of Production

Wire and wire manufactures



C C

A publication of the Government Statistical Service

PA394

A publication of the Government Statistical Service

Report on the **Census of Production** 1977

Wire and wire manufactures

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)

Special Note for Purchasers Commencing with the 1971 Census, the Census of

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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.

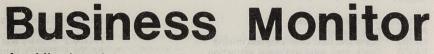
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A service of statistical information and advice is provided to the Government by specialist staffs employed in the statistics division of individual Departments. Statistics are made generally available through their publications and further information and advice on them can be obtained from the Departments concerned.

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PA 394 WIRE AND WIRE MANUFACTURES

LIST

The information in this report relates to establishments classified to the Wire and wire manufactures industry, minimum list heading 394 in the Standard Industrial Classification (revised 1968). The activities of the industry include:-

Manufacturing ferrous and non-ferrous wire and wire products such as wire nails, wire netting, wire gauze, etc. Fabricated steel re-inforcement for concrete is included but insulated electrical wire and wire mattresses are excluded.

				In interpretin in mind the notes	g the data in the and definitions	tables it is essent which commence	ial to bear on page (iii).	
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able	(99) 	Title						
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1		Output	and costs, 19	73–1977				
2		Capital	expenditure,	1973–1977				
3		Stocks	and work in p	progress, 1973–197	7			
4		Analysi	is of establish	ments by size, 1977				
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6				of twelve-month per ents employing 20 c			rom United	
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8		Operati	ing ratios, 197	77				

(ii)

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TABLE 1

Output and costs, 1973-1977

All United Kingdom establishments classified to the industry (a)

	Unit	1973	1974	1975	1976	1977
Enterprises	Number	362	378	401	406	406
Establishments	"bel mass and a	473	487	516	519	516
Sales of goods produced	£ thousand	398,605	532,894	599,472	691,265	794,716
Receipts for work done and industrial services rendered	an page (jui).	(b)	(b)	(b)	4,051	1,588
Capital goods produced for establish- ments' own use	"	810	528.	1,035	1,138	1,114
Non-industrial services rendered	"	1,379	1,063	1,369	1,027	1,835
Goods merchanted or factored		13,256	14,174	14,344	23,409	24,552
Total sales and work done (c)	"	414,049	548,659	616,220	720,890	823,806
Increase during the year, work in progress and goods on hand for sale	"	6,895	11,162	3,594	14,202	6,842
Gross output	"	420,945	559,821	619,814	735,092	830,648
Purchases of materials for use in pro- duction, and packaging and fuel	"	256,521	366,733	399,343	466,959	540,968
Purchases of goods for merchanting or actoring	"	11,682	12,123	12,024	20,125	20,807
ncrease during the year, stocks of naterials, stores and fuel	"	7,949	14,984	-2,063	17,400	-2,169
Cost of industrial services received	"	8,368	11,391	11,280	14,689	16,220
Net output	"	152,323	184,558	195,104	250,719	250,483
Fotal employment (d)	Thousands	40.6	40.8	39.9	37.8	38.1
Net output per head	£	3,753	4,523	4,887	6,632	6,575
Payments for non-industrial services						
Hire of vehicles, plant and machinery	£ thousand	1,492	1,463	1,765	1,057	1,502
Rents of industrial and commercial buildings	,,	(e)	(e)	(e)	1,100	1,427
Commercial insurance premiums	"	1,166	1,474	1,778	2,312	2,706
Bank charges	"	198	247	221	290	304
Other non-industrial services	"	9,975	13,286	16,088	19,160	24,783
icensing of motor vehicles	"	105	116	158	166	190
lates, excluding water rates	"	2,188	3,023	3,834	4,379	5,031
Gross value added at factor cost	"	137,200	164,949	171,260	222,255	214,539
Gross value added at factor cost per head	£	3,381	4,042	4,290	5,879	5,631

Including estimates for establishments not making satisfactory returns, non-response and establishments with fewer than 20 persons. Satisfactory returns accounted for 74 per cent of employment within the industry. (a)

(b) Included in sales of goods produced.

(c) Details of manufacturers' quarterly sales of principal products are published regularly in Business Monitor PQ394.

