

PA316

"STATISTICS"
READING
ROOM

1983

S/42 (HA251)

STAT S BACK UP
STATISTICS
BACK - UP

BRITISH LIBRARY
17 SEP 1985
OF POLITICAL AND
ECONOMIC SCIENCE

HMSO

Business Statistics Office

BUSINESS MONITOR

Report on the
Census of Production

Hand tools and finished
metal goods



A publication of the Government Statistical Service

BUSINESS MONITORS

SPECIAL NOTE FOR PURCHASERS

The Business Statistics Office, aided by industry and commerce, provides much of the statistical data required by Government for monitoring the economy.

You may, if you wish, purchase much of the data in the form of Business Monitors which are a series of publications containing statistical information compiled from inquiry forms sent out regularly by the BSO to selected firms asking detailed questions about production, sales, employment and investment. Business Monitors are the primary or in many cases the only source of the information they contain.

The Annual Census of Production Monitors deal with the manufacturing, energy, mining and construction industries. There are 114 Monitors in this series some of which cover more than one industry and they are all listed overleaf. They are prefixed by a code P (for Production) followed by A (annual series).

The 1980 Annual Census of Production was the first to be produced on the basis of the 1980 revision of the Standard Industrial Classification with individual reports covering three digit groups of the classification. 1980 reports contain comparable data for 1979, reworked from information originally published on the basis of the 1968 revision of the SIC. Also available is a special summary volume for the 1979 Census of Production based on 1980 SIC, and also containing the 1979 Purchases Inquiry Business Monitor — PA1002.1. 1979 Census of Production and Purchases Inquiry is available from HMSO Books, PO Box 276, London SW8 5DT (Telephone 01-622 3316 for orders) price £21.00 reference ISBN 011 5141146.

If you would like details concerning Annual Census of Production data published for earlier years please telephone Newport 56111 (STD 0633) Ext 2455.

If you would like to know more about the complete series of Business Monitors please contact HMSO Books (Publicity Department), FREEPOST, Norwich NR3 1BR who will send you a copy of the detailed Business Monitor Brochure which lists the Monitors available. For individual Monitor copies, back numbers or further information regarding the contents of Business Monitors please contact the Librarian, Business Statistics Office, Government Buildings, Cardiff Road, Newport, Gwent, NP9 1XG. Telephone Newport (0633) 56111, Extension 2973. Telex 497121; 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 01-211 0363 for standing orders) and quoting reference X30.03.16.

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.

PA316

BUSINESS MONITOR

A publication of the Government Statistical Service

Report on the Census of Production 1983

Hand tools and finished metal goods

Presented by the Secretary of State for Trade and Industry
to Parliament in pursuance of the Statistics of Trade Act 1947
(10 & 11 Geo.6 Cha.39 sec 7)

