

Central
Statistical
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PA316

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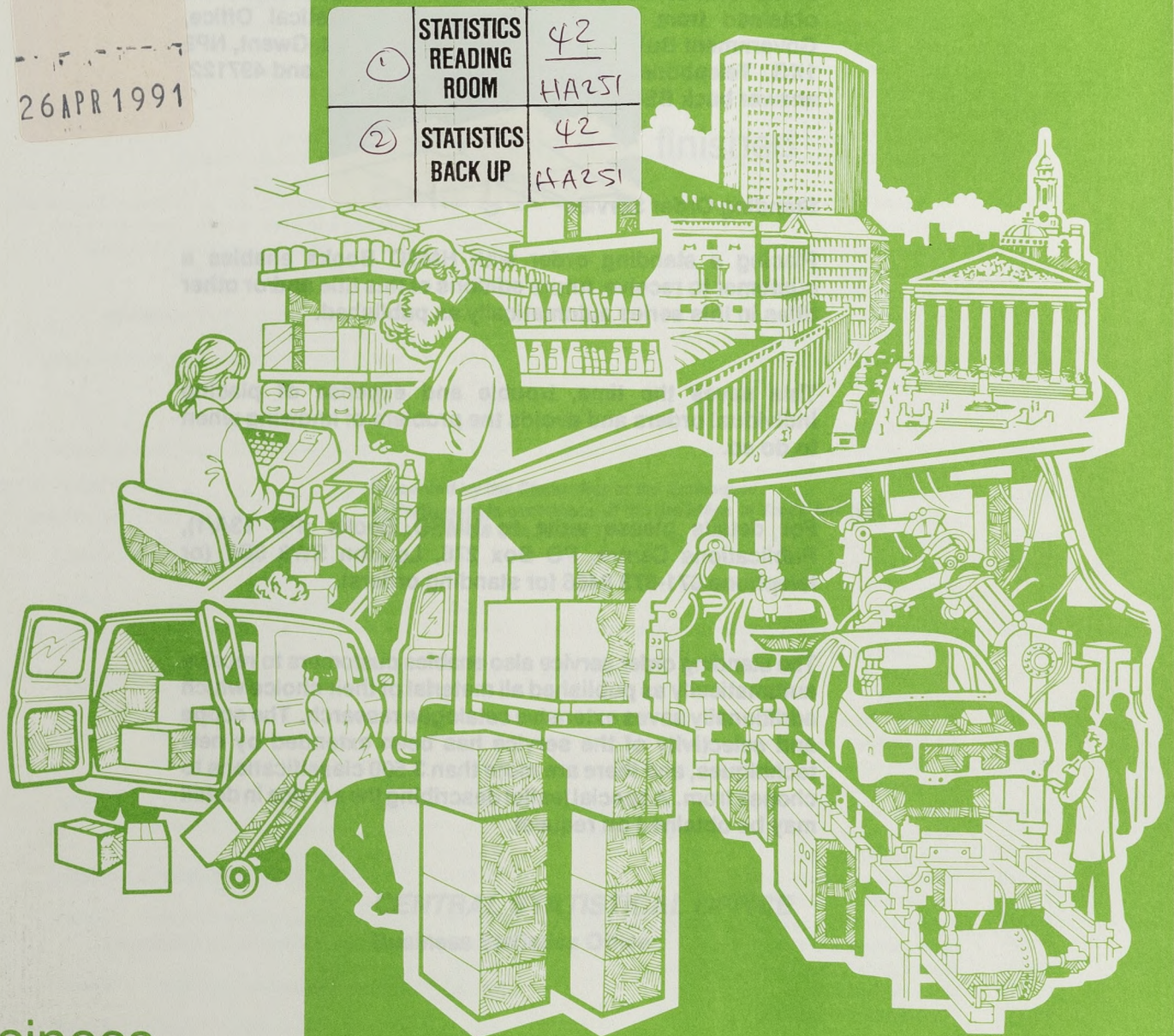
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26 APR 1991

