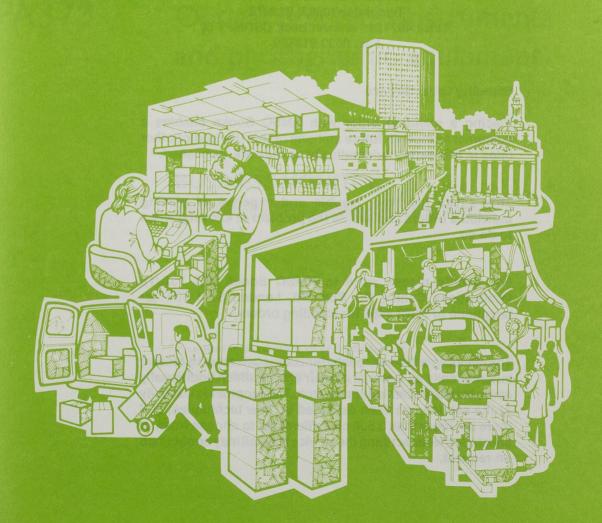


Business Monitor

1992 Report on the Census of Production

PA373

Optical precision instruments and photographic equipment



A publication of the Government Statistical Service

BUSINESS MONITORS

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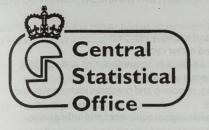
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BUSINESS MONITOR

A publication of the Government Statistical Service

Presented by the Chancellor of the Exchequer to Parliament in pursuance of the Statistics of Trade Act 1947 (10 & 11 Geo.6 Cha.39 sec 7)

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PA257	Pharmaceutical products	PA428	Soft drinks
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PA311	Foundries	PA434	Spinning and weaving of flax, hemp and ramie
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PA321	Agricultural machinery and tractors Metal-working machine tools and engineers' tools	PA442	Leathergoods
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PA323	Textile machinery Machinery for the food, chemical and related indus-	PA453	Clothing, hats and gloves (including fur goods)
PA324	Machinery for the lood, chemical and related indus-	PA455	Household textiles and other made-up textiles
	tries; process engineering contractors Mining machinery, construction and mechanical	PA461	Sawmilling, planing, etc. of wood
PA325		PA462	Manufacture of semi-finished wood products and
	handling equipment	THOL	further processing and treatment of wood
PA326	Mechanical power transmission equipment	PA463	Builders' carpentry and joinery
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PA329	Ordnance, small arms and ammunition	PA467	Wooden and upholstered furniture and shop and office
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PA353	Motor vehicle parts	PATOUZ	Summary Volume
PA361	Shipbuilding and repairing		

PA361 Shipbuilding and repairing

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PA373 OPTICAL PRECISION INSTRUMENTS AND PHOTOGRAPHIC EQUIPMENT

The information in this report relates to businesses classified to the Optical precision instruments and photographic equipment industry, Group 373 in the Standard Industrial Classification Revised 1980. The Industry Group covers the following Activity Headings -

3731 Spectacles and unmounted lenses Manufacture of spectacles and frames, lenses and other unmounted optically worked elements.

3732 Optical precision instruments

Manufacture of optical microscopes, telescopes, binoculars, surveying instruments, photogrammetric instruments (other than cameras), spectrographs, non-electric light measuring instruments and lasers. Ophthalmic instruments are classified to Group 372.

Photographic and cinematographic equipment 3733

Manufacture of still and cine cameras and projectors, including microfilm cameras and projectors. Photographic enlarging and reducing apparatus and mounted optically worked lenses, prisms, mirrors and other optical elements. Cinematographic sound and vision recording equipment is included, as are photocopying and document copying machines (including xerographic machines). Electrical photographic exposure meters are classified to Group 344.

In interpreting the data in the tables it is essential to bear in mind the notes and definitions which commence on page 4.

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INTRODUCTION

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 (PA1001).

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 HMSO, price £4.25.

In 1990, however, the first revision of NACE 3 was made by EC regulation. This regulation makes it necessary for the UK to introduce a new Standard Industrial Classification, SIC(92), based on NACE Rev 1. The regulation guarantees comparability between national and Community classifications and therefore between national and Community statistics. Full details of SIC(92) are given in 'Standard Industrial Classification 1992', obtainable from HMSO, price £17.50, reference ISBN 0 11 620551 2.

The first Census to be conducted on the basis of SIC(92) will be that for 1993. Business monitors published in respect of 1993 will contain data for that year only. However, a limited range of 1991 and 1992 data reworked to SIC(92) Section and Sub-Section level will be published as a supplement to the Census Summary Volume (PA1002).

