

BUSINESS MONITORS

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PA247



BUSINESS MONITOR A publication of the Government Statistical Service

Glass and glassware

1989

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Report on the **Census of Production**

Hand tools and finished metal goods

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of the Exchequer of the Statistics of Trade Act 1947

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London: Her Majesty's Stationery Office

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PA247 GLASS AND GLASSWARE

The information in this report relates to businesses classified to the Glass and glassware industry, Group 247 in the Standard Industrial Classification Revised 1980. The industry Group covers the following Activity Headings:-

2471 Flat glass

1. Flat glass - not further worked

Manufacture of flat glass not further worked other than by surface grinding or polishing. 2. Flat glass - further worked

Manufacture of flat glass cut to shape and otherwise worked, including the manufacture of glass mirrors and multiple insulating glass. The cutting of glass to size in the course of distribution is classified to Group 613.

2478 Glass containers

Manufacture of glass bottles and jars for all purposes, including tubular glass containers and also glass stoppers.

2479 Other glass products

1. Domestic and ornamental glassware Manufacture of glassware for ornamental, table and culinary purposes.

2. Glass envelopes and illuminating glassware

Manufacture of glass envelopes including bulbs and tubes and their parts, for electric lamps, tubes and valves. Manufacture of lighting, illuminating and signalling glassware. The manufacture of complete electric lamps and valves is classified to Groups 347 and 345 respectively.

3. Glass tubing and scientific glassware

Manufacture of glass in bars, tubes and rods for further processing and laboratory, hygienic and pharmaceutical glassware. Glass thermometers and similar measuring instruments are classified to Group 371. 4. Glass fibre and glass fibre products

Manufacture of glass fibre, including roving, wool and filament, and articles made therefrom. Woven glass fibre fabrics are classified to Group 432, complete glass fibre boats to Group 361, glass fibre reinforced plastics products to Group 438 and glass fibre reinforced cement, plaster, etc to Group 243.

5. Other glass products

Manufacture of optical glass, vacuum flasks (complete and inners), glass insulators and insulating fittings, glass bricks and tiles, glass beads, mosaic cubes and fancy articles of glass and all other glass products. Glass cutting, decorating, engraving, polishing, staining, etc. of customers' material. The grinding of optical glass and lenses is excluded and classified to Group 373.

For a full description of the 1980 classification see Standard industrial Classification Revised 1980, obtainable from Her Majesty's Stationery Office, price £4.25.

In interpreting the data in the tables it is essential to bear in mind the notes and definitions which commence on page 5.

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EXPLANATORY NOTES AND DEFINITIONS INTRODUCTION

1. These notes give basic information to help with the interpretation of tables in this Industry Report. More general information about the Census is given in a separate Business Monitor - Report on the Census of Production, Introductory Notes (PA 1001).

2. Since 1980. Censuses have been conducted on the Standard Industrial Classification Revised 1980 (SIC(80)). The Standard Industrial Classification exists to promote uniformity and comparability in the official statistics of the United Kingdom. The SIC(80) is the result of an attempt to align the United Kingdom classification with the General Industrial Classification of Economic Activities within the European Communities (NACE). It is based on activity rather than commodities produced. A full description of SIC(80) is given in Standard Industrial Classification Revised 1980, obtainable from Her Majesty's Stationery Office, price £4.25.

REPORTING UNIT

3. From the earliest censuses of production until that for 1986 the reporting unit to the census was the establishment. This was defined as the smallest unit which could provide the full range of data required for an economic census. Establishments were asked, where possible, to exclude from their returns to the census any non-production activity.

4. In 1987, for a number of administrative and statistical reasons, a new system of company-based reporting was introduced. Under the new system the reporting unit to the census is, generally, the company, but there are some exceptions. These arise, for example, for large mixed activity companies which are asked to make separate returns to the census for each of their production activities on an establishment basis. Throughout this monitor this mixture of reporting units are referred to as "businesses". These businesses are no longer asked to exclude non-production activities.

5. In practice, since most businesses, both before and after the change, reported for the company as a whole, little difference to the main economic series has resulted from the change.

6. For most businesses, the returned data are appropriate to a single activity heading of SIC(80) and fall within a single geographical region. Where information covers a mixture of activities the business is classified according to the main activity. Where the business operates at a number of different addresses then, in order to enable regional data to be compiled, separate information on employment and capital expenditure is sought for each address.

THE REGISTER

7. A register of businesses throughout the United Kingdom is held on the BSO computer and provides the basis for BSO inquiries. For each business the register contains identification particulars and information about its eligibility for inclusion in an inquiry, its relationship with other businesses in common ownership, its industrial classification, the nationality of its parent and location indicators for regional analyses. Regional and size analyses of manufacturing units are published in Business Monitor PA1003 - Size analyses of United Kingdom businesses. During 1984, for production inquiries, the BSO moved to an updated register which makes fuller use of information obtained from HM Customs and Excise VAT records.

