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Hand tools and finished metal goods



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BUSINESS MONITORS

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PA316

BUSINESS MONITOR

A publication of the Government Statistical Service

Report on the Census of Production 1987

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

The following is the list of Business Monitors making up the complete census report.

Shown alongside each title, where appropriate, is an indication of the change in the estimated employment in that industry that has arisen, between 1983 and 1984, from the introduction of a new, more up to date, register of businesses. The change shown reflects the increase or decrease between the old and new registers at a fixed point in time and does not in itself give any indication of the growth or contraction within any industry between 1983 and 1984. Over all manufacturing industry there was an increase between the two registers of 1.3%. Changes for individual industries have arisen not only from the addition of extra, mainly small, businesses but also from the reclassification of some small businesses from one industry to another.

Since estimates of census variables, based on register employment, are made for small businesses which are not required to complete census forms, the change will affect much of the data contained in the reports. This should be taken into account in interpreting the figures.

Employment variation PA1001 Introductory notes PA111 Coal extraction and manufacture of solid fuels PA120 Coke ovens Extraction of mineral oil and natural gas PA130 Mineral oil processing PA140 PA161 Production and distribution of electricity PA162 Public gas supply PA170 Water supply industry PA210 Extraction and preparation of metalliferous ores 38 PA221 Iron and steel industry PA222 Steel tubes PA223 Drawing, cold rolling and cold forming of steel 0 PA224 Non-ferrous metals industry PA231 Extraction of stone, clay, sand and gravel -18Extraction of miscellaneous minerals (including salt) PA239 -6 PA241 Structural clay products PA242 Cement, lime and plaster 0 PA243 Building products of concrete, cement or plaster PA244 Asbestos goods PA245 Working of stone and other non-metallic minerals -2 PA246 Abrasive products PA247 Glass and glassware PA248 Refractory and ceramic goods PA251 Basic industrial chemicals PA255 Paints varnishes and printing ink PA256 Specialised chemical products mainly for industrial and agricultural purposes PA257 Pharmaceutical products PA258 Soap and toilet preparations PA259 Specialised chemical products mainly for household and office use PA260 Production of man made fibres PA311 Foundries PA312 Forging, pressing and stamping PA313 Bolts, nuts, etc; springs; non-precision chains; metals treatment PA314 Metal doors, windows etc PA316 Hand tools and finished metal goods PA320 Industrial plant and steelwork PA321 Agricultural machinery and tractors Metal-working machine tools and engineers' tools PA322 PA323 Textile machinery Machinery for the food, chemical and related industries; process engineering contractors PA324 PA325 Mining machinery, construction and mechanical handling equipment PA326 Mechanical power transmission equipment PA327 Machinery for printing, paper, wood, leather, rubber, glass and related industries; laundry and dry cleaning machinery PA328 Miscellaneous machinery and mechanical equipment PA329 Ordnance, small arms and ammunition 0 PA330 Manufacture of office machinery and data processing equipment PA341 Insulated wires and cables PA342 Basic electrical equipment PA343 Electrical equipment for industrial use, and batteries and accumulators PA344 Telecommunication equipment, electrical measuring equipment, electronic capital goods and passive electronic components PA345 Miscellaneous electronic equipment PA346 Domestic-type electric appliances 13 Electric lamps and other electric lighting equipment PA351 Motor vehicles and their engines 0 PA352 Motor vehicle bodies, trailers and caravans -3

BUSINESS MONITORS MAKING UP THE COMPLETE CENSUS REPORT (continued)