REPORTING UNIT

4. 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.

In 1987, for a number of administrative and 5. 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.

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.

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.

EXPLANATORY NOTES AND DEFINITIONS THE REGISTER

8. A register of businesses throughout the United Kingdom is held on the CSO computer and provides the basis for CSO 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.

9. The Annual Census and other CSO 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 or Annual Sales Inquiries, 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 CSO and the Department of Employment differ because they are derived from two separate inquiries and use different procedures and employment definitions.

COVERAGE

The Census covers United Kingdom businesses 10. 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 excluded.

Under the sampling arrangements agreed for 11. the 1992 Census, forms were despatched to all businesses with 100 or more employed and, for most production industries, samples of 1 in 4 and 1 in 2 respectively being taken for businesses in the 20 to 49 and 50 to 99 employment size bands. It was necessary to increase the sample in those industries where there were few businesses in the sample size band or where response in earlier years was poor. About 15,700 forms were despatched in the United Kinadom for the 1992 Census.

PERIOD COVERED

12. Businesses were asked to make returns for the calendar year 1992 but, where this was not possible, returns for business years ending between 6 April 1992 and 5 April 1993 were accepted. Returns covering fewer than twelve months were accepted for businesses which had started or ceased trading during the year.

ESTIMATION

4

All published Census results include 13. 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.

Within employment size groups in each 14 industry, the "average per head" is calculated for each census variable by dividing the total returned 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.

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.

Additionally, the extent to which individual 16. 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 UNDERTAKINGS

Sub-section 9(5)(b) of the Statistics of 17. 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 -

> 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 deducted from the total disclosed."

18 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 1992

19. The 1992 census like that for 1991 was a slimline one. An additional question identifying those businesses with employees engaged in Research and Development work was included and the break down on capital and current costs associated with pollution prevention and solid waste management, introduced for the 1991 census, was retained. As part of the CSO's efforts to reduce the form filling burden on industry, the breakdown of questions on capital expenditure and stocks were excluded. Data for these variables in the 1992 results have been estimated from information collected in the CSO Quarterly Capital Expenditure and Stocks Inquiries.

SYMBOLS USED

21.

22. completed.

23.

24. 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.

25. 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.

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

- .. not available
- nil or less than half the final digit shown
- information suppressed to avoid disclosure
- R revised

ROUNDING OF FIGURES

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

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

CAPITAL EXPENDITURE

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 nondeductible VAT but exclude deductible VAT. No allowance is made for depreciation, amortisation or obsolescence.

on LAND AND EXISTING BUILDINGS a.

b. on NEW BUILDING WORK

c. ON PLANT AND MACHINERY, VEHICLES

This represents the value of new and secondhand 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

This represents the value of all work of a 27. 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

28. 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

Up to 1987 contributors were asked to include 29. 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 knowledge. 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

This includes employers' national insurance 30 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

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.

ADMINISTRATIVE, TECHNICAL AND CLERICAL EMPLOYEES

This includes directors who received a 32. definite wage, salary or commission, managers, foremen, draughtsmen, editorial and advertising staff, travellers, all office employees and research and design employees except operatives.

OPERATIVES

33. 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 canteens are included.

WORKING PROPRIETORS C

34. These are people who are regarded as selfemployed 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

This is defined as one or more businesses 35. under common ownership or control.

GROSS OUTPUT

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

GROSS VALUE ADDED AT FACTOR COST

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

GROSS VALUE ADDED AT FACTOR COST PER HEAD

This is calculated by dividing GROSS VALUE 38 ADDED AT FACTOR COST by total EMPLOYMENT.

NET CAPITAL EXPENDITURE

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.

NET OUTPUT

This is calculated by deducting from GROSS 40. OUTPUT the cost of PURCHASES OF MATERIALS FOR USE IN PRODUCTION AND PACKAGING AND FUEL and PURCHASES OF GOODS FOR MERCHANTING 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.

NET OUTPUT PER HEAD

6

41. This is calculated by dividing NET OUTPUT by total EMPLOYMENT.

NON-INDUSTRIAL SERVICES RENDERED

This includes amounts charged for the hire of 42. 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

These ratios are calculated using industry 43. 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 MERCHANTING OR FACTORING

These include the cost of raw materials, 44. 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 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

45. 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.

SALES OF GOODS PRODUCED

46 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 valued '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.

