

Central  
Statistical  
Office

PA223

1989

# Business Monitor

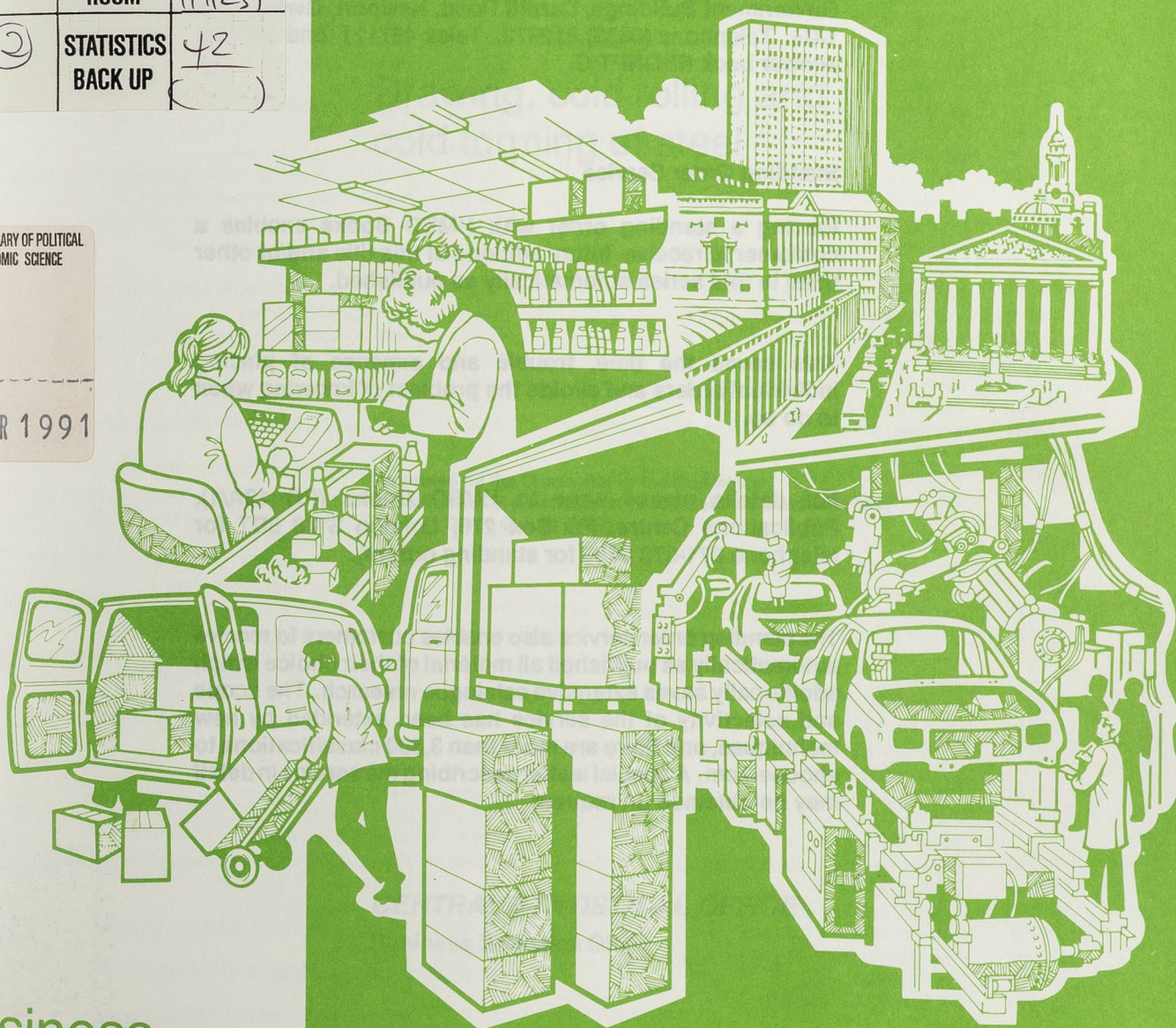
## Report on the Census of Production

Drawing, cold rolling and  
cold forming of steel

|   |                               |             |
|---|-------------------------------|-------------|
| ① | STATISTICS<br>READING<br>ROOM | 42<br>H1251 |
| ② | STATISTICS<br>BACK UP         | 42<br>( )   |