		Employ
		percent variatio
		variatio
PA353	Motor vehicle parts	-2
PA361 PA362	Shipbuilding and repairing	0
PA362	Railway and tramway vehicles	0
PA364	Cycles and motor cycles Agrospace equipment manufacturing and repairing	0
PA365	Aerospace equipment manufacturing and repairing Miscellaneous vehicles	0
PA371	Measuring, checking and precision instruments and apparatus	2
PA372	Medical and surgical equipment and orthopaedic appliances	4
PA373	Optical precision instruments and photographic equipment	-8 1
PA374	Clocks, watches and other timing devices	0
PA411	Organic oils and fats	1
PA412	Slaughtering of animals and production of meat and by-products	ebulaxe e
PA413	Preparation of milk and milk products	-5
PA414	Processing of fruit and vegetables	0
PA415	Fish processing	-4
PA416	Grain milling	-7
PA419	Bread, biscuits and flour confectionery	14
PA420	Sugar and sugar by-products	0
PA421	Ice-cream, cocoa, chocolate and sugar confectionery	-2
PA422	Animal feeding stuffs	-5
PA423	Starch and miscellaneous foods	2
PA424	Spirit distilling and compounding	0
PA426	Wines, cider and perry	2
PA427	Brewing and malting	0
PA428	Soft drinks	-1
PA429	Tobacco industry	0
PA431	Woollen and worsted industry	-2
PA432	Cotton and silk industries	3
PA433	Throwing, texturing, etc. of continuous filament yarn	-3
PA434 PA435	Spinning and weaving of flax , hemp and ramie	-3
PA436	Jute and polypropylene yarns and fabrics	0
PA437	Hosiery and other knitted goods Textile finishing	3
PA438	Carpets and other textile floorcoverings	3
PA439	Miscellaneous textiles	1
PA441	Leather (tanning and dressing) and fellmongery	3
PA442	Leather goods	-5
PA451	Footwear	8 2
PA453	Clothing, hats and gloves	7
PA455	Household textiles and other made-up textiles	-2
PA456	Fur goods	-27
PA461	Sawmilling, planing, etc. of wood	-17
PA462	Manufacture of semi-finished wood products and further processing and treatment of wood	_4
PA463	Builders carpentry and joinery	-5
PA464	Wooden containers	-6
PA465	Miscellaneous wooden articles	4
PA466	Articles of cork and plaiting materials, brushes and brooms	7
PA467	Wooden and upholstered furniture and shop and office fittings	-1
PA471	Pulp, paper and board	1
PA472	Conversion of paper and board	3
PA475	Printing and publishing	5
PA481	Rubber products	-1
PA483	Processing of plastics	2
PA491	Jewellery and coins	1
PA492	Musical instruments	-5
PA493	Photographic and cinematographic processing laboratories	
PA494	Toys and sports goods	-1
PA495 PA500	Miscellaneous manufacturing industries	67
PA1002	Construction	

The information in this report relates to businesses 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 hollowere 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 £3.95.

In interpreting the data in the tables it is essential to bear in mind the notes and definitions which commence on page 7.

LIST OF CONTENTS

		rage
ory notes and definitions		7–9
Output and costs, 1983-1987		10
Capital expenditure, 1983—1987		11
Stocks and work in progress, 1983-1987	The questions referring to comparery, inclusively allegantiques.	11
Employment, labour costs, output, net capital expe work in progress by size of total employment, 1987	nditure and stocks and	12–1
Percentage analysis of twelve-month periods covered for the 1987 Census by number of returns and total	d by returns received employment	14
Operating ratios, 1983—1987	interpretar applianted in our	14
Regional distribution of employment, net capital ex and gross value added at factor cost, 1987	spenditure, net output	15
Output and costs by activity heading, 1987		16-1
Capital expenditure by activity heading, 1987		18–19
Stocks and work in progress by activity heading, 19	87	18–19
Operating ratios by activity heading, 1987		20
	Output and costs, 1983—1987 Capital expenditure, 1983—1987 Stocks and work in progress, 1983—1987 Employment, labour costs, output, net capital expework in progress by size of total employment, 1987 Percentage analysis of twelve-month periods covered for the 1987 Census by number of returns and total Operating ratios, 1983—1987 Regional distribution of employment, net capital exand gross value added at factor cost, 1987 Output and costs by activity heading, 1987 Capital expenditure by activity heading, 1987 Stocks and work in progress by activity heading, 19	Capital expenditure, 1983–1987 Stocks and work in progress, 1983–1987 Employment, labour costs, output, net capital expenditure and stocks and work in progress by size of total employment, 1987 Percentage analysis of twelve-month periods covered by returns received for the 1987 Census by number of returns and total employment Operating ratios, 1983–1987 Regional distribution of employment, net capital expenditure, net output and gross value added at factor cost, 1987 Output and costs by activity heading, 1987 Capital expenditure by activity heading, 1987 Stocks and work in progress by activity heading, 1987

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 £3.95.