STOCKS

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

VAT.

48.

49.

abroad. Values include any duty payable but exclude

WAGES AND SALARIES

This represents amounts paid during the year to ADMINISTRATIVE, TECHNICAL AND CLERICAL EMPLOYEES and to OPERATIVES. 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 INSURANCE CONTRIBUTIONS ETC are excluded.

WORK DONE AND INDUSTRIAL SERVICES RENDERED

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

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, 1988-1992 All United Kingdom businesses classified to the industry (a)

TEORISON AND LEPTION EPPLITED	Unit	1988	1989	1990	1991	1992
	BTICK PARAN	ou pria la ranco			443	455
Enterprise groups	Number	467	481	433		
Businesses		492	505	454	456	470
Sales of goods produced	£ million	733. 8	749. 5	831.6	813.5	879.9
Nork done and industrial services rendered	s on sector	34. 7	27. 3	29. 5	30. 9	29.3
Capital goods produced for use within he business	н н	1. 0	0.3	3.0	2. 5	4.4
Non-industrial services rendered		18. 5	21.8	3.0	3. 0	3. 2
Goods merchanted or factored		103. 4	122. 1	149.6	137. 7	145.3
Total sales and work done	u	891.4	921. 0	1, 016. 6	987.6	1, 062. 1
Increase during the year, work in progress and goods on hand for sale		58. 9	12. 6	-52.6	36. 7	9.0
Gross output	н	950. 3	933. 6	964. 0	1, 024. 3	1, 071. 1
Purchases of materials for use in pro- duction, packaging and fuel	u –	385. 5	410. 7	396. 0	404. 9	476.4
Purchases of goods for merchanting or factoring	IJ	78. 1	97. 5	105. 3	91. 1	93. 5
ncrease during the year, stocks of materials, stores and fuel	n	16. 2	-8. 1	-11.6	1. 3	4. 5
Cost of industrial services received	u	18. 4	19. 2	24. 2	19.9	16.8
Net output	in an n and a f	484.6	398. 0	426. 9	509.8	488. 9
Total employment	Thousand	21.0	20. 5	19. 9	17.8	17. 1
Net output per head	£	23, 104	19, 385	21, 404	28, 646	28, 628
Cost of non-industrial services received						
Hire of vehicles, plant and machinery	£ million	7. 0	9. 1	8. 9	10. 4	8. 8
Rents of industrial and commercial buildings		6. 6	9. 3	9. 7	11.6	11.7
Commercial insurance premiums		4. 1	3. 9	4. 4	4. 1	4.4
Bank charges	п	0. 9	1. 2	1.0	0. 9	0.9
Other non-industrial services	н	54.0	59. 3	59. 0	58.9	68.4
Licensing of motor vehicles	н	0.3	0. 2	0. 2	0. 1	0.1
Rates, excluding water rates		5. 5	6. 3	5. 7	4.8	5. 1
Gross value added at factor cost		406. 2	308. 7	338. 2	418.9	389. 6
Gross value added at factor cost per head	£	19, 369	15, 032	16, 955	23, 541	22, 811

(a) Satisfactory returns accounted for 69 per cent of employment within the industry in 1992.

8

PA373 TABLE 2

Capital expenditure, 1988-1992 All United Kingdom businesses classified to the industry

and a second sec	171 2 4 1			
		1988	1989	
Land and building	gs			
New building w	ork	3. 7	7.3	
Land and existi	ng buildings			
Acquisitions		0.8	2.5	
Disposals		0.7	1.4	
Net		3. 8	8.4	
Plant and machin	nery			
Acquisitions		25. 5	24. 7	
Disposals		2.3	1. 0	
Net		23. 2	23. 7	
Vehicl es				
Acquisitions		4.3	3.7	
Disposals		2.0	1.5	
Net		2.3	2. 2	
Total net capi	tal expenditure	29. 3	34. 3	
515 08 J 8	9.F FT9	FF 2 35	8 1	N S

(a) See paragraph 19 of explanatory notes for changes in method introduced for the 1992 census.

TABLE 3

Stocks and work in progress, 1988-1992 All United Kingdom businesses classified to the industry

						£ million
	1988	1989	1990	1991	1992 (a)	Value at end of 1992
			Increase durin	ng year		
Materials, stores and fuel	16. 2	-8. 1	-11.6	1. 3	4. 5	75. 9
Work in progress	8.4	-7. 8	-21.3	-20. 6	0.3	46. 3
Goods on hand for sale	50.5	20. 4	-31.4	57. 3	8.6	243. 0
Total	75. 2	4. 5	-64. 2	38. 0	13. 4	365. 2

(a) See paragraph 19 of explanatory notes for changes in method introduced for the 1992 census.