8. The Annual Census and other BSO inquiries provide a major source of information for checking the register and updating employment data. Where businesses do not make returns to these inquiries, estimates of employment are imputed from VAT turnover. For businesses which have an imputed employment of 11 or more, the estimates are checked by means of register proving forms. For businesses on the register making returns to the Quarterly Sales Inquiry, industrial classification is reviewed annually and is derived from an analysis of their commodity sales. For other businesses the classification is obtained either from VAT sources or from the register proving forms. Estimates of employment made by the BSO and the Department of Employment differ because they are derived from two separate inquiries and use different procedures and employment definitions.

COVERAGE excluded

ESTIMATION

DERTAKINGS

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 onthat 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 deducted from the total disclosed."

9. The Census covers United Kingdom businesses engaged in industrial production, ie mining and quarrying, manufacturing, construction, and gas, electricity and water supply industries (Divisions 1 to 5 of SIC(80)). Businesses in the Channel Islands and the Isle of Man are

10. Under the sampling arrangements agreed for the 1989 Census, forms were despatched to all establishments with 20 or more employed except for those in the 20 to 49 employment size band located in England where, in general a sample of 1 in 2 was taken. For industries where there were few units in the sample sizehand or where response in earlier years was poor, it was necessary to increase the sample. About 23,300 forms were despatched in the United Kingdom for the 1989 Census.

PERIOD COVERED

11. Businesses were asked to make returns for the calendar year 1989 but, where this was not possible, returns for business years ending between 6 April 1989 and 5 April 1990 were accepted. Returns covering fewer than twelve months were accepted for businesses which had started or ceased trading during the year.

12. All published Census results include estimates for non-responders. unsatisfactory returns and businesses not selected for the Census. Estimates are also made for items not covered in the shorter form sent to smaller businesses.

13. Within employment size groups in each industry, the "average per head" is calculated for each census variable by dividing the total returns value for each variable by the total returned employment. This value is multiplied by the employment thought to exist in each non-responding or non-selected business to yield an estimated value for that business. Estimates for items not collected on the shorter form are made in a similar way using returned employment.

14. The accuracy of the totals produced by adding together estimates and returned data is mainly dependent on the level of response. The extent to which businesses making satisfactory returns account for the total employment of any industry is shown as a percentage in footnote (a) to table 1. Thus the accuracy of the data published in an Industry Report where 95 per cent of the employment in the industry is covered by the returns made will, in general, be better than that in an Industry Report where the coverage is only 70 per cent.

15. Additionally, the extent to which individual headings in an Industry Report are related to employment should be taken into account in assessing the accuracy of estimated data. Thus an estimate of total earnings which bears a close relationship to total employment is likely to be more accurate than an estimate of capital expenditure where the relationship to employment is not so clearly marked.

SUPPRESSION OF INFORMATION RELATING TO INDIVIDUAL UN-

16. Sub-section 9(5)(b) of the Statistics of Trade Act 1947 states that:

"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 -

17. Figures which would be likely to disclose particulars relating to an individual undertaking are not published unless the contributor has given written consent for their publication.

CHANGES MADE FOR 1989

18. The 1989 Census was a benchmark one with a larger number of businesses receiving inquiry forms than had been the case with the previous 4 Censuses. Additional questions, for larger businesses only, asked for information on road transport costs and postal and telecommunications costs. The questions relating to computer costs included in the 1988 Census, were discontinued, but those relating to the cost of assets leased under the finance leasing arrangements were retained.

SYMBOLS USED

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

shown

disclosure

not available
- nil or less than half the final digits
* information suppressed to avoid

R revised

BOUNDING OF FIGURES

20. Figures in the tables have been rounded to the nearest final digit where necessary and, in these instances, the sum of the constituent items may not always agree exactly with the total shown.

EXPLANATION OF TERMS USED IN THE CENSUS REPORT

21. The notes and definitions given in this section are based on the instructions given to respondents as to the way in which returns were to be completed.