REPORTING UNIT

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

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

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

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

THE REGISTER

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

8. The Annual Census and other inquiries provide a major source of information for updating and checking the register. For businesses on the register making returns to the Quarterly Sales Inquiry, industrial classification is reviewed annually and is derived from an analysis of their commodity sales. Employment data are provided by the Quarterly Sales Inquiry and the Census of Production. Where businesses 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

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

10. Under the sampling arrangements agreed for the 1987 Census, forms were despatched to all businesses with 100 or more employed and, for most production industries, samples of 1 in 4 and 1 in 2 respectively being taken for businesses in the 20 to 49 and 50 to 99 employment size bands. It was necessary to increase the sample in those industries where there were few business in the sample size band or where response in earlier years was poor. About 16,200 forms were despatched in the United Kingdom for the 1987 Census.

PERIOD COVERED

11. Businesses were asked to make returns for the calendar year 1987 but, where this was not possible, returns for business years ending between 6 April 1987 and 5 April 1988 were accepted. Returns covering fewer than twelve months were accepted for businesses which had started or ceased trading during the year.

ESTIMATION

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

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

14. 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 businesses 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 businesses 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.

15. 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

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

"The following provisions shall have effect with respect to any report, summary or other communication to the public of information obtained under the foregoing provisions of this Act —

in compiling any such report, summary or communication the competent authority shall so arrange it as to prevent any particulars published therein from being identified as being particulars relating to any individual person or undertaking except with the previous consent in writing of that person or the person carrying on that undertaking, as the case may be; but this provision shall not prevent the disclosure of the total quantity or value of any articles produced, sold or delivered; so, however, that before disclosing any such total the competent authority shall have regard to any representations made to them by any person who alleges that the disclosure thereof would enable particulars relating to him or to an undertaking carried on by him to be deduced from the total disclosed."

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

CHANGES MADE FOR 1987

18. The 1987 Census, like that for 1986, was a slimline one. The questions relating to computers, included in the 1986 Census, were discontinued.

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

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

EXPLANATION OF TERMS USED IN THE CENSUS REPORT

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

CAPITAL EXPENDITURE

This represents the value charged to capital account together with any other amounts which ranked as capital items for taxation purposes during the year to which each return related. 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 USE WITHIN THE BUSINESS by its 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

23. This represents the value of freeholds and the value or premium payable or receivable for leaseholds acquired or disposed 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 The figures include architects' and surveyors' fees, lega fees, stamp duties, agents' commissions and Land Registry fees

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

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

COST OF NON-INDUSTRIAL SERVICES RECEIVED

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 and on materials and fuel imported are excluded.

EMPLOYERS' NATIONAL INSURANCE CONTRIBUTIONS ETC. 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 casua employees such as jobbers are excluded. The average number of employees returned by individual businesses may have been calculated by, for example, the average of the number of employees on the payroll for the last week of each calendar month.

> ADMINISTRATIVE, TECHNICAL AND CLERICAL EMPL OYEES

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.

h OPERATIVES

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

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 commis-Part-time directors paid by fee only and directors who received a definite wage, salary or commission are excluded.

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

GROSS OUTPUT

This is calculated by adjusting the value of TOTAL SALES AND WORK DONE by the changes during the year of 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. estimate of gross value added approaches more closely than NET OUTPUT the definition of net output or value added in national

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

NET CAPITAL EXPENDITURE

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

NET OUTPUT

This is calculated by deducting from GROSS OUTPUT the cost of PURCHASES OF MATERIALS FOR USE IN PRODUCT-ION AND PACKAGING AND FUEL and PURCHASES OF GOODS FOR MERCHANTING OR FACTORING the COST OF INDUST-RIAL 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

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 the provision of transport to other organisations. It also includes revenue from staff facilities such as canteens.