		£r	nillion
1990	1991	1992(a)	Service screep
alget t		d)	
0.6	9. 0	9. 7	
1. 2	3. 3	0. 9	
1.9	4. 3	-	
-0. 1	8.0	10.6	
28. 2	26. 3	29. 9	
2. 0	1. 7	2.0	
26. 2	24. 6	27. 9	
4.4	3. 6	3. 7	
1. 2	e	0.8	
3. 2	2.4	2.9	
29. 3	35. 0	41. 4	

PA373

Employment, labour costs, output, net capital expenditure and stocks and work in progress by size of total employment, 1992

All United Kingdom businesses classified to the industry (a)

	Busin- E esses	groups	Employment			Wages and sa	laries (C)			
	•	(b)								
			Total including working proprietors	Opera- tives	Administr- ative,tech- nical and clerical	Operatives	Operatives		Administrative, technical and clerical	
			8 2 1			Total	per head	Total	per head	
								2.0	2414	
	Number	Number	Thousand	Thousand	Thousand	£ million	£	£ million	£	
1-9	280	280	0. 8)							
10-19	68	68	1. 0	3. 9	2. 3	38. 4	9, 923	38. 7	16, 959	
20-49	56	54	1. 7)							
50-99	40	39	2.8)	0.7	0. 6	7.3	10, 979	10.6	16, 781	
100-199	10	10	1.3	0.7	00.6	6.3	10, 371	5.8	17, 847	
200-299	4	4	0.9	0.6		7. 2	10, 590	17.4	20, 763	
300-399	4	4	1.5			15. 1	10, 045	12.6	18, 197	
400-749	4	3		1.5	0.7	35. 9	11, 673	36.3	20, 613	
750-Plus	4	4	4.8	3. 1	1.8	gnada tol salor	vnotensi			

18, 590 121.4 10, 595 6.5 110.2 17.1 10.4 470 455 Total

(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 enterprise groups shown in each row represents the number of enterprise groups, irrespective of size, owning the businesses shown in each size group. Because an enterprise group may own businesses in more than one size group, the sum of individual enterprise group 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 £28.6 million.

(d) Goss value added data relate to businesses employing 1-199.