CAPITAL EXPENDITURE

22. This represents the value charged to capital account together with any other amounts which ranked as capital items for taxation purposes during the year to which each return related. From 1988 contributors were asked to include the value of assets acquired as lessees under finance leasing arrangements. The value is inclusive of any amounts received or expected to be received in grants and/or allowances from government sources, statutory bodies or local authorities. Capital expenditure during the year in respect of production units where production had not started before the end of the year and the value of CAPITAL GOODS PRODUCED FOR USE WITHIN THE BUSINESS by its own staff are included. The value of any assets acquired in taking over an existing business is excluded. The figures include non-deductible VAT but exclude deductible VAT. No allowance is made for depreciation, amortisation or obsolescence.

a. on LAND AND EXISTING BUILDINGS

23. This represents the value of freeholds and the value or premium payable or receivable for leaseholds acquired or disposed of. The figures for acquisitions include architects' and surveyors' fees, legal fees, stamp duties, agents' commissions and Land Registry fees. The figures for disposals are net of any such professional fees payable.

b. on NEW BUILDING WORK

24. This represents the value of new building and other constructional work such as the extension and reconstruction of old buildings, and the value of any newly constructed buildings acquired. The figures include architects' and surveyors' fees, legal fees, stamp duties, agents' commissions and Land Registry fees.

c. on PLANT AND MACHINERY, VEHICLES

25. This represents the value of new and second-hand plant and machinery and vehicles acquired or disposed of. The figures for acquisitions are net of any discounts received but include the cost of transport and installation and Customs and Excise car tax. The figures for disposals exclude amounts written off for capital assets which are scrapped.

CAPITAL GOODS PRODUCED FOR USE WITHIN THE BUSINESS 26. This represents the value of all work of a capital nature carried out during the year by the staff of, and for use in, the businesses covered by the returns

COST OF INDUSTRIAL SERVICES RECEIVED

27. This includes amounts payable to other organisations for work done on materials supplied by the business completing the return, for repairs and maintenance including those in respect of rented buildings, and for contracts which have been sublet. Direct payments to outworkers and amounts charged to capital account are excluded

COST OF NON-INDUSTRIAL SERVICES RECEIVED

28. Up to 1987 contributors were asked to include annual payments for assets acquired on a finance leasing basis. From 1988 they were asked to include the total value of such assets as capital expenditure during the year in which they were acquired. The cost of non-industrial services received includes commercial insurance premiums, bank charges and amounts payable to other organisations for the hire of vehicles, plant and machinery, for the rent of industrial and commercial buildings, for the services of accountants, auditors, agents, solicitors and surveyors other than in connection with the acquisition or disposal of capital assets, for postal and telecommunications services, for carriage by all forms of transport within the United Kingdom, for advertising, market research etc. for the right to use patents, trade marks, copyrights etc. for manufacturing and quarrying rights and technical know-how. Interest payments and amounts payable for sea and air freight on goods exported and on materials and fuel imported are excluded.

EMPLOYERS' NATIONAL INSURANCE CONTRIBUTIONS ETC.

29. This includes employers' national insurance contributions under the Social Security Pensions Act 1975, commercial insurance premiums for policies providing pensions, superannuation or other retirement benefits. sickness benefits, personal accident benefits, disability benefits or death benefits for employees, including former employees, or their dependants. Also included are contributions to canteens, social centres, children's and holiday homes etc. and the cost of supplying luncheon vouchers

EMPLOYMENT

30. This is the average number of ADMINISTRATIVE, TECHNICAL AND CLERICAL EMPLOYEES and OPERATIVES on the payroll and the number of WORKING PROPRIETORS employed during the year of return. Full-time and part-time employees are included but outworkers (ie people who worked in their own homes on materials supplied by the business) and casual employees such as jobbers are excluded. The average number of employees returned by individual businesses may have been calculated by, for example, the average of the number of employees on the payroll for the last week of each calendar month.

a. ADMINISTRATIVE, TECHNICAL AND CLERICAL EMPLOYEES

31. This includes directors who received a definite wage, salary or commission, managers, foremen, draughtsmen, editorial and advertising staff, travellers, all office employees and research and design employees except operatives.

b OPERATIVES

32. This includes all manual wage earners including operatives in power stations, operatives engaged in outside work of erecting, fitting etc, inspectors, maintenance workers and cleaners. Staff engaged in transport (including roundsmen) and employed in warehouses, stores, shops and canteen are included.

C WORKING PROPRIETORS

33. These are people who are regarded as self-employed for national insurance purposes, members of their families who worked in the business without receiving a definite wage or salary for at least half the normal working hours and directors who worked in the business but did

not receive a definite wage, salary or commission. Part-time Directors paid by fee only and directors who received a definite wage, salary or commission are excluded.

ENTERPRISE

34. This is defined as one or more businesses under common ownership or control.

GROSS OUTPUT

35. This is calculated by adjusting the value of TOTAL SALES AND WORK DONE by the changes during the year of WORK IN PROGRESS and GOODS ON HAND FOR SALE.

NON-INDUSTRIAL SERVICES RECEIVED, RATES and the cost of LICENSING OF MOTOR VEHICLES. This estimate of gross value added approaches more closely than NET OUTPUT the definition of net output or value added in national accounts statistics.