Business Monitor

Report on the Census of Production

Hand tools and finished
metal goods



Business
Statistics
Office

A publication of the Government Statistical Service



BUSINESS MONITORS

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PA316

BUSINESS MONITOR

A publication of the Government Statistical Service

Report on the Census of Production 1989

Hand tools and finished metal goods

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

CENTRAL STATISTICAL OFFICE
Business Statistics Office

London: Her Majesty's Stationery Office

BUSINESS MONITORS MAKING UP THE COMPLETE CENSUS REPORT

PA1001	Introductory notes	PA362	Railway and tramway vehicles
PA111	Coal extraction and manufacture of solid fuels	PA363	Cycles and motor cycles
PA120	Coke ovens	PA364	Aerospace equipment manufacturing and repairing
PA130	Extraction of mineral oil and natural gas	PA365	Miscellaneous vehicles
PA140	Mineral oil processing	PA371	Measuring, checking and precision instruments and apparatus
PA161	Production and distribution of electricity	PA372	Medical and surgical equipment and orthopaedic appliances
PA162	Public gas supply	PA373	Optical precision instruments and photographic equipment
PA170	Water supply industry	PA374	Clocks, watches and other timing devices
PA221	Iron and steel industry	PA411	Organic oils and fats
PA222	Steel tubes	PA412	Slaughtering of animals and production of meat and by-products
PA223	Drawing, cold rolling and cold forming of steel	PA413	Preparation of milk and milk products
PA224	Non-ferrous metals industry	PA414	Processing of fruit and vegetables
PA231	Extraction of stone, clay, sand and gravel	PA415	Fish processing
PA239	Extraction of miscellaneous minerals (including salt)	PA416	Grain milling
PA241	Structural clay products	PA419	Bread, biscuits and flour confectionery
PA242	Cement, lime and plaster	PA420	Sugar and sugar by-products
PA243	Building products of concrete, cement or plaster	PA421	Ice-cream, cocoa, chocolate and sugar confectionery
PA244	Asbestos goods	PA422	Animal feeding stuffs
PA245	Working of stone and other non-metallic minerals	PA423	Starch and miscellaneous foods
PA246	Abrasive products	PA424	Spirit distilling and compounding
PA247	Glass and glassware	PA426	Wines, cider and perry
PA248	Refractory and ceramic goods	PA427	Brewing and malting
PA251	Basic industrial chemicals	PA428	Soft drinks
PA255	Paints, varnishes and printing ink	PA429	Tobacco industry
PA256	Specialised chemical products mainly for industrial and agricultural purposes	PA431	Woolen and worsted industry
PA257	Pharmaceutical products	PA432	Cotton and silk industries
PA258	Soap and toilet preparations	PA433	Throwing, texturing, etc. of continuous filament yarn
PA259	Specialised chemical products mainly for household and office use	PA434	Spinning and weaving of flax, hemp and ramie
PA260	Production of man-made fibres	PA435	Jute and polypropylene yarns and fabrics
PA311	Foundries	PA436	Hosiery and other knitted goods
PA312	Forging, pressing and stamping	PA437	Textile finishing
PA313	Bolts, nuts, etc.; springs; non-precision chains; metals treatment	PA438	Carpets and other textile floorcoverings
PA314	Metal doors, windows, etc.	PA439	Miscellaneous textiles
PA316	Hand tools and finished metal goods	PA441	Leather (tanning and dressing) and fellmongery
PA320	Industrial plant and steelwork	PA442	Leather goods
PA321	Agricultural machinery and tractors	PA451	Footwear
PA322	Metal-working machine tools and engineers' tools	PA453	Clothing, hats and gloves
PA323	Textile machinery	PA455	Household textiles and other made-up textiles
PA324	Machinery for the food, chemical and related industries; process engineering contractors	PA456	Fur goods
PA325	Mining machinery, construction and mechanical handling equipment	PA461	Sawmilling, planing, etc. of wood
PA326	Mechanical power transmission equipment	PA462	Manufacture of semi-finished wood products and further processing and treatment of wood
PA327	Machinery for printing, paper, wood, leather, rubber, glass and related industries: laundry and dry cleaning machinery	PA463	Builders' carpentry and joinery
PA328	Miscellaneous machinery and mechanical equipment	PA464	Wooden containers
PA329	Ordnance, small arms and ammunition	PA465	Miscellaneous wooden articles
PA330	Manufacture of office machinery and data processing equipment	PA466	Articles of cork and plaiting materials, brushes and brooms
PA341	Insulated wires and cables	PA467	Wooden and upholstered furniture and shop and office fittings
PA342	Basic electrical equipment	PA471	Pulp, paper and board
PA343	Electrical equipment for industrial use, and batteries and accumulators	PA472	Conversion of paper and board
PA344	Telecommunication equipment, electrical measuring equipment, electronic capital goods and passive electronic components	PA475	Printing and publishing
PA345	Miscellaneous electronic equipment	PA481	Rubber products
PA346	Domestic-type electric appliances	PA483	Processing of plastics
PA347	Electric lamps and other electric lighting equipment	PA491	Jewellery and coins
PA351	Motor vehicles and their engines	PA492	Musical instruments
PA352	Motor vehicle bodies, trailers and caravans	PA493	Photographic and cinematographic processing laboratories
PA353	Motor vehicle parts	PA494	Toys and sports goods
PA361	Shipbuilding and repairing	PA495	Miscellaneous manufacturing industries
		PA500	Construction
		PA1002	Summary volume