277. 2 275. 2 144. 7 22,969 (d) (d) 7.9 63. 4 79. 6 78. 1 38. 0 29,283 140. 5(d) 18,487(d) 1.9 18. 4 46. 3 46. 3 23. 7 25,351 19. 2 20,487 1. 2 12. 9 102. 3 101. 7 59. 7 39,286 48. 4 31,840 2. 0 10. 8 107. 1 108. 7 67. 9 30,971 52. 3 23,893 7. 8 22. 8 449. 6 461. 0 154. 9 32,051 129. 2 26,718 20. 6 236. 9	Total sales and work done	Gross output	Net output	if.		Gross value added at factor cost	(c)	Net cap expend		Total stocks and work in progress at end of year
Total per head Total per head million £ million £ million £ million £ million £ million 277. 2 275. 2 144. 7 22. 969 (d) (d) 7.9 63. 4 79. 6 78. 1 38. 0 29. 283 140. 5(d) 18. 487(d) 1. 9 18. 4 46. 3 46. 3 23. 7 25. 351 19. 2 20, 487 1. 2 12. 9 102. 3 101. 7 59. 7 39. 286 48. 4 31. 840 2.0 10. 8 107. 1 108. 7 67. 9 30. 971 52. 3 23. 893 7. 8 22. 8 449. 6 461. 0 154. 9 32. 051 129. 2 26. 718 20. 6 236. 9										
million £ million £ million £ £ million £ million £ million 277. 2 275. 2 144. 7 22,969 (d) (d) 7. 9 63. 4 79. 6 78. 1 38. 0 29, 283 140. 5(d) 18, 487(d) 1. 9 18. 4 46. 3 46. 3 23. 7 25, 351 19. 2 20, 487 1. 2 12. 9 102. 3 101. 7 59. 7 39, 286 48. 4 31, 840 2.0 10. 8 107. 1 108. 7 67. 9 30, 971 52. 3 23, 893 7. 8 22. 8 449. 6 461. 0 154. 9 32, 051 129. 2 26, 718 20. 6 236. 9 1.062. 1 1,071. 1 488. 9 28, 628 389. 6 22, 810 41. 4 365. 2			Total		•	Total				
277.2 275.2 144.7 22,969 (d) (d) 7.9 63.4 79.6 78.1 38.0 29,283 140.5(d) 18,487(d) 1.9 18.4 10.3 101.7 59.7 39,286 48.4 31,840 2.0 10.8 102.3 101.7 59.7 39,286 48.4 31,840 2.0 10.8 107.1 108.7 67.9 30,971 52.3 23,893 7.8 22.8 449.6 461.0 154.9 32,051 129.2 26,718 20.6 236.9		181	0.2	1. d.	0.3	0.1 2	15. 8	1,1	11. Jun	dopadi. ^{Na}
277.2 275.2 144.7 22,969 (d) (d) 7.9 63.4 79.6 78.1 38.0 29,283 140.5(d) 18,467(d) 1.9 18.4 46.3 46.3 23.7 25.351 19.2 20,487 1.2 12.9 102.3 101.7 59.7 39,286 48.4 31,840 2.0 10.8 107.1 108.7 67.9 30,971 52.3 23,893 7.8 22.8 449.6 461.0 154.9 32,051 129.2 26,718 20.6 236.9	£ million	£ million	£ million	£		£ million	£	£ millio	in	£ million
277. 2 275. 2 144. 7 22, 969 (d) (d) 7. 9 63. 4 79. 6 78. 1 38. 0 29, 283 140. 5(d) 18, 487(d) 1. 9 18. 4 46. 3 46. 3 23. 7 25, 351 19. 2 20, 487 1. 2 12. 9 102. 3 101. 7 59. 7 39, 286 48. 4 31, 840 2.0 10. 8 107. 1 108. 7 67. 9 30, 971 52. 3 23, 893 7. 8 22. 8 449. 6 461. 0 154. 9 32, 051 129. 2 26, 718 20. 6 236. 9										
79.6 78.1 38.0 29.283 140.5(d) 18.487(d) 1.9 18.4 46.3 46.3 23.7 25.351 19.2 20.487 1.2 12.9 102.3 101.7 59.7 39.286 48.4 31.840 2.0 10.8 107.1 108.7 67.9 30.971 52.3 23.893 7.8 22.8 449.6 461.0 154.9 32.051 129.2 26.718 20.6 236.9	277. 2		144. 7	22, 969			(d)	7.	9	63. 4
79.6 78.1 38.0 29.283 140.5(d) 18.487(d) 1.9 18.4 46.3 46.3 23.7 25.351 19.2 20.487 1.2 12.9 102.3 101.7 59.7 39.286 48.4 31.840 2.0 10.8 107.1 108.7 67.9 30.971 52.3 23.893 7.8 22.8 449.6 461.0 154.9 32.051 129.2 26.718 20.6 236.9										
102.3 101.7 59.7 39,286 48.4 31,840 2.0 10.8 107.1 108.7 67.9 30,971 52.3 23,893 7.8 22.8 449.6 461.0 154.9 32,051 129.2 26,718 20.6 236.9 1.062.1 1,071.1 488.9 28,628 389.6 22,810 41.4 365.2		78. 1	38. 0	29, 283		140. 5(d)		1.	9	18.4
107. 1 108. 7 67. 9 30, 971 52. 3 23, 893 7. 8 22. 8 449. 6 461. 0 154. 9 32, 051 129. 2 26, 718 20. 6 236. 9 1.062. 1 1, 071. 1 488. 9 28, 628 389. 6 22, 810 41. 4 365. 2	46.3	46.3	23. 7	25, 351		19. 2	20, 487	1.	2	12.9
449.6 461.0 154.9 32,051 129.2 26,718 20.6 236.9 1.062.1 1,071.1 458.9 28,628 389.6 22,810 41.4 365.2	102. 3	101. 7	59. 7	39, 286		48. 4	31, 840	2.	0	10. 8
1 <u>.062.1 1,071.1 488.9 28,628 389.6 22,810 41.4 365.2</u>	107. 1	108. 7	67.9	30, 971		52. 3	23, 893	7.	8	22.8
1.062.1 1,071.1 488.9 28,628 389.6 22,810 41.4 365.2	449.6	461.0	154. 9	32, 051		129. 2	26, 718	20.	6	236. 9
1. 062. 1 1, 071. 1 488. 9 28, 628 389. 6 22, 810 41. 4 365. 2										
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1, 062. 1 1, 071. 1 488. 9 28, 628 389. 6 22, 810 41. 4 365. 2										
1, 062. 1 1, 071. 1 488. 9 28, 628 389. 6 22, 810 41. 4 365. 2										
1, 062. 1 1, 071. 1 488. 9 28, 628 389. 6 22, 810 41. 4 365. 2										
<u>1, 062. 1 1, 071. 1 488. 9 28, 628 389. 6 22, 810 41. 4 365. 2</u>										
1, 062. 1 1, 071. 1 488. 9 28, 628 389. 6 22, 810 41. 4 365. 2										
2 1000 1000 0000										
	1, 062. 1	1, 071. 1	488. 9	28, 628		389. 6	22, 810	41.	4	365. 2
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PA373