37. This is calculated by dividing GROSS VALUE ADDED AT FACTOR COST by total EMPLOYMENT.

NET CAPITAL EXPENDITURE

38. This is calculated by adding to the value of NEW BUILDING WORK acquisitions less disposals of LAND AND EXISTING BUILDINGS, VEHICLES and PLANT AND MACHINERY.

NETOUTPUT

PURCHASES OF MATERIALS FOR USE IN PRODUCTION AND PACKAGING AND FUEL and PURCHASES OF GOODS FOR MER-CHANTING OR FACTORING the COST OF INDUSTRIAL SERVICES RECEIVED and is adjusted for net duties and levies etc. where applicable. Purchases are adjusted for changes during the year of STOCKS OF MATERIALS, STORES AND FUEL.

MENT

NON-INDUSTRIAL SERVICES RENDERED

41. This includes amounts charged for the hire of vehicles, plant and machinery, for the rent of industrial and commercial buildings, for the right to use patents, trade marks, copyrights etc. for manufacturing and quarrying rights, for technical know-how and for the provision of transport to other organisations. It also includes revenue from staff facilities such as canteens.

OPERATING RATIOS

42. These ratios are calculated using industry totals, ie including the estimates for businesses not responding to or not selected for the Census. Respondents are able to compare the ratios for their own businesses with those for the industry as a whole

PURCHASES OF MATERIALS FOR USE IN PRODUCTION, AND PACKAGING AND FUEL. PURCHASES OF GOODS FOR MER-CHANTING OR FACTORING

43. These include the cost of raw materials, components, semi-manufactured goods and workshop materials, replacement parts and consumable tools not charged to capital account, packaging materials of all types, stationery and printed matter, fuel, electricity and water, materials of all types used by the business or given out to others, for the production of machinery or other capital items used in the business, and materials used when working on goods supplied by customers. The figures exclude VAT, purchases of machinery and plant, which are included in CAPITAL EXPENDITURE, and amounts payable to transport firms or credited to the business's own transport departments for delivery of materials. The figures are net of the value of goods or packaging materials returned to suppliers and trade discounts receivable. Materials purchased duty-paid are included at their duty-paid value less drawbacks, rebates etc. Imported goods are included at their full delivered

STOCKS

44. This represents amounts paid to outworkers, ie people who do work in their own homes generally on a piece-work basis, whose names appear on the payroll. Amounts paid to outworkers by subcontractors are included in the COST OF INDUSTRIAL SERVICES RECEIVED. Estimates are not made for remuneration of outworkers for businesses not completing Census returns.

GROSS VALUE ADDED AT FACTOR COST

36. This is calculated by deducting from NET OUTPUT the COST OF

GROSS VALUE ADDED AT FACTOR COST PER HEAD

39. This is calculated by deducting from GROSS OUTPUT the cost of

NET OUTPUT PER HEAD

40. This is calculated by dividing NET OUTPUT by total EMPLOY-

cost. If the transport from docks or airport of imported goods is not included in the cost of goods purchased, the cost is entered at cif plus duty, if applicable. Transfers of goods from other departments of the business not covered by the return are included at the estimated selling value recorded by the other departments.

REMUNERATION PAID TO OUTWORKERS

SALES OF GOODS PRODUCED

45. This represents sales of goods during the year, whether or not they were produced in the year of the return. It also includes sales of goods made from materials given out to other firms or to outworkers and sales of waste products and residues. The value of sales is the 'net selling value', ie the amount charged to customers whether values 'ex-works'or 'delivered' less VAT, trade discounts, agents' commissions etc and allowances on returned goods. Where products attract Excise duty, the value includes duty if the goods are sold 'duty-paid', but excludes it if they are sold in bond or exported. The cost of packaging materials less allowances for returnable containers is included. Sales of fixed assets and exceptional receipts are excluded. Transfers of goods produced by a business to departments not covered by the return (including other businesses in the same enterprise group) are treated as sales, valued as if sold to an independent purchaser.

46. This represents the value of goods on hand for sale, including goods for merchanting or factoring and of materials, stores and fuel held by businesses, whether held in the United Kingdom or abroad. Values include any duty payable but exclude VAT.