Department of Trade and Industry
Business Statistics Office

London: Her Majesty's Stationery Office

BUSINESS MONITORS MAKING UP THE COMPLETE CENSUS REPORT

PA1001	Introductory notes	PA372	Medical and surgical equipment and orthopaedic appliances
PA111	Coal extraction and manufacture of solid fuels	PA373	Optical precision instruments and photographic equipment
PA120	Coke ovens	PA374	Clocks, watches and other timing devices
PA130	Extraction of mineral oil and natural gas	PA411	Organic oils and fats
PA140	Mineral oil processing	PA412	Processing of bacon, meat and poultry
PA161	Production and distribution of electricity	PA413	Preparation of milk and milk products
PA162	Public gas supply	PA414	Processing of fruit and vegetables
PA170	Water supply industry	PA415	Fish processing
PA210	Extraction and preparation of metalliferous ores	PA416	Grain milling
PA221	Iron and steel industry	PA419	Bread, biscuits and flour confectionery
PA222	Steel tubes	PA420	Sugar and sugar by-products
PA223	Drawing, cold rolling and cold forming of steel	PA421	Ice-cream, cocoa, chocolate and sugar confectionery
PA224	Non-ferrous metals industry	PA422	Animal feeding stuffs
PA231	Extraction of stone, clay, sand and gravel	PA423	Starch and miscellaneous foods
PA239	Extraction of miscellaneous minerals (including salt)	PA424	Spirit distilling and compounding
PA241	Structural clay products	PA426	Wines, cider and perry
PA242	Cement, lime and plaster	PA427	Brewing and malting
PA243	Building products of concrete, cement or plaster	PA428	Soft drinks
PA244	Asbestos goods	PA429	Tobacco industry
PA245	Working of stone and other non-metallic minerals	PA431	Woolen and worsted industry
PA246	Abrasive products	PA432	Cotton and silk industries
PA247	Glass and glassware	PA433	Throwing, texturing, etc. of continuous filament yarn
PA248	Refractory and ceramic goods	PA434	Spinning and weaving of flax, hemp and ramie
PA251	Basic industrial chemicals	PA435	Jute and polypropylene yarns and fabrics
PA255	Paints, varnishes and printing ink	PA436	Hosiery and other knitted goods
PA256	Specialised chemical products mainly for industrial and agricultural purposes	PA437	Textile finishing
PA257	Pharmaceutical products	PA438	Carpets and other textile floorcoverings
PA258	Soap and toilet preparations	PA439	Miscellaneous textiles
PA259	Specialised chemical products mainly for household and office use	PA441	Leather (tanning and dressing) and fellmongery
PA260	Production of man-made fibres	PA442	Leather goods
PA311	Foundries	PA451	Footwear
PA312	Forging, pressing and stamping	PA453	Clothing, hats and gloves
PA313	Bolts, nuts, etc.; springs; non-precision chains; metals treatment	PA455	Household textiles and other made-up textiles
PA314	Metal doors, windows, etc.	PA456	Fur goods
PA316	Hand tools and finished metal goods	PA461	Sawmilling, planing, etc. of wood
PA320	Industrial plant and steelwork	PA462	Manufacture of semi-finished wood products and further processing and treatment of wood
PA321	Agricultural machinery and tractors	PA463	Builders' carpentry and joinery
PA322	Metal-working machine tools and engineers' tools	PA464	Wooden containers
PA323	Textile machinery	PA465	Miscellaneous wooden articles
PA324	Machinery for the food, chemical and related industries; process engineering contractors	PA466	Articles of cork and plaiting materials, brushes and brooms
PA325	Mining machinery, construction and mechanical handling equipment	PA467	Wooden and upholstered furniture and shop and office fittings
PA326	Mechanical power transmission equipment	PA471	Pulp, paper and board
PA327	Machinery for printing, paper, wood, leather, rubber, glass and related industries: laundry and dry cleaning machinery	PA472	Conversion of paper and board
PA328	Miscellaneous machinery and mechanical equipment	PA475	Printing and publishing
PA329	Ordnance, small arms and ammunition	PA481	Rubber products
PA330	Manufacture of office machinery and data processing equipment	PA483	Processing of plastics
PA341	Insulated wires and cables	PA491	Jewellery and coins
PA342	Basic electrical equipment	PA492	Musical instruments
PA343	Electrical equipment for industrial use, and batteries and accumulators	PA494	Toys and sports goods
PA344	Telecommunication equipment, electrical measuring equipment, electronic capital goods and passive electronic components	PA495	Miscellaneous manufacturing industries
PA345	Miscellaneous electronic equipment	PA500	Construction
PA346	Domestic-type electric appliances	PA1002	Summary tables
PA347	Electric lamps and other electric lighting equipment		
PA351	Motor vehicles and their engines		
PA352	Motor vehicle bodies, trailers and caravans		
PA353	Motor vehicle parts		
PA361	Shipbuilding and repairing		
PA362	Railway and tramway vehicles		
PA363	Cycles and motor cycles		
PA364	Aerospace equipment manufacturing and repairing		
PA365	Miscellaneous vehicles		
PA371	Measuring, checking and precision instruments and apparatus		

PA316 HAND TOOLS AND FINISHED METAL GOODS

PA316

The information in this report relates to establishments classified to the Hand tools and finished metal goods industry, Group 316 in the Standard Industrial Classification Revised 1980. The industry Group covers the following Activity Headings:—

3161 Hand tools and implements

1. Agricultural hand tools

Manufacture of agricultural, horticultural and foresters' hand tools.