Percentage analysis of twelve-month periods covered by returns received for the 1992 Census by number of returns and total employment

Accounting year end	ed		Perce recei	entage of total ved	returns	Percentage of total employment				
1992 April 6-30			4.6		output	4. 6	ins work			
May	, .			1.5			0.3			
June				3. 1			0.4			
July				3. 1			1. 1			
August				6. 2			2.9			
Septemb	er			6. 2			2.3			
October				3. 1			18. 1			
Novemb	er			6. 2			7.7			
Decembe	er			38. 5			38. 9			
1993 January				3. 1			1.0			
February	,			1.5			0.3			
1 March	- 5 April			23. 1			22. 5			
	. Mary	1.10	mena 27	inia hil	lisk as	Tigh BR. 9	0.079 p. At. 10.6	1.05		
- The go get	14 S E		tes 325							

TABLE 6

Operating ratios, 1988-1992

All United Kingdom businesses classified to the industry

	Unit	1988	1989	1990	1991	199
			45 400	48, 329	57, 560	62, 718
Gross output per head	£	45, 312	45, 469			
let output per head	£	23, 104	19, 385	21, 404	28, 646	28, 62
Gross value added per head	£	19, 369	15, 032	16, 955	23, 541	22, 81
cross value added as a percentage of ross output	%	43	33	35	41	3
atio of gross output to stocks		2.8	2. 7	3. 2	3. 2	2.
Vages and salaries as a percentage of ross value added	%	54	77	75	58	5
atio of operatives to administrative, echnical and clerical employees		1.8	1.4	1. 3	1.5	1.
Vages and salaries per operative	£	8, 893	9, 114	9, 398	10, 118	10, 59
Nages and salaries per administrative, echnical and clerical employee	£	13, 453	15, 150	17, 215	18, 958	18, 59
Net capital expenditure per head	£	1, 398	1,670	1, 467	1, 965	2, 42
Net capital expenditure as a percentage of gross value added	%	7	11	9	8	1

TABLE 7

PA373

In I was physically and a start of the start

Regional distribution of employment, net capital expenditure, net output and gross value added at factor cost, 1992 All United Kingdom businesses classified to the industry

Ąrea	e	otal employn a)	nent	Net cap expend (b)		Net outj (c)	put	Gross v added a factor c (c)	t
a and and and existing buildings grandmans	т т та. с	housan	d per cent of United Kingdom	£ million	per cent of United Kingdom	£ million	per cent of United Kingdom	£ million	per cent of United Kingdon
Standard regions of England			Ū		<u>j</u>		nkitev itau u		geen
North		0. 2	1.4	0.3	0.6	6.0	1. 2	4. 9	1.3
Yorkshire and Humberside		0.4	2. 2	0. 5	1. 1	8.0	1.6	6. 2	1.6
East Midlands		0.3	1.8	0.3	0. 7	6.6	1.3	5.0	1.3
East Anglia		1.4	8.4	2.0	4.8	57. 1	11.7	44.4	11.4
South East		5.5	32.0	10.0	24. 2	147. 1	30. 1	111.8	28.7
South West		3. 1	18. 1	6.3	15. 1	65.0	13. 3	52.7	13. 5
West Midlands		2. 1	12. 4	4. 9	11.9	64. 1	13. 1	52. 1	13. 4
North West		0.6	3. 3	1. 1	2.6	13. 5	2.8	10.6	2. 7
ngland	and -	13.6	79.6	25.3	61. 1	367.2	75. 1	287.6	73.8
Vales		0.9	5.0	2.8	6. 7	27.5	5.6	23.8	6. 1
Scotland		2. 2	12.9	13. 0	31. 4	87. 5	17.9	72. 5	18.6
Great Britain	8 18 038 1	16. 7	97.5	41. 1	99. 2	482. 2	98. 6	383. 9	98.6
Northern Ireland		0.4	2. 5	0.3	0.8	6. 7	1.4	5.6	1.4
Jnited Kingdom		17. 1	100. 0	41. 4	100. 0	488. 9	100. 0	389. 6	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.