OPERATING RATIOS

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

PURCHASES OF MATERIALS FOR USE IN PRODUCTION, AND PACKAGING AND FUEL. PURCHASES OF GOODS FOR MERCHANTING OR FACTORING

These include the cost of raw materials, components, semimanufactured 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 EXPEND-ITURE, 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. f 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

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

SALES OF GOODS PRODUCED

45. This represents sales of goods during the year, irrespective of whether or not they were produced in the year of the return. It also includes sales of goods made from materials given out to other firms or to outworkers and sales of waste products and residues. The value of sales is the 'net selling value', ie the amount charged to customers whether valued 'ex-works' or 'delivered' less VAT, trade discounts, agents' commissions etc and allowances on returned goods. Where products attract Excise duty, the value includes duty f 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 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.

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

WAGES AND SALARIES

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

WORK DONE AND INDUSTRIAL SERVICES RENDERED

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 ncluded. For certain industries this heading covers a wide variety of activities, for example, butter packed on commission in the food industries, making up of garments, fur dressing and textile finishing in the textile industries, and preparatory work on typesetting, block making and binding in the printing and publishing industries. Work done is an important part of the activities of the electrical machinery and heavy engineering industries, and includes erection, installation and repair and jobbing work.

WORK IN PROGRESS

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

TABLE 1

Output and costs, 1983-1987 All United Kingdom businesses classified to the industry (a)

1 The natural definitions given to the	Unit	1983	1984	1985	1986	1987
	-		PO SERVICE PARK		n r <u>eek sentu</u> d ek C. pempeu	adi <u>ni, basa ata</u> sal baligaus apo
Enterprises	Number	6,595	7,408(b)	8,172	8,343	8,447
Businesses	ious Carrier Non-	6,995	7,723(b)	8,507	8,676	8,686
Sales of goods produced	£ million	4, 384. 9	4,651.7	4,989.0	5,408.3	5,767.9
Work done and industrial services rendered		106.8	149.1	128.1	146.5	97.2
Capital goods produced for use within the business	n e	6.4	11.6	9.2	9.2	9.0
Non-industrial services rendered	n .	14.9	16.6	16.3	15.7	15.3
Goods merchanted or factored	0.00	343.0	355.8	368.2	400.0	472.1
Total sales and work done		4,856.1	5,184.8	5,510.8	5,979.8	6,361.6
Increase during the year, work in progress and goods on hand for sale	de wed they	22.0	69.3	28.7	8.0	49.5
Gross output		4,878.0	5,254.2	5,539.5	5,987.8	6,411.2
Purchases of materials for use in production, packaging and fuel	n and a second	2,250.7	2,438.7	2,528.7	2,714.8	2,882.0
Purchases of goods for merchanting or factoring	n n	262.0	276.0	274.5	300.3	365.7
Increase during the year, stocks of materials, stores and fuel	ii ee	16.9	21.0	1.5	14.7	26.7
Cost of industrial services received	WE WELLES	105.5	127.5	136.1	136.1	162.6
Net output		2,276.7	2,432.9	2,601.6	2,851.4	3,027.5
Total employment	Thousand	180.6	175.1(b)	170.6	171.6	166.6
Net output per head	£	12,605	13,891	15,246	16,614	18,177
Cost of non-industrial services received						
Hire of vehicles, plant and machinery	£ million	30.5	32.3	28.1	36.2	37.2
Rents of industrial and commercial buildings	ED 11	28.5	36.8	41.3	41.6	46.5
Commercial insurance premiums	decem extension	20.6	22.1	23.9	28.5	33.6
Bank charges	m .	3.3	4.0	3.9	4.3	4.7
Other non-industrial services	п	295.1	318.7	334.3	382.4	419.0
Licensing of motor vehicles	CE NIZO	2.3	2.4	2.3	2.6	2.4
Rates, excluding water rates	п	48.8	49.2	52.4	57.6	60.4
Gross value added at factor cost	п	1,847.5	1,967.4	2,115.3	2,298.3	2,423.8
many of course states, the posted and						

(a) Satisfactory returns accounted for 60 per cent of employment within the industry in 1987.

Gross value added at factor cost

per head

(b) Use of a new register of businesses for 1984 has affected the number of enterprises and businesses. This has led to the estimated total employment being decreased by 1% in this industry. Estimates for other variables are dependent up. Employment and the change should be taken into account when interpreting the figures in this publication. Further information is given on page 2.