BRITISH LIBRARY OF POLITICAL  
& ECONOMIC SCIENCE

11 MAR 1991



Business  
Statistics  
Office

A publication of the Government Statistical Service



## BUSINESS MONITORS

### SPECIAL NOTE FOR PURCHASERS

The Central Statistical Office, aided by industry and commerce, provides a great deal of the statistical data required by Government for monitoring the economy.

Much of this data is published in the form of Business Monitors, giving information about production, sales, employment and investment.

Full details of the range of Business Monitors are available in the form of a Business Monitor brochure, which can be obtained from the Librarian, Central Statistical Office, Government Buildings, Cardiff Road, Newport, Gwent, NP9 1XG. Telephone (0633) 812973. Telex 497121 and 497122; answer back BSONPT G.

### Standing Order Service

Placing a standing order with HMSO Books enables a customer to receive future editions of this title and/or other titles in this series automatically as published.

This saves the time, trouble and expense of placing individual orders and avoids the problem of knowing when to do so.

For details please write to HMSO Books (PC 13A/1), Publications Centre, PO Box 276, London SW8 5DT (or telephone 071-873 8466 for standing orders).

The standing order service also enables customers to receive automatically as published all material of their choice which additionally saves extensive catalogue research. The scope and selectivity of the service has been extended by new techniques, and there are more than 3,500 classifications to choose from. A special leaflet describing the service in detail may be obtained on request.

# PA223

# BUSINESS MONITOR

A publication of the Government Statistical Service

## Report on the Census of Production 1989

### Drawing, cold rolling and cold forming of steel

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)

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                                                                          |

**PA223 DRAWING, COLD ROLLING AND COLD FORMING OF STEEL**

The information in this report relates to businesses classified to the Metal doors, windows, etc, industry, Group 223 in the Standard Industrial Classification Revised 1980. The industry Group covers the following Activity Heading:-

**2234 Drawing and manufacture of steel wire and steel wire products**  
 Manufacture of ferrous wire and wire products such as fabricated steel reinforcement for concrete, wire nails, wire netting and wire gauze. Upholstery springs are included, but all other springs of wire are classified to Group 313 (except motor vehicle suspension springs classified to Group 353).

**2235 Other drawing, cold rolling and cold forming of steel**  
 Units engaged in cold rolling steel hop, strip or sheet (over 3 mm) from purchased or transferred hot rolled sheet; cold drawing steel bars and shapes from purchased or transferred hot rolled steel bars; and the manufacture of other cold finished products (except wire and wire products) not specified in the European Coal and Steel Community Treat.

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**

**REPORTING UNIT**  
 The data in this report are based on the production unit for 1989 the reporting unit in 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 provide data from their returns to the census any non-productive activity.

**ESTIMATION**  
 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 multi-activity companies which are asked to provide separate returns for each of their production activities on an establishment basis. Throughout this manual the nature of reporting units are referred to as "businesses". These businesses are no longer asked to provide non-productive activities.

**ESTIMATION**  
 In 1989, some small businesses, both before and after the census, reported for the company as a whole. This difference to the main reporting unit has resulted from the change.