(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.

the parent and 19 of evolutions for electrucia in method introduced

too this 1050 contains

Output and costs, 1992 All United Kingdom businesses classified to each Activity Heading within the industry

		Unit		3731	3732		3733
202 28 0 28 0 28 0 28 0 28 0 28 0 28 0	1017	Number	ntont <mark>erre</mark> ortelane	218	111		130
Enterprise groups(a)		u .		225	114		131
Businesses		£ million		186. 0	177.0		516.8
Sales of goods produced		r minon		100.0			
Work done and industrial services rendered		"Contraction management		7. 2	14.6		7.5
Capital goods produced for use within the business		н		-	-		4.4
Non-industrial services rendered		"		0.3	0.4		2.5
Goods merchanted or factored				78.0	40. 7		26.6
Total sales and work done		н		271.6	232. 8		557.8
Increase during the year, work in					-1.8		13. 1
progress and goods on hand for sale		н		-2.3			570.9
Gross output		н.		269. 3	230. 9		570. 5
Purchases of materials for use in pro- duction, packaging and fuel				74. 4	71.3		330. 7
Purchases of goods for merchanting or factoring		н		53. 8	20. 2		19.6
Increase during the year, stocks of materials, stores and fuel		н		-0.5	-0.5		5. 5
Cost of industrial servicess received				2.8	5.0		9.0
Net output		н		137. 7	134. 0		217.1
Total employment		Thousand		6. 7	3.8		6.5
		£		20, 571	34, 850		33, 220
Net output per head		-					
Cost of non-industrial services received							
Hire of vehicles, plant and machinery		£ million		3. 2	3. 1		2.5
Rents of industrial and commercial				5.4	1.9		4.4
buildings		evolutas stavs			1.4		1.6
Commercial insurance premiums				1.3			0.4
Bank charges		н		0.3	0.2		28.4
Other non-industrial services		o atomizza as		21.4	18.7		0.1
Licensing of motor vehicles		н 11.000 на 11.000 на 11.000 на 11.000 на		a revingation version tes of per ourpu	emitse gyllegetime		benikidis asay nolean
Rates, excluding water rates		н		1.5	1.6		2.0
Gross value added at factor cost		п		104. 6	107. 2		177.8
Gross value added at factor cost per head		£		15, 623	27, 868	10, 4 8	27, 198

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

TABLE 9

PA373

Capital expenditure, 1992 (a) All United Kingdom businesses classified to each Activity Heading within the industry

		3731	3732	3733
Land and buildings				
New building work		- 3731	9. 2	0. 5
Land and existing bu	ildings			
Acquisitions		- 20,671	0. 9	-
Disposals		- 16,623	-	Gross value added per need
Net Plant and machinery		-	10. 1	0.5
Acquisitions		8. 0	7. 5	14. 4 2 of find to stone to other
Disposals		0. 5	1. 1	0. 4
Net		7. 5	6.4	14. 1
Vehicles				
Acquisitions		1.2	- 1	2.5
Disposals		0.4	-	0.5
Net		0.8	-	eevoloms feotivio bna tao moso 2. 1
Total net capital e	xpenditure	8. 3	16. 5	16. 6

(a) See paragraph 19 of explanatory for changes in method introduced for the 1992 census.

TABLE 10

Stocks and work in progress, 1992 (a) All United Kingdom businesses classified to each Activity Heading within the industry

				£ million
	3731	3732	3733	
10a Increase during year				
Materials, stores and fuel	-0. 5	-0.5	5. 5	
Work in progress	0. 1	-1.0	1. 3	
Goods on hand for sale	-2.4	-0. 8	11.8	
Total	-2. 8	-2.3	18.6	
10b Value at end of year				
Materials, stores and fuel	12. 4	14. 1	49.5	
Work in progress	6. 2	18. 0	22. 1	
Goods on hand for sale	31. 0	13. 6	198. 4	
Total	49.6	45. 7	270. 0	

^(a) See paragraph 19 of explanatory notes for changes in method introduced for the 1992 census.