2. Other hand tools

Manufacture of builders', carpenters', engineers', mechanics' and other industrial hand tools.

3162 Cutlery, spoons, forks and similar tableware; razors

1. Cutlery, spoons, forks and similar tableware

Manufacture of table knives, kitchen knives, pocket knives, scissors, forks, spoons and similar tableware of base metals, including silver plated. The manufacture of swords, bayonets, etc. is included. Surgical cutlery is excluded and classified to Group 372; articles of precious metals are excluded and classified to Group 491.

2. Razors and razor blades

3163 Metal storage vessels (mainly non-industrial)

Manufacture of metal tanks, cisterns and similar metal storage vessels and holloware other than cast iron, including dustbins and other rubbish containers, but excluding the industrial plant and steelwork in Group 320.

3164 Packaging products of metal

1. Metal cans and boxes

Manufacture of tin and aluminium cans, metal boxes and other small metal containers and parts, including rigid and collapsible tubular containers.

2. Metal kegs, drums and barrels

Manufacture and reconditioning of metal kegs, drums, barrels and similar transit containers, including milk churns.

3. Metallic closures

Manufacture of metal closures for bottles, jars and similar containers including crown corks and heavy grade closures for drums, etc.

4. Foil packaging goods

Manufacture of aluminium and other metallic foil packaging goods, including laminates of foil with other materials.

5. Other packaging products of metal

Manufacture of metal pallets and stillages, rolls and drums for cables, hoses, etc., and all other metallic packaging products and accessories.

3165 Domestic heating and cooking appliances (non-electrical)

Manufacture of gas, oil and solid fuelled heating and cooking appliances, excluding central heating systems classified to Group 328, gas refrigerators which are classified to Group 346 and appliances wholly or mainly of cast iron which are classified to Group 311.

3166 Metal furniture and safes

1. Metal furniture

Manufacture of domestic, outdoor and office furniture of metal, excluding upholstered furniture with a metal frame which is classified to Group 467.

2. Safes, etc.

Manufacture of safes, cash and deed boxes and similar security equipment.

3167 Domestic and similar utensils of metal

Manufacture of kettles (non-electric), teapots, cookware, bakeware, tableware and other finished metal goods for domestic and similar use. All articles of precious metals are classified to Group 491.

3169 Finished metal products, not elsewhere specified

1. Locks, etc.

Manufacture of locks, padlocks, latches and keys and blanks for all purposes.

2. Needles, pins and other metal small-wares

Manufacture of metal sewing, knitting, hosiery and other needles, toilet, safety, hair and hat pins, crochet hooks and metal small-wares for the clothing, fancy leather goods, harness and saddlery trades such as bag clasps and frames, buckles, hooks and eyes, snap and zip fasteners, etc.

3. Base metal fittings and mountings for furniture, builders' joinery, leather and travel goods, not elsewhere specified

Manufacture of hinges, brackets, catches and other base metal fittings and mountings for furniture and cabinets, doors and door frames, windows and shutters, shelves, staircases, trunks, suitcases, handbags and other travel goods, etc. not elsewhere specified.

4. Miscellaneous finished metal products, not elsewhere specified

Manufacture of anchors, grapnels and drags, metal hand-trucks, wheelbarrows, ladders, art metal work, sanitary ware and plumbing fixtures and fittings (excluding tanks and cisterns) and other finished metal products not elsewhere specified. General sheet metal working in base metals is included but the production of non-ferrous hot stampings and pressings and cold pressing, stamping and piercing base metals are excluded and classified to Group 312.

For a full description of the 1980 classification see Standard Industrial Classification Revised 1980, obtainable from Her Majesty's Stationery Office, price £3.40.

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

LIST OF CONTENTS

	Page
Explanatory notes and definitions	5-7
Table 1 Output and costs, 1979-1983	8
Table 2 Capital expenditure, 1979-1983	9
Table 3 Stocks and work in progress, 1979-1983	9
Table 4 Employment, labour costs, output, net capital expenditure and stocks and work in progress by size of total employment, 1983	10-11
Table 5 Percentage analysis of twelve-month periods covered by returns received for the 1983 Census by number of returns and total employment	12
Table 6 Operating ratios, 1979-1983	12

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 (PA1001).