**LIST OF CONTENTS**

|                                   |                                                                                                                                       |       |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-------|
| Explanatory notes and definitions |                                                                                                                                       | Page  |
| Table 1                           | Output and costs, 1985-1989                                                                                                           | 5-7   |
| Table 2                           | Capital expenditure, 1985-1989                                                                                                        | 8     |
| Table 3                           | Stocks and work in progress, 1985-1989                                                                                                | 9     |
| Table 4                           | Employment, labour costs, output, net capital expenditure and stocks and work in progress by size of total employment, 1989           | 9     |
| Table 5                           | Percentage analysis of twelve-month periods covered by returns received for the 1989 Census by number of returns and total employment | 10-11 |
| Table 6                           | Operating ratios, 1985-1989                                                                                                           | 12    |
| Table 7                           | Regional distribution of employment, net capital expenditure, net output and gross value added at factor cost, 1989                   | 12    |
| Table 8                           | Output and costs by activity heading, 1989                                                                                            | 13    |
| Table 9                           | Capital expenditure by activity heading, 1989                                                                                         | 14    |
| Table 10                          | Stocks and work in progress by activity heading, 1989                                                                                 | 15    |
| Table 11                          | Operating ratios by activity heading, 1989                                                                                            | 15    |



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 merchandising 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 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   | Businesses      |            | Employment  |             |                                        | Wages and salaries (c) |               |                                        |               |
|--------------|-----------------|------------|-------------|-------------|----------------------------------------|------------------------|---------------|----------------------------------------|---------------|
|              | Enterprises (b) | Number     | Thousand    | Operatives  | Administrative, technical and clerical | Operatives             |               | Administrative, technical and clerical |               |
|              |                 |            |             |             |                                        | Total                  | per head      | Total                                  | per head      |
|              |                 |            | Thousand    | Thousand    | Thousand                               | £ million              | £             | £ million                              | £             |
| 1-9          | 195             | 195        | 0.7         |             |                                        |                        |               |                                        |               |
| 10-19        | 58              | 58         | 0.8         |             |                                        |                        |               |                                        |               |
| 20-49        | 80              | 79         | 2.7         | 6.1         | 1.9                                    | 54.8                   | 9,015         | 24.9                                   | 12,876        |
| 50-99        | 54              | 53         | 3.8         |             |                                        |                        |               |                                        |               |
| 100-199      | 39              | 27         | 5.4         | 4.1         | 1.4                                    | 42.4                   | 10,421        | 16.6                                   | 12,162        |
| 200-299      | 18              | 16         | 4.3         | 3.1         | 1.1                                    | 33.8                   | 10,840        | 13.0                                   | 11,517        |
| 300-499      | 7               | 5          | 2.5         | 2.0         | 0.6                                    | 21.0                   | 10,724        | 7.1                                    | 12,562        |
| 500-Plus     | 7               | 6          | 5.4         | 3.8         | 1.7                                    | 45.3                   | 11,978        | 21.6                                   | 12,966        |
| <b>Total</b> | <b>458</b>      | <b>401</b> | <b>25.8</b> | <b>19.0</b> | <b>6.7</b>                             | <b>197.3</b>           | <b>10,382</b> | <b>83.3</b>                            | <b>12,495</b> |

- (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 £38.3 million. The remuneration of outworkers on returns received - also excluded from the table - was £113 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 1989 Census

| 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     |                             |                                                  |              |
|                           |                |              |                                  |              |                             |                                                  | £ million    |
| 474.5                     | 476.8          | 165.9        | 20,467                           | (e)          | 14.6                        | 64.2                                             |              |
| 397.0                     | 398.4          | 124.2        | 22,868                           | 224.2(e)     | 16,731(e)                   | 12.0                                             | 52.0         |
| 319.4                     | 319.0          | 88.3         | 20,754                           | 66.6         | 15,647                      | 7.5                                              | 45.9         |
| 143.3                     | 143.2          | 61.2         | 24,248                           | 50.6         | 20,038                      | 4.6                                              | 17.0         |
| 401.8                     | 406.0          | 145.4        | 26,688                           | 114.3        | 20,988                      | 21.2                                             | 50.3         |
| <b>1,735.9</b>            | <b>1,743.3</b> | <b>585.1</b> | <b>22,707</b>                    | <b>455.7</b> | <b>17,687</b>               | <b>59.9</b>                                      | <b>229.5</b> |

(a) From 1989 cost factors were asked to include as capital expenditure the value of assets acquired under finance leasing arrangements - see table 2.