WAGES AND SALARIES

47. This represents amounts paid during the year to ADMINISTRA-TIVE, TECHNICAL AND CLERICAL EMPLOYEES and to OPERA-TIVES. All overtime payments, bonuses, commissions, holiday pay and redundancy payments, less any amounts reimbursed for this purpose from government sources, are included. No deduction is made for income tax or employees' national insurance contributions etc. Payments to WORKING PROPRIETORS, payments in kind, travelling expenses, lodging allowances etc, and EMPLOYERS' NATIONAL IN-SUBANCE CONTRIBUTIONS FTC are excluded

WORK DONE AND INDUSTRIAL SERVICES RENDERED

48. This includes amounts charged for work carried out including that done by sub-contractors on customers' materials and amounts charged for materials supplied in the course of such work. Industrial services such as repairs and maintenance, installation work and technical research and studies rendered to other organisations is also included. For certain industries this heading covers a wide variety of activities, for example, butter packed on commission in the food industries, making up of garments, fur dressing and textile finishing in the textile industries, and preparatory work on typesetting, block making and binding in the printing and publishing industries. Work done is an important part of the activities of the electrical machinery and heavy engineering industries. and includes erection, installation and repair and jobbing work.

WORK IN PROGRESS

49. This represents materials which have been partially processed and are awaiting further processing before being sold or transferred. Progress payments made to sub-contractors are excluded and progress payments received from other organisations are not deducted.

Output and costs, 1985-1989 All United Kingdom businesses classified to the industry (a)

of pools with other cepainteness of the	Unit	1985	1986	1987	1988	1989
Enterprises	 Number	703	740	799	747	764
Businesses	0.00 0.00 00 000000	788	823	851	792	805
Sales of goods produced	£ million	1,275.6	1,403.7	1,596.3	1,705.7	1,829.5
Nork done and industrial services endered		10.7	13.6	46.1	44.5	58.3
Capital goods produced for use within he business	icio antego	3.2	1.9	2.1	2.4	5.3
Non-industrial services rendered	to sales sales of a stress of the second stress of	2.9	2.9	2.8	2.4	2.0
oods merchanted or factored	n and a state	77.2	80.4	172.2	232.9	232.8
Total sales and work done	Laig with Million	1,369.6	1,502.6	1,819.4	1,987.9	2,127.8
ncrease during the year, work in rogress and goods on hand for sale	e veri , mase eterned goods og dink goo	15.8	-13.4	2.9	2.8	4.6
Gross output	n	1,385.4	1,489.2	1,822.3	1,990.7	2,132.4
Purchases of materials for use in pro- luction, packaging and fuel	a an n an	555.5	575.6	631.3	690.0	740.9
urchases of goods for merchanting or actoring		60.4	59.8	130.6	125.7	144.5
ncrease during the year, stocks of naterials, stores and fuel	ine mit anneer Annenner	-0.1	2.5	9.1	8.1	5.7
ost of industrial services eceived	n	24.4	24.9	41.5	55.0	52.0
Net output	н	745.0	831.4	1,028.0	1,128.2	1,200.7
otal employment	Thousand	38.9	39.2	42.1	43.6	44.7
Net output per head	£	19,137	21,193	24,391	25,874	26,886
ost of non-industrial services aceived						
Hire of vehicles, plant and machinery	£ million	9.8	8.5	17.7	14.9	18.1
Rents of industrial and commercial buildings	tres"an one	8.3	8.1	12.8	14.3	16.0
Commercial insurance premiums	Nerrigona sela	5.7	6.6	10.4	11.8	12.0
Bank charges	or in bought	1.1	1.2	1.5	1.8	1.9
Other non-industrial services	story "A consider	111.6	111.0	184.1	163.7	186.2(b
censing of motor vehicles		0.8	0.8	0.9	1.0	0.9
ates, excluding water rates	e grin esto sub , a	17.7	19.6	27.2	26.2	28.8
Gross value added at factor cost	teuk II. gridelidi	590.0	675.7	773.5	894.6	936.8
Gross value added at factor cost per head	£	15,155	17,223	18,352	20,517	20,976

(a) Satisfactory returns accounted for 87 per cent of employment within the industry in 1989.

(b) Includes the cost of transport of goods by road (within the UK) of £44.8 million and postal and telecommunication costs of £11.1 million. These were collected separately for 1989 but not for the other years shown in the table.

TABLE 2

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Capital expenditure, 1985-1989 (a) All United Kingdom businesses classified to the industry

Total sales Grosdo) zensli and work sutput duna	1985	1986	1987		1989	Total stores
Land and buildings						
New building work	1.9	2.5	4.0	12.0	20.4	
Land and existing buildings						
Acquisitions	3.4	1.4	*	10.9	22.8	
Disposals	1.0	0.6	Total *	7.9	7.4	
Net	4.3	3.4	9.5	15.0	35.8	
Plant and machinery						
Acquisitions	58.2	¥	*	112.1	161.7	
Disposals	1.6	*	*	3.1	12.4	
Net	56.6	44.6	82.3	108.9	149.3	
Vehicles						
Acquisitions	4.2	5.9	10.9	6.5	6.8	
Disposals	1.3	2.3	2.5	4.9	3.5	
Net	2.9	3.7	8.3	1.5	3.3	
Total net capital expenditure	63.8	51.6	100.1	125.5	188.4	
rotar net capital expenditure	05.0	51.0	100.1	123.3	100.4	

(a) From 1988 contributors were asked to include as capital expenditure the value of assets acquired under finance leasing arrangements. The total value of these assets is estimated to be £12.6 million for 1988 and £42.3 million for 1989.