2. Since 1980, Censuses have been conducted on the Standard Industrial Classification Revised 1980 (SIC(80)). The Standard Industrial Classification exists to promote uniformity and comparability in the official statistics of the United Kingdom. The SIC(80) is the result of an attempt to align the United Kingdom classification with the General Industrial Classification of Economic Activities within the European Communities (NACE). It is based on activity rather than commodities produced. A full description of SIC(80) is given in Standard Industrial Classification Revised 1980, obtainable from Her Majesty's Stationery Office, price £3.40.

REPORTING UNIT

3. As far as possible the reporting unit in respect of which information is collected is one whose activities fall within a single activity heading of the classification and which is situated at a single geographical location. Frequently, however, the information required cannot be provided on this basis. Where information covering a mixture of activities is all that is available, the unit is classified according to the main activity. Where a unit operates at a number of locations and the full range of information is not available for each location, the reporting unit is deemed to cover a number of locations. In most cases, separate information on employment and net capital expenditure is obtained for each location (local unit) in order to enable regional data to be compiled. The reporting unit, usually called the establishment, is therefore defined as the smallest unit for which the information normally required in a production census can be provided.

4. Establishments are asked to exclude from their returns particulars relating to ancillary departments not engaged in production (such as merchandising or factoring organisations, transport organisations, canteens and warehouses) for which separate accounts are kept. Transfers of goods produced to such departments are treated as sales, valued as far as possible as if sold to an independent purchaser. Where separate accounts are not kept, establishments are allowed to include details in their returns. Establishments are asked to include details relating to head offices engaged mainly in the administration of production units within the scope of the Census. Where head office activity covers more than one return, details are included in the principal return.

THE REGISTER

5. A register of production units throughout the United Kingdom is held on the BSO computer and provides the basis for BSO inquiries to the production sector. For each unit the register contains identification particulars and information about that unit's eligibility for inclusion in an inquiry, its relationship with other units 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 - Analyses of United Kingdom Manufacturing (Local) Units by Employment Size.

6. The annual Census and other inquiries provide a major source of information for updating and checking the register. For establishments 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. Employment data are provided by the Quarterly Sales Inquiry and the Census of Production. Where establishments on the register do not make returns to these inquiries, employment is based mainly on information provided by the Department of Employment from Censuses of Employment. New additions to the register are obtained from various sources including HM Customs and Excise VAT records and Censuses of Employment.

COVERAGE

7. The Census covers United Kingdom establishments engaged in industrial production, i.e. mining and quarrying, manufacturing, construction, and gas, electricity and water supply industries (Divisions 1 to 5 of SIC(80)). Establishments in the Channel Islands and the Isle of Man are excluded.

8. Under the sampling arrangements agreed for the 1983 Census, forms were despatched to all establishments with 100 or more employed with, for most production industries, samples of 1 in 4 and 1 in 2 respectively being taken for establishments in the 20 to 49 and 50 to 99 employment size bands. For the remaining industries, where there were few units in the sample size bands or where response in earlier years was poor, it was necessary to increase the sample of establishments with 20 or more employed. About 17,500 forms were despatched to production establishments in the United Kingdom for the 1983 Census.

PERIOD COVERED

9. Establishments were asked to make returns for the calendar year 1983 but, where this was not possible, returns for business years ending between 6 April 1983 and 5 April 1984 were accepted. Returns covering fewer than twelve months were accepted for businesses which had started or ceased trading during the year.

ESTIMATION

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

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

12. The accuracy of the totals produced by adding together estimates and returned data is mainly dependent on two measures. The first of these is the extent to which establishments making satisfactory returns account for the overall total for any heading. In practice a measure of this is normally taken to be the employment of establishments making satisfactory returns expressed as a percentage of the total estimated employment (this is given in footnote (a) to Table 1). Thus the accuracy of data published in an Industry Report where 95 per cent of the employment in the industry is covered by returns made, will, in general, be better than that in an Industry Report where the coverage is only 70 per cent.

13. The second measure is the extent to which individual headings in an Industry Report are related to employment. 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

14. 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."