TABLE 5

PA223

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            | 1.3                                  | 0.6                            |
| May                   | 1.3                                  | 1.4                            |
| June                  | 2.6                                  | 2.4                            |
| July                  | 7.9                                  | 11.0                           |
| August                | 4.0                                  | 4.2                            |
| September             | 9.9                                  | 10.6                           |
| October               | 5.3                                  | 3.1                            |
| November              | 2.6                                  | 0.8                            |
| December              | 49.7                                 | 54.1                           |
| 1990                  |                                      |                                |
| January               | 1.3                                  | 0.5                            |
| February              | 1.3                                  | 0.7                            |
| 1 March - 5 April     | 12.6                                 | 10.7                           |

TABLE 6

Operating ratios, 1985-1989

All United Kingdom businesses classified to the industry

|                                                                         | Unit | 1985   | 1986   | 1987   | 1988   | 1989   |
|-------------------------------------------------------------------------|------|--------|--------|--------|--------|--------|
| Gross output per head                                                   | £    | 49,292 | 50,386 | 57,458 | 62,992 | 67,658 |
| Net output per head                                                     | £    | 16,093 | 17,288 | 19,223 | 23,090 | 22,707 |
| Gross value added per head                                              | £    | 13,004 | 14,180 | 15,435 | 19,107 | 17,687 |
| Gross value added as a percentage of gross output                       | %    | 26     | 28     | 27     | 30     | 26     |
| Ratio of gross output to stocks                                         |      | 7.4    | 7.6    | 7.9    | 7.5    | 7.6    |
| Wages and salaries as a percentage of gross value added                 | %    | 62     | 61     | 61     | 54     | 62     |
| Ratio of operatives to administrative, technical and clerical employees |      | 2.7    | 2.7    | 2.8    | 2.8    | 2.9    |
| Wages and salaries per operative                                        | £    | 7,822  | 8,399  | 9,060  | 9,916  | 10,382 |
| Wages and salaries per administrative, technical and clerical employee  | £    | 8,952  | 9,494  | 10,381 | 11,303 | 12,495 |
| Net capital expenditure per head (a)                                    | £    | 1,007  | 1,077  | 1,457  | 2,209  | 2,324  |
| Net capital expenditure as a percentage of gross value added (a)        | %    | 8      | 8      | 9      | 12     | 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

PA223

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                       | *                    | *                          | *                           | *                          | *              | *                          | *                                    | *                          |
| Yorkshire and Humberside    | 6.0                  | 23.4                       | 15.1                        | 25.1                       | 140.0          | 23.9                       | 108.5                                | 23.8                       |
| East Midlands               | 2.5                  | 9.7                        | 5.8                         | 9.6                        | 46.9           | 8.0                        | 37.4                                 | 8.2                        |
| East Anglia                 | *                    | *                          | *                           | *                          | *              | *                          | *                                    | *                          |
| South East                  | 3.0                  | 11.5                       | 5.2                         | 8.6                        | 59.6           | 10.2                       | 45.1                                 | 9.9                        |
| South West                  | 0.3                  | 1.1                        | 1.0                         | 1.7                        | 5.2            | 0.9                        | 3.8                                  | 0.8                        |
| West Midlands               | 7.1                  | 27.7                       | 18.8                        | 31.4                       | 164.2          | 28.1                       | 128.8                                | 28.3                       |
| North West                  | 2.7                  | 10.6                       | 5.2                         | 8.7                        | 60.9           | 10.4                       | 46.5                                 | 10.2                       |
| England                     | 23.0                 | 89.2                       | 52.4                        | 87.6                       | 510.7          | 87.3                       | 395.8                                | 86.8                       |
| Wales                       | 1.4                  | 5.2                        | 3.1                         | 5.2                        | 37.7           | 6.4                        | 29.0                                 | 6.4                        |
| Scotland                    | *                    | *                          | *                           | *                          | *              | *                          | *                                    | *                          |
| Great Britain               | *                    | *                          | *                           | *                          | *              | *                          | *                                    | *                          |
| Northern Ireland            | *                    | *                          | *                           | *                          | *              | *                          | *                                    | *                          |
| United Kingdom              | 25.8                 | 100.0                      | 59.9                        | 100.0                      | 585.1          | 100.0                      | 455.7                                | 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