PA316 HAND TOOLS AND FINISHED METAL GOODSPA316

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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REPORTING UNIT

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

PA1001	Other	PA395	Machinery for the metal industry
PA1111	Coal	PA396	Machinery for the metal industry
PA1200	Collieries	PA397	Machinery for the metal industry
PA1300	Other	PA398	Machinery for the metal industry
PA1400	Mineral processing	PA399	Machinery for the metal industry
PA1500	Production and distribution of electricity	PA400	Machinery for the metal industry
PA1600	Public gas supply	PA401	Machinery for the metal industry
PA1700	Water supply industry	PA402	Machinery for the metal industry
PA2000	Iron and steel industry	PA403	Machinery for the metal industry
PA2100	Steel	PA404	Machinery for the metal industry
PA2200	Drawing, cold rolling and cold forming of steel	PA405	Machinery for the metal industry
PA2300	Non-ferrous metal industry	PA406	Machinery for the metal industry
PA2400	Extraction of iron ores, pig iron and cast iron	PA407	Machinery for the metal industry
PA2500	Extraction of miscellaneous minerals (including salt)	PA408	Machinery for the metal industry
PA2600	Structural clay products	PA409	Machinery for the metal industry
PA2700	Ceramic, brick and glass	PA410	Machinery for the metal industry
PA2800	Building products of concrete, asbestos or plastic	PA411	Machinery for the metal industry
PA2900	Asbestos goods	PA412	Machinery for the metal industry
PA3000	Woolen and worsted mill and other non-textile materials	PA413	Machinery for the metal industry
PA3100	Alumina products	PA414	Machinery for the metal industry
PA3200	Glass and glassware	PA415	Machinery for the metal industry
PA3300	Radiatory and ceramic goods	PA416	Machinery for the metal industry
PA3400	Basic industrial chemicals	PA417	Machinery for the metal industry
PA3500	Paints, varnishes and printing ink	PA418	Machinery for the metal industry
PA3600	Specialised chemical products mainly for industrial and agricultural purposes	PA419	Machinery for the metal industry
PA3700	Pharmaceutical products	PA420	Machinery for the metal industry
PA3800	Soap and toilet preparations	PA421	Machinery for the metal industry
PA3900	Specialised chemical products mainly for household and other use	PA422	Machinery for the metal industry
PA4000	Production of miscellaneous fibres	PA423	Machinery for the metal industry
PA4100	Textiles	PA424	Machinery for the metal industry
PA4200	Forging, pressing and stamping	PA425	Machinery for the metal industry
PA4300	Rolls, coils, etc., of iron, non-ferrous, aluminium, tinplate, lead, etc.	PA426	Machinery for the metal industry
PA4400	Sheet, coils, wire, etc., of iron, non-ferrous, aluminium, tinplate, lead, etc.	PA427	Machinery for the metal industry
PA4500	Hand tools and finished metal goods	PA428	Machinery for the metal industry
PA4600	Industrial plant and machinery	PA429	Machinery for the metal industry
PA4700	Agricultural machinery and tractors	PA430	Machinery for the metal industry
PA4800	Motor working machine tools and engineering tools	PA431	Machinery for the metal industry
PA4900	Textile machinery	PA432	Machinery for the metal industry
PA5000	Machinery for the food, chemical and other industries	PA433	Machinery for the metal industry
PA5100	Text, printing, engineering, electrical and other machinery	PA434	Machinery for the metal industry
PA5200	Mining machinery	PA435	Machinery for the metal industry
PA5300	Machinery for the metal industry	PA436	Machinery for the metal industry
PA5400	Machinery for the metal industry	PA437	Machinery for the metal industry
PA5500	Machinery for the metal industry	PA438	Machinery for the metal industry
PA5600	Machinery for the metal industry	PA439	Machinery for the metal industry
PA5700	Machinery for the metal industry	PA440	Machinery for the metal industry
PA5800	Machinery for the metal industry	PA441	Machinery for the metal industry
PA5900	Machinery for the metal industry	PA442	Machinery for the metal industry
PA6000	Machinery for the metal industry	PA443	Machinery for the metal industry
PA6100	Machinery for the metal industry	PA444	Machinery for the metal industry
PA6200	Machinery for the metal industry	PA445	Machinery for the metal industry
PA6300	Machinery for the metal industry	PA446	Machinery for the metal industry