15. 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 1983

16. There were no major changes between the 1983 census and the 1982 census.

SYMBOLS USED

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

- .. not available
- nil or less than half the final digit shown
- * figures cannot be shown owing to the risk of disclosing information about individual enterprises
- R revised

ROUNDING OF FIGURES

18. 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

19. 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

20. 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 establishment's return related. 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. Where expenditure is spread over more than one Census year, payments are included in the years in which they were made. 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 ESTABLISHMENTS' OWN USE by establishments' own staff are included. The value of any assets acquired in taking over an existing business are 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

21. 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

22. This represents the value of new building and other construction 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

23. 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 ESTABLISHMENTS' OWN USE

24. This represents the value of all work of a capital nature carried out during the year by the establishments' own staff for use in the businesses covered by the returns.

COST OF INDUSTRIAL SERVICES RECEIVED

25. This includes amounts payable to other organisations for work done on materials supplied by the establishment 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

26. This 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 on materials and fuel imported are excluded.

EMPLOYERS' NATIONAL INSURANCE CONTRIBUTIONS ETC.

27. This includes employers' national insurance contributions, including the national insurance surcharge, 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 or their dependents. Also included are contributions to canteens, social centres, children's and holiday homes etc. and the cost of supplying luncheon vouchers.

EMPLOYMENT

28. 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 (i.e. people who worked in their own homes on materials supplied by establishments) and casual employees such as jobbers are excluded. The average number of employees returned by individual establishments 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

29. 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 other than operatives.

b. OPERATIVES

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

c. WORKING PROPRIETORS

31. 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.

GROSS OUTPUT

32. This is calculated by increasing (or decreasing) the value of TOTAL SALES AND WORK DONE by the rise (or fall) during the year of WORK IN PROGRESS AND GOODS ON HAND FOR SALE.

GROSS VALUE ADDED AT FACTOR COST

33. 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

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

NET CAPITAL EXPENDITURE

35. 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

36. This is a traditional census measure 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 and 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

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

NON-INDUSTRIAL SERVICES RENDERED

38. 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

39. These ratios are calculated using industry totals, i.e. including the estimates for establishments 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

40. 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 establishments or given out to other establishments for the production of machinery or other capital items for the establishments' own use and materials for use by the establishments 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 establishments' 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 to an establishment from other departments of the organisation not covered by the return are included at the estimated selling value recorded by the other departments.

REMUNERATION PAID TO OUTWORKERS

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

SALES OF GOODS PRODUCED

42. This represents deliveries on sale of goods produced by establishments in the United Kingdom coming within the scope of the Census irrespective of whether or not they were produced in the year of the return. It also includes sales of goods made for establishments from materials given out by them to other organisations or to outworkers and sales of waste products and residues. The value of sales is the 'net selling value', i.e. the amount charged to customers whether valued 'ex-works' or 'delivered' less VAT, trade discounts, agents' commissions, etc. and allowances on returned goods. Where products attract Excise duty, the value is inclusive of duty if goods are sold 'duty-paid' and exclusive of duty if goods 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 an establishment to departments not covered by the return (including other establishments in the same enterprise group) are treated as sales, valued as if sold to an independent purchaser.

STOCKS

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

WAGES AND SALARIES

44. 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 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

45. This includes amounts charged for work carried out including that done by sub-contractors on customers' materials including amounts charged by establishments for materials supplied by them in the course of such work and for industrial services such as repairs and maintenance, installation work and technical research and studies rendered to other organisations. 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 type-setting, 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

46. 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

Output and costs, 1979-1983
All United Kingdom establishments classified to the industry (a)