TABLE 3

Stocks and work in progress, 1985-1989 All United Kingdom businesses classified to the industry

1985	1986	1987	1988	1989	Value at end of 1989
	-	Increase during	g year		
-0.1	2.5	9.1	8.1	5.7	110.1
1.4	-0.3	1.8	-1.4	3.1	27.4
14.4	-13.0		4.1	1.5	135.7
15.7	-10.8	12.0	10.9	10.3	273.2
	-0.1 1.4 14.4	-0.1 2.5 1.4 -0.3 14.4 -13.0	-0.1 2.5 9.1 1.4 -0.3 1.8 14.4 -13.0 1.1	Increase during year -0.1 2.5 9.1 8.1 1.4 -0.3 1.8 -1.4 14.4 -13.0 1.1 4.1	Increase during year -0.1 2.5 9.1 8.1 5.7 1.4 -0.3 1.8 -1.4 3.1 14.4 -13.0 1.1 4.1 1.5

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Employment, labour costs, output, net capital expenditure and stocks and work in progress by size of total employment, 1989

All United Kingdom businesses classified to the industry (a)

Size group	Busin- esses	Enter- prises	Employme	nt	2861	Wages and	salaries (c)		
Enserprises		(b)							
			Total	Opera- tives	Administr- ative,tech-	Operatives	16. A	Administra	itive, ind
			including working proprietors		nical and clerical			clerical	Lana ang Din Adjulsition
						Total	per head	Total	per head
	Number	Number	Thousand	Thousand	Thousand	£ million	f	£ million	f
1-9	502	493	1.3)						
10-19	112	111	1.6	6.2	2.0	54.9	8,812	27.0	13, 484
20-49	87	86	2.8)	0.2	2.0	04.0	0,012	27.0	10,404
50-99	40	40	2.9)						
100-199	22	22	3.0	2.2	0.8	19.9	9,141	10.2	13,011
200-299	11	11	2.6	2.2	0.4	18.7	8,677	7.1	15,773
300-399	10	9	3.4	2.5	0.9	33.5	13, 175	13.6	15,130
400-749	12	10	7.3	5.6	1.7	62.9	11,215	23.8	13,698
750-1499	5	me be 5	4.6	3.2	1.4	35.5	11, 197	18.4	12,946
1,500-Plus	4	4	15.2	9.9	5.3	127.6	12,891	75.1	14, 289

(a) Businesses employing fewer than 20 persons are not required to complete census returns. Because of this, data for these businesses should be regarded merely as the best estimates available and used with caution.

(b) The count of enterprises shown in each row represents the number of enterprises, irrespective of size, owning the businesses shown in each size group. Because an enterprise may own businesses in more than one size group, the sum of individual enterprise counts may exceed the total for the industry.

(c) The cost of employers' contributions to the national insurance, pensions and welfare schemes and the running costs of canteens are excluded from the table but were estimated for the industry at £64.4 million. The remuneration of outworkers on returns received - also excluded from the table - was £237 thousand.

(d) Net capital expenditure includes the value of assets acquired under finance leasing arrangements - see table 2.

(e) Gross value added data relate to businesses employing 1-199.

Total sales and work done	Gross output	Net output	ent	Nerca expen (b)	Gross value added at factor cost	First putput (c)	Net capital expenditure (d)	Total stock and work in progress at end of year
		Total	per head	-	Total			
£ million	£ million	£ million	- 8.3 <u>f</u>	- 12.9	C. m:101a.a.			
Yorkshire and	L mmon	I minon	L		£ million	£	£ million	
336.8	339.2	175.7	20,526		(e)	(e)	22.6 yraging	39.4
122.5	122.0	66.8	22,512		195.2(e)	16,828(e)	5.8	
118.7	119.2	76.4	29,370		62.7	24,085	11.3	9.0
198.2	202.1	116.0	33, 714		97.9	28,451	39.4	29.0
338.0	341.0	222.7	30,317		182.4	24,835	25.0	48.4
175.1	174.0	105.5	23,004		68.0	14,806	18.1	39.5
838.4	834.9	437.6	28,870		330.7	21,820	66.1	90.7
2,127.8	2,132.4	1,200.7	26,886		936.8	20,976	188.4	273.2
gash address Tedion was o	y as made by blained by sou	asyuming that	and output way	Arope Set for	rinnats to an addresses in	coloyment. An option of the second seco	Abota of Tugruo a	Ratio of gras