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

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

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TABLE 2

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

and some and the second	1973	1974	. 1	975
Land and buildings			Witchess of	
New building work	1,931	2,966		3,181
Land and existing buildings				
Acquisitions	495	513		386
Disposals	324	222		26
Vehicles				
Acquisitions	1,154	1,576		1,382
Disposals	305	465		357
Plant and machinery				
Acquisitions	8,514	14,189	1	5,632
Disposals	249	499		1,999
Total net capital expenditure	e 11,214	18,058	3,108	8,198
	Particular and	and an annual		Contraction of the local distance of the loc

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

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

TABLE 3

Stocks and work in progress, 1973—1977 All United Kingdom establishments classified to the industry (a)

	19	73	1974	1975	1976		1977
	3,250	.044.6.8	9,020	Increase	\$	202 378 - 2 Nord -	Value at end of year
Materials, stores and fuel	7	,949	14,984	-2,063	17,400	-2,169	61,202
	5	,314	5,624	433	4,139	1,818	32,729
Vork in progress							
Nork in progress Goods on hand for sale	13-2001 (0.01-13-0) 1	,582	5,538	3,161	10,063	5,024	39,712

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

P	1	١.	2	a	1
	6	h	-	9	

	£ thousand
1976	1977
Jr (p) while	retricteries internet and state
1,775	2,512
362	304
88	335
2,015	2,505
531	697
13,334	17,544
791	769
16,076	21,064
	R THE COL

TABLE 4

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

		- 12	
100	100	- 2	
Δ.	204	- 18	

Size group	Estab- lish-	Enter- prises	Employme	nt		Wages and sa	laries (f)		
(b)	ments	(c)							
			Total (d)	Opera- tives	Others (e)	Operatives		Others (e)	
		945			Eta	Total	per head	Total	per head
27. 282	Number	Number	Number	Number	Number	£ thousand	£	£ thousand	£
1-10	228	216	1,183)						
11—19	75	66	1,098)	6,625	2,095	18,694	2,822	7,665	0.050
20—49	72	68	2,446)	0,020	2,095	10,094	2,022	7,005	3,659
50-99	61	49	4,311)						
100–199	33	28	4,446	3,415	1,023	9,711	2,844	3,576	3,496
200–299	17	12	4,069	3,108	961	9,816	3,158	3,446	3,586
300-399	6	4	1,934	1,538	396	5,292	3,441	1,598	4,035
400-499	4	4	1,706	1,298	408	4,977	3,834	1,974	4,838
500-749	9	8	4,961	3,622	1,339	12,260	3,385	4,964	3,707
750–999	7	7	5,927	4,601	1,326	17,332	3,767	6,327	4,771
,000 and over	4	3	6,017	4,545	1,472	15,358	3,379	5,703	3,874

Total	516	406	38,098	28,752	9,020	93,440	3,250 35,252	3,908
				0101				

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)

(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.

Total sales and work done (g)	Gross out	tput	Net output		Gross value added at factor cost	added at		Total stocks and work in progress at end of year
n Settos con settres no	eroda va Beccor Mologra		Total	per head	Total	per head		
£ thousand	£ thousar	nd	£ thousand	£ no soco sec besinti moloced M	£ thousand	£	£ thousand	£ thousand
185,302	186,686		57,909	6,407	(j)	(j)	3,631	28,590
94,415	94,864		27,964	6,290	74,408(j)	5,518(j)	1,209	14,220
92,568	93,674		29,623	7,280	25,962	6,380	1,504	14,669
43,915	43,596		13,782	7,126	11,692	6,046	764	6,464
31,598	31,705		9,840	5,768	8,334	4,885	925	5,615
101,1 43	102,189		28,511	5,747	24,038	4,845	2,550	17,271
45,595	146,784		41,687	7,033	35,096	5,921	5,723	27,678
29,270	131,150		41,165	6,841	35,009	5,818	4,758	19,136

(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 £19,847 thousand. The remuneration of outworkers on returns received was £21 thousand.

(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.