	Unit	1979	1980	1981	1982	1983
Enterprises	Number	6,828	6,854	6,977	6,632	6,595
Establishments	"	7,253	7,295	7,431	7,049	6,995
Sales of goods produced	£ million	3,811.5	3,961.0	3,738.2	4,082.0	4,384.9
Receipts for work done and industrial services rendered	"	59.7	60.0	82.5	82.9	106.8
Capital goods produced for establishments' own use	"	6.5	6.4	6.9	6.1	6.4
Non-industrial services rendered	"	11.1	10.8	11.1	19.9	14.9
Goods merchanted or factored	"	245.4	285.7	259.9	312.0	343.0
Total sales and work done	"	4,134.2	4,323.9	4,098.7	4,502.8	4,856.1
Increase during the year, work in progress and goods on hand for sale	"	57.4	16.5	-23.8	17.0	22.0
Gross output	"	4,191.6	4,340.5	4,074.8	4,519.9	4,878.0
Purchases of materials for use in production, and packaging and fuel	"	2,000.1	2,081.4	1,888.4	2,021.0	2,250.7
Purchases of goods for merchenting or factoring	"	193.7	208.5	186.5	234.3	262.0
Increase during the year, stocks of materials, stores and fuel	"	61.1	-36.4	-16.8	-21.7	16.9
Cost of industrial services received	"	111.6	88.5	78.4	90.7	105.5
Net output	"	1,947.2	1,925.6	1,904.8	2,152.1	2,276.7
Total employment	Thousand	243.0	228.0	199.7	188.1	180.6
Net output per head	£	8,013	8,446	9,537	11,443	12,605
Cost of non-industrial services received						
Hire of vehicles, plant and machinery	£ million	15.6	16.5	19.2	23.5	30.5
Rents of industrial and commercial buildings	"	17.7	21.0	21.8	25.1	28.5
Commercial insurance premiums	"	19.6	23.2	22.7	21.1	20.6
Bank charges	"	2.1	2.5	2.4	3.0	3.3
Other non-industrial services	"	181.7	209.8	236.1	268.0	295.1
Licensing of motor vehicles	"	1.8	1.9	2.0	2.3	2.3
Rates, excluding water rates	"	29.2	36.5	44.0	48.9	48.8
Gross value added at factor cost	"	1,679.3	1,614.2	1,556.6	1,760.3	1,847.5
Gross value added at factor cost per head	£	6,911	7,080	7,793	9,359	10,229

(a) Satisfactory returns accounted for 62 per cent of employment within the industry in 1983.

PA316

TABLE 2

Capital expenditure, 1979-1983
All United Kingdom establishments classified to the industry

	£ million				
	1979	1980	1981	1982	1983
Land and buildings					
New building work	17.8	19.5	10.0	6.6	7.9
Land and existing buildings					
Acquisitions	9.7	9.9	5.1	5.9	5.3
Disposals	5.4	3.8	5.3	8.6	32.0
Net	22.1	25.6	9.8	3.9	-18.7
Plant and machinery					
Acquisitions	126.0	124.1	100.3	97.1	123.4
Disposals	5.2	15.8	7.6	11.4	7.7
Net	120.8	108.3	92.7	85.7	115.7
Vehicles					
Acquisitions	29.7	28.1	21.2	26.7	28.2
Disposals	10.0	9.5	8.8	11.3	9.6
Net	19.7	18.6	12.4	15.4	18.6
Total net capital expenditure	162.6	152.5	114.9	105.0	115.5

TABLE 3

Stocks and work in progress, 1979-1983
All United Kingdom establishments classified to the industry

	£ million				
	1979	1980	1981	1982	1983
3a. Increase during year					
Materials, stores and fuel	61.1	-36.4	-16.8	-21.7	16.9
Work in progress	22.0	-14.6	-3.3	6.2	5.9
Goods on hand for sale	35.4	31.1	-20.6	10.8	16.0
Total	118.5	-19.9	-40.7	-4.7	38.9
3b. Value at end of year					1983
Materials, stores and fuel					326.9
Work in progress					225.5
Goods on hand for sale					303.3
Total					855.7

PA316

TABLE 4

Employment, labour costs, output, net capital expenditure and stocks and work in progress by size of total employment, 1983
All United Kingdom establishments classified to the industry (a)