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Percentage analysis of twelve-month periods covered by returns received for the 1989 Census by number of returns and total employment

Accountin	g year ended		rcentage of to ceived	tal returns	Wages and p		ntage of to syment	otal zeluz istor
1989	April 6-30		3.9				2.2	done
	May		0.8				0.1	
	June		2.4				1.2	
	July		-				-	
	August		3.1				0.6	
	September		4.7				1.6	
	October		2.4				0.5	
	November		3.1				1.2	
	December		43.3				63.5	
1990	January ^{a 22}		2.4				0.2	
	February		5.5				1.8	
	1 March - 5 April		28.3				27.1	
208-200		1 280 68 9	I. 59	20/13/10	78.At	8.877.01	17.1	U. 899, 200
TABLE 6								

Operating ratios, 1985-1989

All United Kingdom businesses classified to the industry

and an	Unit	1985	1986	1987	1988	1989
Gross output per head	£	35,587	37,960	43,238	45,654	47,747
Net output per head	£	19,137	21, 193	24, 391	25,874	26,886
Gross value added per head	£	15,155	17,223	18,352	20,517	20,976
Gross value added as a percentage of pross output	%	43	45	42	45	44
atio of gross output to stocks		6.0	6.5	7.5	7.6	7.8
Vages and salaries as a percentage of ross value added	%.	59	54	55	54	56
atio of operatives to administrative, achnical and clerical employees		2.9	3 0	2.7	2.6	2.5
Vages and salaries per operative	£	8,561	8,750	9,467	10,434	11, 107
Vages and salaries per administrative, echnical and clerical employee	£	10,235	11,302	12, 116	13,280	13,961
Net capital expenditure per head (a)	£	1,639	1,316	2,375	2,877	4,219
let capital expenditure as a percentage f gross value added (a)	%	11	8	13	14	20

(a) From 1988 contributors were asked to include as capital expenditure the value of assets acquired under finance leasing arrangements - see Table 2.

TABLE 7

Regional distribution of employment, net capital expenditure, net output and gross value added at factor cost, 1989 All United Kingdom businesses classified to the industry

Area		Total employn	nent	Net capita expenditur	
		(a)		(b)	
NAS huilding work	63		8.872		
		Thousand	d per cent of	£ million	pe
			United Kingdom		U Ki
Standard regions of E	ngland				
North		2.8	6.3	12.9	
Yorkshire and					
Humberside		7.5	16.8	27.6	1
East Midlands		3.5	7.8	10.0	
East Anglia		0.9	2.0	1.6	
South East		6.7	15.1	18.8	1
South West		1.5	3.3	-0.2	-
West Midlands		6.2	13.9	9.8	
North West	5_4	9.3	20.9	78.5	4
England		38.4	86.1	159.1	8
Wales		*	¥0.5	*	
		3.4	7.5	16.3	
	8.5		19.9	bn	681
Great Britain		*	26,179	*	
Northern Ireland		*	*	*	
		alling to	eb. a. at is at	adata secol	1.
United Kingdom		44.7	100.0	188.4	10

Net output Gross value (c) added at factor cost (c) er cent £ per cent f per cent million of million of nited United United ingdom Kingdom Kingdom 6.8 63.0 5.2 52.7 5.6 14.7 206.9 17.2 159.8 17.1 50.9 5.3 67.9 5.7 5.4 0.9 18.3 1.5 13.1 1.4 10.0 149.3 12.4 103.6 11.1 -0.1 32.8 2.7 24.6 2.6 5.2 138.5 11.5 107.7 11.5 41.7 290.2 24.2 231.3 24.7 84.4 966.8 80.5 79.4 743.6 ¥ * De VION 8.7 116.0 9.7 100.1 10.7 ¥ baad ton to grup tat * a laintaubot * ¥ * 0.00 1,200.7 100.0 936.8 100.0

(a) Average number employed during the year, including full and part-time employees and working proprietors. (b) New building work plus acquisitions less disposals of land and existing buildings, vehicles and plant and machinery. The value also includes assets acquired under finance leasing arrangements - see Table 2.

(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 was treated similarly.