PA6400	Machinery for the metal industry	PA447	Machinery for the metal industry
PA6500	Machinery for the metal industry	PA448	Machinery for the metal industry
PA6600	Machinery for the metal industry	PA449	Machinery for the metal industry
PA6700	Machinery for the metal industry	PA450	Machinery for the metal industry
PA6800	Machinery for the metal industry	PA451	Machinery for the metal industry
PA6900	Machinery for the metal industry	PA452	Machinery for the metal industry
PA7000	Machinery for the metal industry	PA453	Machinery for the metal industry
PA7100	Machinery for the metal industry	PA454	Machinery for the metal industry
PA7200	Machinery for the metal industry	PA455	Machinery for the metal industry
PA7300	Machinery for the metal industry	PA456	Machinery for the metal industry
PA7400	Machinery for the metal industry	PA457	Machinery for the metal industry
PA7500	Machinery for the metal industry	PA458	Machinery for the metal industry
PA7600	Machinery for the metal industry	PA459	Machinery for the metal industry
PA7700	Machinery for the metal industry	PA460	Machinery for the metal industry
PA7800	Machinery for the metal industry	PA461	Machinery for the metal industry
PA7900	Machinery for the metal industry	PA462	Machinery for the metal industry
PA8000	Machinery for the metal industry	PA463	Machinery for the metal industry
PA8100	Machinery for the metal industry	PA464	Machinery for the metal industry
PA8200	Machinery for the metal industry	PA465	Machinery for the metal industry
PA8300	Machinery for the metal industry	PA466	Machinery for the metal industry
PA8400	Machinery for the metal industry	PA467	Machinery for the metal industry
PA8500	Machinery for the metal industry	PA468	Machinery for the metal industry
PA8600	Machinery for the metal industry	PA469	Machinery for the metal industry
PA8700	Machinery for the metal industry	PA470	Machinery for the metal industry
PA8800	Machinery for the metal industry	PA471	Machinery for the metal industry
PA8900	Machinery for the metal industry	PA472	Machinery for the metal industry
PA9000	Machinery for the metal industry	PA473	Machinery for the metal industry
PA9100	Machinery for the metal industry	PA474	Machinery for the metal industry
PA9200	Machinery for the metal industry	PA475	Machinery for the metal industry
PA9300	Machinery for the metal industry	PA476	Machinery for the metal industry
PA9400	Machinery for the metal industry	PA477	Machinery for the metal industry
PA9500	Machinery for the metal industry	PA478	Machinery for the metal industry
PA9600	Machinery for the metal industry	PA479	Machinery for the metal industry
PA9700	Machinery for the metal industry	PA480	Machinery for the metal industry
PA9800	Machinery for the metal industry	PA481	Machinery for the metal industry
PA9900	Machinery for the metal industry	PA482	Machinery for the metal industry
PA0000	Machinery for the metal industry	PA483	Machinery for the metal industry

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

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 excluded.

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 sizeband 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.

ESTIMATION

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 UNDERTAKINGS

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 -

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."

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:

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

ROUNDING 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.

GROSS VALUE ADDED AT FACTOR COST

36. 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

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.

NET OUTPUT

39. This is calculated by deducting from GROSS 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

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

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 MERCHANTING 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

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

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.

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.

STOCKS

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 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

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.