Size group	Estab-lish-ments	Enter-prises (b)	Employment			Wages and salaries (c)			
			Total, including working proprietors	Opera-tives	Admin-istrative, technical and clerical	Operatives		Administrative, technical and clerical	
						Total	per head	Total	per head
Number	Number	Thousand	Thousand	Thousand	£ million	£	£ million	£	
1-9	3,809	3,770	16.2						
10-19	1,813	1,773	25.4						
20-49	797	777	24.4	60.7	21.6	327.1	5,391	163.2	7,555
50-99	263	252	18.6						
100-199	159	141	21.7	16.0	5.6	84.8	5,283	42.6	7,578
200-299	65	62	15.6	11.4	4.1	63.4	5,540	30.6	7,434
300-399	25	21	8.4	5.8	2.6	35.4	6,088	20.6	7,859
400-499	14	14	6.2	4.5	1.8	27.3	6,105	13.9	7,883
500-749	24	18	14.9	11.1	3.9	75.6	6,822	35.4	9,180
750-999	12	10	10.2	7.5	2.7	48.3	6,463	21.7	8,099
1,000 plus	14	10	19.0	13.4	5.7	93.5	6,998	60.5	10,631
Total	6,995	6,595	180.6	130.4	47.9	755.4	5,794	388.4	8,102

- (a) Establishments employing fewer than 20 persons are not required to complete census returns. Because of this, data for these establishments 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 establishments shown in each size group. Because an enterprise may own establishments 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 £181.3 million. The remuneration of outworkers on returns received - also excluded from the table - was £966 thousand.
- (d) Gross value added data relates to establishments employing 1-199.

Total sales and work done	Gross output	Net output		Gross value added at factor cost		Net capital expenditure	Total stocks and work in progress at end of year
		Total	per head	Total	per head		
1,993.5	2,013.0	981.5	11,605	(d)	(d)	60.7	357.9
538.7	538.9	255.5	11,796	1,000.8(d)	9,415(d)	15.6	99.0
441.3	450.7	209.1	13,427	173.5	11,141	12.1	86.1
275.1	273.9	104.5	12,383	86.8	10,280	7.1	49.4
199.2	200.4	91.8	14,738	73.9	11,870	1.3	40.1
548.3	547.9	226.0	15,130	191.4	12,810	17.8	85.2
265.8	264.3	128.1	12,617	103.0	10,144	9.1	44.0
594.2	589.0	280.2	14,708	218.2	11,456	-8.3	94.0
4,856.1	4,878.0	2,276.7	12,605	1,847.5	10,229	115.5	855.7

TABLE 5

PA316

Percentage analysis of twelve-month periods covered by returns received for the 1983 Census by number of returns and total employment

Accounting year ended	Percentage of total returns received	Percentage of total employment
1983 6-30 April	4.0	2.4
May	2.7	1.1
June	5.4	3.2
July	5.4	4.0
August	2.2	1.0
September	6.4	3.6
October	3.9	2.3
November	1.8	3.0
December	42.6	45.3
1984 January	2.4	1.9
February	0.3	0.1
1 March-5 April	23.0	32.0

TABLE 6

Operating ratios, 1979-1983
All United Kingdom establishments classified to the industry

	Unit	1979	1980	1981	1982	1983
Gross output per head	£	17,248	19,037	20,402	24,032	27,009
Net output per head	£	8,013	8,446	9,537	11,443	12,605
Gross value added per head	£	6,911	7,080	7,893	9,359	10,229
Gross value added as a percentage of gross output	%	40	37	38	39	38
Ratio of gross output to stocks		4.8	5.0	5.0	5.4	5.7
Wages and salaries as a percentage of gross value added	%	57	66	67	62	62
Ratio of operatives to administrative, technical and clerical employees		3.1	3.0	2.8	2.7	2.7
Wages and salaries per operative	£	3,757	4,388	4,847	5,403	5,794
Wages and salaries per administrative, technical and clerical employee	£	4,958	5,940	6,683	7,343	8,102
Net capital expenditure per head	£	669	669	575	558	639
Net capital expenditure as a percentage of gross value added	%	10	9	7	6	6

© Crown Copyright 1985

Her Majesty's Stationery Office

Government Bookshops

49 High Holborn, London WC1V 6HB
13a Castle Street, Edinburgh EH2 3AR
Princess Street, Manchester M60 8AS
Southey House, Wine Street, Bristol BS1 2BQ
258 Broad Street, Birmingham B1 2HE
80 Chichester Street, Belfast BT1 4JY

*Government publications are also available
through booksellers*

'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, Business Statistics Office, Government Buildings, Cardiff Road, Newport, Gwent NP9 1XG.'