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Output and costs, 1989 All United Kingdom businesses classified to each Activity Heading within the industry

			industry	sified to the	resses clas	n busin	All United Kingdor
	Unit		2471		2478		2479
Enterprises(a)	Numbe	er	262		59		452
Businesses (0)	u d		272		63		470
Sales of goods produced	£ millio	on	798.3		441.1		590.1
Work done and industrial services rendered	of United Kingdom		55.2		-		3.0
Capital goods produced for use within the business	n, 7		3.8		0.7		anoiger br 0.8.13
Non-industrial services rendered	8 ¹ 9		8.8-		-		1.9
Goods merchanted or factored	п		185.1		5.9		41.7
Total sales and work done	14.7		1,042.5		447.7		637.6
Increase during the year, work in							
progress and goods on hand for sale	0.0		-2.5		3.2		3.9
Gross output	0.01		1,039.9		450.9		641.5
Purchases of materials for use in pro- duction, packaging and fuel	1.00-		381.6		156.4		202.9
Purchases of goods for merchanting or	5.2		115.5		5.4		23.6
factoring			8.05		5.4		tzeW dhold
Increase during the year, stocks of materials, stores and fuel	п		-0.4		4.1		2.0
Cost of industrial services			7.88				
received	* "		20.5		17.5		14.1
Net output	ς.Β		521.9		275.9		403.0
Total employment	Thousa	ind	19.9		8.5		16.2
Net output per head	£		26,179		32,358		24,875
Cost of non-industrial services received					t i s		
Hire of vehicles, plant and machinery	£ millio	on 1.897	10.7		1.7		moboni2 (5.7)
Rents of industrial and commercial buildings			9.7		3.6		2.7
Commercial insurance premiums	olqano omit-i		5.9		2.4		3.8
Bank charges	nibliud puidin Ieasing arra		1.0		0.1		0.7
Other non-industrial services			02.0		43.4		60.1
					0.1		0.1
Rates, excluding water rates	ница соберению н		14.6		6.9		osi te bebb 7.3
Gross value added at factor cost			396.4		217.7		322.7
Gross value added at factor cost					7		
per head	£		19,885		25,537		19,918

(a) The count of enterprises shown in each column represents the number of enterprises owning the businesses shown for each activity heading. Because an enterprise may own businesses in more than one activity heading, the sum of the enterprise counts may exceed the total for the industry.

TABLE 9

Capital expenditure, 1989 (a) All United Kingdom businesses classified to each Activity Heading within the industry

		2471	2478	2479
Land and buildings				
New building work		10.8	###U *	*
Land and existing bu	ildings			
Acquisitions		ecr.86.0	*	Net output per head
Disposals		388.83.7	*	Gross value added per heid
Net		13.1	12.5	to ops 10.3 o s as babbs ealey agod
Plant and machinery				
Acquisitions		0.01 73.1	37.3	51.3 ¹² of turtue tears to olteR
Disposals		11.4	0.4	Wages and sateries as a 60.0 mage of oross value added
Net		61.7	36.9	50.7
/ehicles				
Acquisitions	13,634	880 . 1 3. 2	0.4	Wagas and salaries per or 2.2 ive
Disposals		2.2	0.1	Wages and salaries par administrative, technical and clerical employee
Net		1.0	0.3	2.1
Total net capital e	xpenditure	75.7	49.6	(a) beet to get the point of the second s

(a) From 1988 contributors were asked to include as capital expenditure the value of assets acquired under finance leasing arrangements - see Table 2.

TABLE 10

Stocks and work in progress, 1989 All United Kingdom businesses classified to each Activity Heading within the industry

				£ million
	2471	2478	2479	
10a Increase during year				
Materials, stores and fuel	-0.4	4.1	2.0	
Work in progress	1.2	0.2	1.7	
Goods on hand for sale	-3.8	3.0	2.3	
Total	-2.9	7.3	6.0	
10b Value at end of year				
Materials, stores and fuel	55.0	18.9	36.2	
Work in progress	11.0	0.5	16.0	
Goods on hand for sale	38.4	54.3	43.1	
Total	104.3	73.6	95.3	

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Operating ratios, 1989

All United Kingdom businesses classified to each Activity Heading within the industry

nterprises(a)	Nation	262	5.8	and and buildings
	Unit	2471	2478	2479
Gross output per head	f	52,164	52,897	39,600
Net output per head	f	26,179	32,358	24, 875
Gross value added per head	£	19,885	25,537	19,918
Gross value added as a percentage of gross output	%	38	48	50
Ratio of gross output to stocks		10.0	6.1	6.7
Wages and salaries as a percentage of gross value added	%	60	56	52
Ratio of operatives to administrative, technical and clerical employees		2.0	4.0	2.8
Wages and salaries per operative	6.0 f	11,055	13,634	9,706
Wages and salaries per administrative, technical and clerical employee	£	13, 746	17,225	12,982
Net capital expenditure per head (a)	f	3,799	5,819	3,893
Net capital expenditure as a percentage of gross value added (a)	%	19	erunoneqxe 23	20
	70	13	17.5	20 11000 8881 mm3 (a

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(a) From 1988 contributors were asked to include as capital expenditure the value of assets acquired under finance leasing arrangements - see Table 2.

		·	
Work in progress			

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