TABLE 1

PA316

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

	Unit	1985	1986	1987	1988	1989
Enterprises	Number	8,172	8,343	8,447	8,549	8,925
Businesses	"	8,507	8,676	8,686	8,789	9,162
Sales of goods produced	£ million	4,989.0	5,408.3	5,767.9	6,491.1	6,989.8
Work done and industrial services rendered	"	128.1	146.5	97.2	137.5	236.0
Capital goods produced for use within the business	"	9.2	9.2	9.0	8.4	11.8
Non-industrial services rendered	"	16.3	15.7	15.3	18.4	29.1
Goods merchanted or factored	"	368.2	400.0	472.1	521.9	612.3
Total sales and work done	"	5,510.8	5,979.8	6,361.6	7,177.3	7,878.9
Increase during the year, work in progress and goods on hand for sale	"	28.7	8.0	49.5	63.5	68.2
Gross output	"	5,539.5	5,987.8	6,411.2	7,240.8	7,947.1
Purchases of materials for use in production, packaging and fuel	"	2,528.7	2,714.8	2,882.0	3,281.0	3,477.7
Purchases of goods for merchenting or factoring	"	274.5	300.3	365.7	399.3	454.2
Increase during the year, stocks of materials, stores and fuel	"	1.5	14.7	26.7	56.7	30.3
Cost of industrial services received	"	136.1	136.1	162.6	192.3	217.8
Net output	"	2,601.6	2,851.4	3,027.5	3,425.0	3,827.7
Total employment	Thousand	170.6	171.6	166.6	171.7	177.6
Net output per head	£	15,246	16,614	18,177	19,948	21,553
Cost of non-industrial services received						
Hire of vehicles, plant and machinery	£ million	28.1	36.2	37.2	38.6	48.0
Rents of industrial and commercial buildings	"	41.3	41.6	46.5	45.2	58.1
Commercial insurance premiums	"	23.9	28.5	33.6	38.4	43.5
Bank charges	"	3.9	4.3	4.7	5.2	6.4
Other non-industrial services	"	334.3	382.4	419.0	452.2	539.4(b)
Licensing of motor vehicles	"	2.3	2.6	2.4	2.2	2.2
Rates, excluding water rates	"	52.4	57.6	60.4	65.1	73.6
Gross value added at factor cost	"	2,115.3	2,298.3	2,423.8	2,778.0	3,056.4
Gross value added at factor cost per head	£	12,396	13,391	14,552	16,180	17,210

(a) Satisfactory returns accounted for 66 per cent of employment within the industry in 1989.

(b) Includes the cost of transport of goods by road (within the UK) of £119.9 million and postal and telecommunication costs of £38.5 million. These were collected separately for 1989 but not for the other years shown in the table.

TABLE 2

PA316

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

	1985	1986	1987	1988	1989
Land and buildings					
New building work	21.6	16.2	14.6	20.1	48.7
Land and existing buildings					
Acquisitions	10.2	13.2	13.6	25.6	34.4
Disposals	9.6	5.8	5.0	13.2	22.5
Net	22.2	23.6	23.2	32.4	60.6
Plant and machinery					
Acquisitions	150.9	166.4	203.0	257.3	308.4
Disposals	11.2	12.6	11.0	11.8	15.2
Net	139.7	153.8	192.0	245.5	293.2
Vehicles					
Acquisitions	34.4	35.1	36.7	44.6	53.4
Disposals	11.1	15.0	15.7	16.9	17.0
Net	23.4	20.1	21.0	27.6	36.5
Total net capital expenditure	185.3	197.5	236.2	305.6	390.3

(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 £24.1 million for 1988 and £25.9 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
£ million						
Increase during year						
Materials, stores and fuel	1.5	14.7	26.7	56.7	30.3	437.2
Work in progress	13.7	11.3	17.3	35.8	27.4	319.8
Goods on hand for sale	15.0	-3.3	32.3	27.7	40.8	438.9
Total	30.2	22.7	76.2	120.2	98.5	1,195.9