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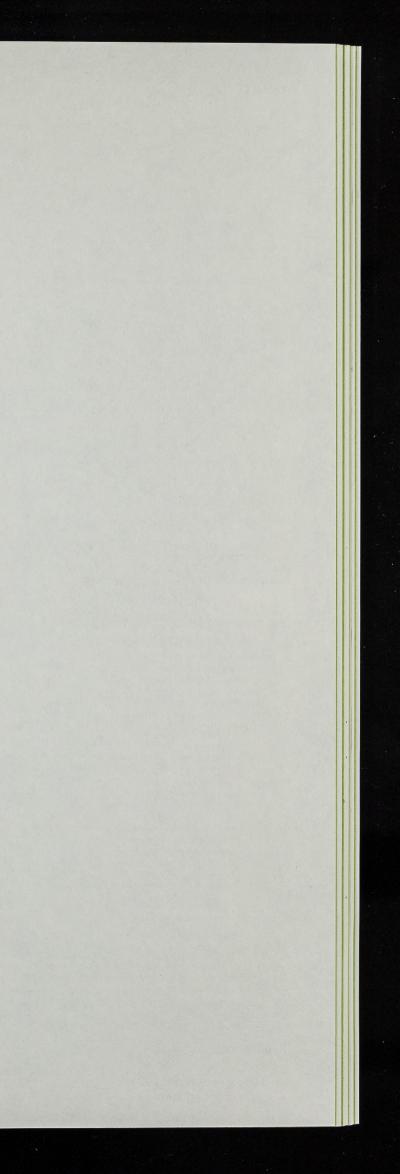
Operating ratios, 1992

(e) SEET anuticoporte h

operating ratios, roos		
All United Kingdom businesse	es classified to each Activity Heading within the industry	

	- texter to the	4-1-		a emblied bee bes
	Unit	3731	3732	3733
iross output per head	£	40, 214	60, 045	87, 345
let output per head	£	20, 571	34, 850	33, 220
Bross value added per head	£	15, 623	27, 868	27, 198
	1.01			
Fross value added as a percentage of ross output	%	39	46	31
latio of gross output to stocks		5. 4	5. 1	2. 1
Vages and salaries as a percentage of pross value added	%	67	62	53
Ratio of operatives to administrative, echnical and clerical employees		2. 9	0. 5	1. 9
Nages and salaries per operative	£	8, 681	14, 094	11, 837
Nages and salaries per administrative, echnical and clerical employee	£	16, 405	18, 920	19, 858
Net capital expenditure per head	£	1, 244	4, 279	2, 541
B BY				
Net capital expenditure as a percentage of gross value added	%	8	15	
Net capital expenditure as a percentage	%	8	15	Ę
Net capital expenditure as a percentage	%	8	15	5
Net capital expenditure as a percentage	%	8	15	5
Net capital expenditure as a percentage	%	22. 10	0.2 0.2 0.22 0.25 0.25 0.25 0.25 0.25 0.	
Net capital expenditure as a percentage of gross value added	%	22. 10	5.0 <u>An Ind Wontenedmine An 1</u> 1332 9 3 5 24, 250	2 10. 2 10.
Net capital expenditure as a percentage of gross value added		22. 10	0.2 0.2 0.22 0.25 0.25 0.25 0.25 0.25 0.	2 10. 2 10.
Net capital expenditure as a percentage of gross value added		and an Aniviry Heading	t di secolosatori (de ob 9.22 023 ,63 025 ,653 005 nessos disseïfico (T 10. Constant of the second o
Net capital expenditure as a percentage of gross value added		and an Aniviry Heading	di anglassi 1992 (a) dagrassi 1992 (a) dusmassas dissifika r r.c. garri gari ga	the second of th
Net capital expenditure as a percentage of gross value added		Andrea Andrea Andrea Andrea Andrea Andrea Andrea Andrea Andrea Andrea Andrea Andrea Andrea Andrea Andrea	di anglassi 1992 (a) dagrassi 1992 (a) dusmassas dissifika r r.c. garri gari ga	
Net capital expenditure as a percentage of gross value added		A GANA ACIVITY HEADING	Al analosative for an a solution data a solution data a solution for a solution a solution a soluti	the second of th
Net capital expenditure as a percentage of gross value added		200 A ANVIS H REAL	And events and the second seco	
Net capital expenditure as a percentage of gross value added	Antonio di Antonio Antonio di Antonio Antoni Antonio Antonio Antonio Antonio Antonio Antonio Antonio A	2000 ACTIVITY HEADING	et exclosestration for the second second second second descriptions of the second second second second second for the second sec	

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