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

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

(j)

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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	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 cost in the region	
analisen i	Thousands	per cent of United Kingdom	£ thousand	per cent of United Kingdom	£ thousand	£ thousand	percentage	onesocia a
Standard regions of England								
North	2.2	5.6	705	3.4	14,103	12,400	76.2	
Yorkshire and Humberside	8.0	21.1	5,231	24.8	56,675	49,322	82.0	
East Midlands	2.3	6.0	1,074	5.1	15,988	14,219	90.5	
East Anglia	0.5	1.2	192	0.9	3,207	2,809	79.6	
South East	6.4	16.8	4,066	19.3	45,330	37,252	68.2	
South West	0.4	1.0	154	0.7	2,560	2,168	82.4	
West Midlands	4.9	13.0	2,536	12.0	31,499	27,107	47.7	
North West	7.2	18.8	4,478	21.3	45,633	39,578	67.1	0.41,110
	1000	128.6	35,0,95	CONTRACTOR OF STREET	183			
England	31.9	83.6	18,437	87.5	214,994	184,853		
Wales	2.2	5.7	1,204	5.7	13,722	11,559	48.3	
Scotland	4.0	10.4	1,408	6.7	21,547	17,984	56.3	
Great Britain	38.0	99.8	21,049	99.9	250,264	214,396		
Northern Ireland	0.1	0.2	15	0.1	219	143	24.3	
United Kingdom	38.1	100.0	21,064	100.0	250,483	214,539		

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)

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TABLE 6

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

Accourt	ting year ended	Percentage of total	returns received
-	21 803	per cent	
1977	April (a)	5.0	
	May	0.6	
	June	4.4	
	July	4.4	
	August	5.6	
	September	4.4	
	October	5.0	
	November	1.2	
	December	50.3	isolinaia ba
1978	January	1.9	
	February	0.6	
	March (b)	16.8	

From 6th April. (a)

(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
	per cent	per cent
Male	78	1
Female	16	5

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

-	
erce	ntage of total number employed
per ce	ent Dest des results of
2.2	
0.1	
6.2	
9.8	
2.8	
7.3	
4.8	
0.4	
6.6	
7.8	
0.1	
1.9	A See and esseries del administration, techni antifores
	All employees
	per cent
	79
	21
	Source: Department of Employment

TABLE 8

Operating ratios, 1977

All United Kingdom establishments classified to the industry (a)

	Unit	1977	and the second second
	£	21,803	
Gross output per head	70.90 -941	21,000	
	£	6,575	
Net output per head	2.0	0,575	
Gross value added per head	f	5,631	
	content president & thereaster	5,051	
Gross value added as a percentage of gross output	%	26	
	18.8 18.8	20	
Ratio of gross output to stocks		6.2	
		0.2	
Vages and salaries as a percentage of gross value added	%	60	
Ratio of operatives to administrative, technical and clerical			
mployees		3.2	
Vages and salaries per operative	£	3,250	
Vages and salaries per administrative, technical and clerical mployee	f	3,908	
	15.252	299,019	
let capital expenditure per head	£	553	
Net capital expenditure as a percentage of gross value added	%	10	

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

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

GENERAL INFORMATION

Changes made for 1977

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

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

specific changes are explained in the introductions to the industry eports 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 formation 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 metimes asked to give permission for its publication. In the majority of cases permission was given. When it was refused and where contributors were not approached the figure has been uppressed, either by combining it with other figures, or as in the egional tables, by omitting the figure altogether.

vmbols used

he following symbols are used throughout the PA series of usiness 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.

revised

Rounding of figures

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

ndustrial classification

he United Kingdom Standard Industrial Classification (SIC) was irst issued in 1948 and was subsequently revised in 1958 and 1968. It exists to promote uniformity and comparability in the official statistics of the United Kingdom. The general principles 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 rganisation and structure of industry and trade as it exists in the Inited Kingdom. The SIC is a classification by activity and is ot a commodity classification. However, an index of all commodity leadings for which sales data are provided in the Quarterly Business Monitors, is published in Business Monitor PQ 1000.

tatistical units

he statistical unit for the purpose of the Census is the establishment hich is defined in the SIC as the smallest unit which can provide the information normally required for an economic census, for example, employment, expenses, turnover, capital formation. Usually the principal activities carried on in an establishment fall within a single heading of the classification (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

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

all other employees (operatives) (b)

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 eq 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

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 navable to transport firms or credited to the firm's own transport department for delivery of materials are excluded, as are all nurchases 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' missions 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

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

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 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.

having been subjected to any manufacturing process by the seller.

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

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