TABLE 4

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	Enterprises (b)		Employment			Wages and salaries (c)			
	Number	Number	Thousand	Thousand	Thousand	Operatives		Administrative, technical and clerical	
						Total including working proprietors	Operatives	Administrative, technical and clerical	Total
						£ million	£	£ million	£
1-9	6,410	6,385	18.2						
10-19	1,123	1,120	16.5						
20-49	972	964	31.3	63.7	21.6	569.4	8,944	292.3	13,519
50-99	343	332	23.4						
100-199	167	152	23.0	16.9	6.1	146.2	8,653	79.1	12,878
200-299	66	61	16.2	11.2	5.0	105.9	9,483	65.4	12,995
300-399	24	23	8.1	6.1	1.9	54.2	8,832	27.5	14,128
400-499	20	17	8.9	6.5	2.4	69.3	10,638	30.9	13,018
500-749	16	10	9.7	7.3	2.4	75.9	10,434	33.6	13,703
750-999	11	10	9.6	6.9	2.7	64.7	9,411	38.0	14,204
1,000-Plus	10	9	12.8	9.0	3.8	97.1	10,819	49.3	13,000
Total	9,162	8,925	177.6	127.5	46.0	1,182.7	9,276	616.1	13,383

(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 £232.7 million. The remuneration of outworkers on returns received - also excluded from the table - was £952 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.

TABLE 5

Percentage analysis of twelve-month periods covered by returns received for the 1988 Census

Accounting year ended	Total sales and work done	Gross output	Net output		Gross value added at factor cost		Net capital expenditure (d)	Total stocks and work in progress at end of year
			Total	per head	Total	per head		
1988	3,392.5	3,417.8	1,732.8	19,395	(e)	(e)	138.9	465.5
1987	1,009.6	1,018.4	481.6	20,902	1,763.4(e)	15,689(e)	41.7	157.6
1986	772.2	781.4	359.4	22,195	281.7	17,396	35.0	130.8
1985	370.8	378.4	185.1	22,906	144.5	17,880	11.0	65.2
1984	622.9	628.8	247.3	27,807	197.1	22,167	62.6	82.3
1983	551.7	557.3	227.8	23,421	181.7	18,685	29.3	96.9
1982	441.3	442.3	227.3	23,787	176.8	18,510	24.4	66.8
1981	718.1	722.9	366.4	28,702	311.1	24,368	47.3	130.7
Total	7,878.9	7,947.1	3,827.7	21,553	3,056.4	17,210	390.3	1,195.9

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

TABLE 5

PA316

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

Accounting year ended	Percentage of total returns received	Percentage of total employment
1989		
April 6-30	3.9	3.9
May	2.9	1.5
June	5.9	4.0
July	4.0	2.9
August	2.4	1.2
September	7.5	6.0
October	5.1	3.9
November	2.7	3.3
December	39.5	51.5
1990		
January	2.6	1.3
February	1.6	0.9
1 March - 5 April	21.8	19.6

TABLE 6

Operating ratios, 1985-1989

All United Kingdom businesses classified to the industry

	Unit	1985	1986	1987	1988	1989
Gross output per head	£	32,463	34,888	38,491	42,173	44,748
Net output per head	£	15,246	16,614	18,177	19,948	21,553
Gross value added per head	£	12,396	13,391	14,552	16,180	17,210
Gross value added as a percentage of gross output	%	38	38	38	38	39
Ratio of gross output to stocks		6.0	6.4	6.4	6.3	6.6
Wages and salaries as a percentage of gross value added	%	60	59	59	58	59
Ratio of operatives to administrative, technical and clerical employees		2.7	2.7	2.7	2.7	2.8
Wages and salaries per operative	£	6,823	7,289	7,806	8,501	9,276
Wages and salaries per administrative, technical and clerical employee	£	9,466	10,286	11,077	12,186	13,383
Net capital expenditure per head (a)	£	1,086	1,151	1,418	1,780	2,198
Net capital expenditure as a percentage of gross value added (a)	%	9	9	10	11	13