PA223

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

|                                                                       | Unit      | 2234           | 2235          |
|-----------------------------------------------------------------------|-----------|----------------|---------------|
| Enterprises(a)                                                        | Number    | 355            | 48            |
| Businesses                                                            | "         | 400            | 58            |
| Sales of goods produced                                               | £ million | 1,122.3        | 523.9         |
| Work done and industrial services rendered                            | "         | 3.3            | 3.9           |
| Capital goods produced for use within the business                    | "         | 1.7            | 0.6           |
| Non-industrial services rendered                                      | "         | 0.4            | 0.1           |
| Goods merchanted or factored                                          | "         | 70.0           | 9.6           |
| <b>Total sales and work done</b>                                      | "         | <b>1,197.7</b> | <b>538.2</b>  |
| Increase during the year, work in progress and goods on hand for sale | "         | 4.1            | 3.3           |
| <b>Gross output</b>                                                   | "         | <b>1,201.8</b> | <b>541.5</b>  |
| Purchases of materials for use in production, packaging and fuel      | "         | 702.6          | 355.7         |
| Purchases of goods for merchenting or factoring                       | "         | 53.3           | 7.4           |
| Increase during the year, stocks of materials, stores and fuel        | "         | -4.6           | 2.4           |
| Cost of industrial services received                                  | "         | 26.1           | 10.9          |
| <b>Net output</b>                                                     | "         | <b>415.1</b>   | <b>170.0</b>  |
| Total employment                                                      | Thousand  | 19.6           | 6.1           |
| <b>Net output per head</b>                                            | £         | <b>21,131</b>  | <b>27,759</b> |
| Cost of non-industrial services received                              |           |                |               |
| Hire of vehicles, plant and machinery                                 | £ million | 3.6            | 0.9           |
| Rents of industrial and commercial buildings                          | "         | 3.1            | 2.1           |
| Commercial insurance premiums                                         | "         | 5.1            | 2.6           |
| Bank charges                                                          | "         | 0.7            | 0.3           |
| Other non-industrial services                                         | "         | 70.5           | 24.6          |
| Licensing of motor vehicles                                           | "         | 0.3            | 0.1           |
| Rates, excluding water rates                                          | "         | 11.5           | 4.1           |
| <b>Gross value added at factor cost</b>                               | "         | <b>320.4</b>   | <b>135.3</b>  |
| <b>Gross value added at factor cost per head</b>                      | £         | <b>16,311</b>  | <b>22,098</b> |

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

TABLE 9

PA223

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

|                                      | 2234        | 2235        |
|--------------------------------------|-------------|-------------|
| Land and buildings                   |             |             |
| New building work                    | 5.0         | 0.4         |
| Land and existing buildings          |             |             |
| Acquisitions                         | *           | *           |
| Disposals                            | *           | *           |
| Net                                  | 7.8         | 0.3         |
| Plant and machinery                  |             |             |
| Acquisitions                         | 33.6        | 16.7        |
| Disposals                            | 1.2         | 1.0         |
| Net                                  | 32.4        | 15.6        |
| Vehicles                             |             |             |
| Acquisitions                         | 4.0         | 2.2         |
| Disposals                            | 1.3         | 1.1         |
| Net                                  | 2.7         | 1.1         |
| <b>Total net capital expenditure</b> | <b>42.9</b> | <b>17.0</b> |

(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

|                            | 2234         | 2235        |
|----------------------------|--------------|-------------|
| 10a Increase during year   |              |             |
| Materials, stores and fuel | -4.6         | 2.4         |
| Work in progress           | 1.9          | 1.2         |
| Goods on hand for sale     | 2.2          | 2.1         |
| <b>Total</b>               | <b>-0.6</b>  | <b>5.7</b>  |
| 10b Value at end of year   |              |             |
| Materials, stores and fuel | 64.8         | 41.1        |
| Work in progress           | 30.8         | 18.3        |
| Goods on hand for sale     | 48.5         | 26.0        |
| <b>Total</b>               | <b>144.1</b> | <b>85.4</b> |