(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

PA316

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 employment (a)		Net capital expenditure (b)		Net output (c)		Gross value added at factor cost (c)	
	Thousand	per cent of United Kingdom	£ million	per cent of United Kingdom	£ million	per cent of United Kingdom	£ million	per cent of United Kingdom
Standard regions of England								
North	5.5	3.1	12.9	3.3	121.6	3.2	84.1	2.8
Yorkshire and Humberside	21.9	12.3	32.3	8.3	458.6	12.0	375.5	12.3
East Midlands	12.9	7.3	27.5	7.0	297.4	7.8	247.1	8.1
East Anglia	4.3	2.4	8.8	2.2	110.0	2.9	92.5	3.0
South East	37.5	21.1	66.1	16.9	849.2	22.2	665.4	21.8
South West	10.2	5.7	19.6	5.0	241.7	6.3	193.9	6.3
West Midlands	46.2	26.0	105.4	27.0	893.6	23.3	707.5	23.1
North West	19.9	11.2	60.6	15.5	416.8	10.9	334.8	11.0
England	158.2	89.1	333.1	85.4	3,389.0	88.5	2,700.8	88.4
Wales	9.3	5.2	36.9	9.5	234.9	6.1	191.1	6.3
Scotland	*	*	*	*	*	*	*	*
Great Britain	*	*	*	*	*	*	*	*
Northern Ireland	*	*	*	*	*	*	*	*
United Kingdom	177.6	100.0	390.3	100.0	3,827.7	100.0	3,056.4	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.

TABLE 8

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

	Unit	3161	3162	3163
Enterprises(a)	Number	354	91	125
Businesses	"	366	94	130
Sales of goods produced	£ million	252.5	141.6	118.6
Work done and industrial services rendered	"	0.6	*	*
Capital goods produced for use within the business	"	0.2	0.7	-
Non-industrial services rendered	"	0.2	*	*
Goods merchanted or factored	"	38.2	45.5	0.6
Total sales and work done	"	291.6	188.5	120.3
Increase during the year, work in progress and goods on hand for sale	"	4.6	3.8	2.0
Gross output	"	296.2	192.3	122.2
Purchases of materials for use in production, packaging and fuel	"	94.3	49.4	70.7
Purchases of goods for merchenting or factoring	"	21.3	28.8	0.5
Increase during the year, stocks of materials, stores and fuel	"	-0.2	1.4	-0.5
Cost of industrial services received	"	7.6	4.0	1.5
Net output	"	172.8	111.6	49.0
Total employment	Thousand	8.2	4.2	2.5
Net output per head	£	21,048	26,809	19,681
Cost of non-industrial services received				
Hire of vehicles, plant and machinery	£ million	2.1	0.5	0.4
Rents of industrial and commercial buildings	"	1.9	0.4	0.2
Commercial insurance premiums	"	2.1	0.8	0.6
Bank charges	"	0.4	0.2	0.1
Other non-industrial services	"	22.1	31.5	7.5
Licensing of motor vehicles	"	0.1	-	0.1
Rates, excluding water rates	"	3.4	1.7	0.8
Gross value added at factor cost	"	140.7	76.4	39.3
Gross value added at factor cost per head	£	17,142	18,361	15,777

(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.

PA316

	3164	3165	3166	3167	3169
	392	126	541	348	7,020
	421	130	554	349	7,118
	1,690.4	387.5	791.1	174.7	3,433.3
	3.0	2.6	17.4	4.3	206.9
	3.5	0.3	0.7	-	6.4
	8.9	0.1	2.1	0.7	16.4
	120.4	13.3	63.4	15.6	315.3
	1,826.3	404.0	874.7	195.3	3,978.3
	27.4	2.3	-0.8	4.2	24.8
	1,853.7	406.3	873.9	199.5	4,003.1
	1,033.1	189.5	383.8	83.4	1,573.5
	103.7	10.4	47.6	11.5	230.4
	13.0	0.6	2.8	0.3	12.9
	31.1	6.7	29.1	5.3	132.6
	698.9	200.2	416.2	99.6	2,079.5
	24.7	10.3	19.3	4.9	103.5
	28,331	19,476	21,522	20,116	20,091
	8.0	2.5	7.2	1.2	26.1
	8.2	2.0	10.3	0.4	34.6
	7.6	1.9	4.9	1.7	23.9
	0.6	0.3	0.6	0.4	3.8
	91.7	29.4	59.0	19.2	279.0
	0.2	0.1	0.6	0.1	1.0
	13.8	4.3	9.0	2.2	38.5
	568.8	159.7	324.5	74.5	1,672.5
	23,058	15,536	16,781	15,044	16,159

TABLE 9

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

	3161	3162	3163
Land and buildings			
New building work	0.7	0.1	0.1
Land and existing buildings			
Acquisitions	0.3	0.6	-
Disposals	0.3	0.5	-
Net	0.7	0.2	0.2
Plant and machinery			
Acquisitions	9.2	8.0	1.7
Disposals	0.7	0.1	0.1
Net	8.6	7.9	1.6
Vehicles			
Acquisitions	1.2	1.1	0.8
Disposals	0.7	0.3	0.2
Net	0.5	0.9	0.6
Total net capital expenditure	9.8	8.9	2.4

(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

	3161	3162	3163
10a Increase during year			
Materials, stores and fuel	-0.2	1.4	-0.5
Work in progress	1.2	0.7	2.1
Goods on hand for sale	3.4	3.2	-0.2
Total	4.4	5.3	1.4
10b Value at end of year			
Materials, stores and fuel	21.2	10.5	8.1
Work in progress	17.8	7.0	5.8
Goods on hand for sale	32.7	19.0	2.2
Total	71.7	36.4	16.0

PA316

	3164	3165	3166	3167	3169
Land and buildings					
New building work	16.1	*	6.0	*	24.4
Land and existing buildings					
Acquisitions	*	2.2	7.3	*	21.6
Disposals	*	*	1.2	*	18.2
Net	16.2	2.9	12.1	0.5	27.8
Plant and machinery					
Acquisitions	116.5	17.9	32.2	4.8	118.0
Disposals	1.8	0.2	2.7	0.2	9.3
Net	114.7	17.7	29.5	4.5	108.7
Vehicles					
Acquisitions	2.9	2.0	7.6	1.9	35.9
Disposals	0.8	0.6	2.8	0.5	11.0
Net	2.1	1.4	4.8	1.4	24.9
Total net capital expenditure	133.0	22.0	46.4	6.4	161.4

	3164	3165	3166	3167	3169
10a Increase during year					
Materials, stores and fuel	13.0	0.6	2.8	0.3	12.9
Work in progress	4.3	-0.7	0.9	2.0	17.0
Goods on hand for sale	23.1	3.0	-1.7	2.2	7.8
Total	40.3	2.9	2.0	4.4	37.7
10b Value at end of year					
Materials, stores and fuel	100.9	22.0	45.5	13.8	215.1
Work in progress	44.3	22.6	33.7	8.6	180.0
Goods on hand for sale	103.7	35.7	36.7	18.0	190.9
Total	248.9	80.4	115.9	40.4	586.1

TABLE 11

PA316

Operating ratios, 1989

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

	Unit	3161	3162	3163	3164
Gross output per head	£	36,084	46,200	49,092	75,144
Net output per head	£	21,048	26,809	19,681	28,331
Gross value added per head	£	17,142	18,361	15,777	23,058
Gross value added as a percentage of gross output	%	48	40	32	31
Ratio of gross output to stocks		4.1	5.3	7.6	7.4
Wages and salaries as a percentage of gross value added	%	57	57	63	50
Ratio of operatives to administrative, technical and clerical employees		3.0	3.0	4.0	3.8
Wages and salaries per operative	£	8,846	8,476	9,204	10,817
Wages and salaries per administrative, technical and clerical employee	£	13,068	16,239	13,510	14,649
Net capital expenditure per head (a)	£	1,191	2,145	955	5,392
Net capital expenditure as a percentage of gross value added (a)	%	7	12	6	23

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

TABLE 11

Operating ratios, 1989

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

	Unit	3165	3166	3167	3169
Gross output per head	£	39,523	45,192	40,304	38,676
Net output per head	£	19,476	21,522	20,116	20,091
Gross value added per head	£	15,536	16,781	15,044	16,159
Gross value added as a percentage of gross output	%	39	37	37	42
Ratio of gross output to stocks		5.1	7.5	4.9	6.8
Wages and salaries as a percentage of gross value added	%	63	67	63	60
Ratio of operatives to administrative, technical and clerical employees		2.6	2.1	2.7	2.7
Wages and salaries per operative	£	8,742	10,238	8,496	8,860
Wages and salaries per administrative, technical and clerical employee	£	12,594	14,014	13,208	13,004
Net capital expenditure per head (a)	£	2,142	2,399	1,290	1,559
Net capital expenditure as a percentage of gross value added (a)	%	14	14	9	10

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

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First published 1991



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Printed in the United Kingdom by
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Dd. 0292625 C4 Cdf 333 3/91

ISBN 0-11-53524 1-4



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