TABLE 11

PA223

Operating ratios, 1989

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

|                                                                         | Unit | 2234   | 2235   |
|-------------------------------------------------------------------------|------|--------|--------|
| Gross output per head                                                   | £    | 61,183 | 88,428 |
| Net output per head                                                     | £    | 21,131 | 27,759 |
| Gross value added per head                                              | £    | 16,311 | 22,098 |
| Gross value added as a percentage of gross output                       | %    | 27     | 25     |
| Ratio of gross output to stocks                                         |      | 8.3    | 6.3    |
| Wages and salaries as a percentage of gross value added                 | %    | 66     | 52     |
| Ratio of operatives to administrative, technical and clerical employees |      | 3.0    | 2.4    |
| Wages and salaries per operative                                        | £    | 10,102 | 11,325 |
| Wages and salaries per administrative, technical and clerical employee  | £    | 12,612 | 12,175 |
| Net capital expenditure per head (a)                                    | £    | 2,182  | 2,781  |
| Net capital expenditure as a percentage of gross value added (a)        | %    | 13     | 13     |

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

Central Statistical Office

Business Monitor

PA224

1989

STATISTICS READING ROOM 4251  
STATISTICS BACK UP 42

Central Statistical Office

TABLE 11

Operating costs, 1991

As a percentage of gross value added in each activity, excluding output tax and input tax

|                                                                         | 1991   | 1990   |
|-------------------------------------------------------------------------|--------|--------|
| Direct wages per head                                                   | 1      | 1      |
| Materials per head                                                      | 21.131 | 27.753 |
| Gross Value added per head                                              | 20.311 | 22.498 |
| Gross Value added as a percentage of production                         | 2      | 2      |
| Energy per head                                                         | 2.3    | 2.3    |
| Wages and salaries as a percentage of gross value added                 | 5      | 5      |
| Value of operations to administrative, technical and clerical employees | 3.7    | 3.4    |
| Wages and salaries per head                                             | 18.792 | 17.315 |
| Wages and salaries per head excluding technical and clerical employees  | 15.091 | 13.774 |
| Net output per head (excluding output tax)                              | 1.781  | 2.741  |
| Net output per head (including output tax)                              | 1.8    | 1.3    |

'Brief extracts from this publication may be reproduced provided the source is fully acknowledged. Proposals for reproduction of larger extracts should be addressed to the Librarian, Central Statistical Office, Government Buildings, Cardiff Road, Newport, Gwent NP9 1XG.'

© Crown copyright 1991  
First published 1991



HMSO publications are available from:

**HMSO Publications Centre**

(Mail and telephone orders only)  
PO Box 276, London SW8 5DT  
Telephone orders 01-873 9090  
General enquiries 01-873 0011  
(queuing system in operation for both numbers)

**HMSO Bookshops**

49 High Holborn, London, WC1V 6HB 01-873 0011 (Counter service only)  
258 Broad Street, Birmingham, B1 2HE 021-643 3740  
Southey House, 33 Wine Street, Bristol, BS1 2BQ (0272) 264306  
9-21 Princess Street, Manchester, M60 8AS 061-834 7201  
80 Chichester Street, Belfast, BT1 4JY (0232) 238451  
71 Lothian Road, Edinburgh, EH3 9AZ 031-228 4181

**HMSO's Accredited Agents**

(see Yellow Pages)

and through good booksellers

From 6 May 1990 the London telephone numbers above carry the prefix '071' instead of '01'.

ISBN 0-11-535208-2



9 780115 352089

£7.50 net

Printed in the United Kingdom by  
HMSO at Cardiff  
Dd. 0292625 C3 Cdf 299 1/91