10,229

11,234

TABLE 2

PA316

Capital expenditure, 1983-1987 All United Kingdom businesses classified to the industry

						£ million
al sales Greek (6)	1983	1984	1985	1986	1987	toratous es
Land and buildings			0187	(6)	90 tu u ===== 000 -\$75	
New building work	7.9	13.4	21.6	16.2	14.6	
Land and existing building	gs -doi					
Acquisitions	5.3	12.1	10.2		13.6	
Disposals	32.0	6.5	9.6	5.8	5.0	
Net	-18.7	19.0	22.2	23.6	23.2	
Plant and machinery						
Acquisitions	123.4	158.9	150.9	166.4	203.0	
Disposals	7.7	27.4	11.2	12.6	11.0	
Net	115.7	131.5	139.7	153.8	192.0	
Vehicles						
Acquisitions	28.2	39.5	34.4	35.1	36.7	
Disposals	9.6	13.9	11.1	15.0	15.7	
Net	18.6	25.6	23.4	20.1	21.0	
Total net capital expen	diture 115.5	176.0	185.3	197.5	236.2	

PA316

TABLE 3

Stocks and work in progress, 1983-1987 All United Kingdom businesses classified to the industry

						£ million
	1983	1984	1985	1986	1987	Value at end of 1987
		Inc	crease during ye	ar		
Materials, stores and fuel	16.9	21.0	1.5	14.7	26.7	355.9
Work in progress	5.9	31.4	13.7	11.3	17.3	269.7
Goods on hand for sale	16.0	37.9	15.0	-3.3	32.3	375.1
Total	38.9	90.3	30.2	22.7	76.2	1,000.7

11

13,391

12,396

14,552

TABLE 4

Employment, labour costs, output, net capital expenditure and stocks and work in progress by size of total employment, 1987

All United Kingdom businesses classified to the industry (a)

Size group	Busin- esses	Enter- prises (b)	Employment	6, 535	2, 208	Wages and s	salaries (c)		
			Total	Opera-	Administr-	Operatives		Administra	
			including working proprietors	tives	ative,tech- nical and clerical			technical a clerical	nd bead
						Total	per head	Total	per head
	Number	Number	Thousand	Thousand	Thousand	£ million	£	£ million	£.
1-9	6, 121	6,095	17.9)						
10-19	1, 187	1, 180	17.0	56.2	20.6	410.6	7,312	221.0	10,700
20-49	769	764	23.9	30.2	20.0	410.0	,,0.2	M2.4	tato hav
50-99	311	299	21.6)						
100-199	157	138	21.9	15.6	6.3	113.0	7,260	66.7	10,546
200-299	67	64	16.3	11.8	4.5	89.3	7,555	46.2	10,346
300-399	18	18	6.3	4.6	1.7	37.8	8,228	19.9	11,504
400-499	14	11	6.1	4.4	1.7	38.1	8,725	20.7	12,028
500-749	20	13	12.6	9.4	3.2	86.6	9,244	40.2	12,436
750-999	11	10	9.3	7.0	2.4	67.2	9,635	30.0	12,743
1,000-Plus	11	10	13.7	9.7	3.9	83.1	8,525	47.1	12,030

Total	8,686	8,447	166.6	118.6	44.4	925.6	7,806	491.6	11,077

⁽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.

PA		

la:	iot to seatow	No.	24	nuter latest to epor	Patoan	and the second	unting year onder
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	Total	per		
			head		head		
million	£ million	£ million	£	£ million	f	£ million	£ million
2,626.6	2,637.7	1,290.8	16,052	(d)	(d)	85.0	397.4
829.0	022.2	204.7		1 220 2(4)	10 004(4)	10 7	
	832.3	394.7	18,037	1,326.2(d)	12,964(d)	28.7	138.1
640.9	649.2	306.0	18,802	245.7	15,098	23.1	109.9
259.2	261.1	122.0	19,317	99.6	15,772	10.8	43.2
278.8	280.7	131.0	21,538	110.7	18,201	16.5	45.8
651.3	657.1	261.0	20,711	208.4	16,532	24.8	93.9
412.7	416.1	204.3	21,903	175.2	18,780	14.7	70.5
663.2	677.0	8 317.6	23,252	258.0	18,888	32.7	102.0

2,423.8

14,552

236.2

1,000.7

6,361.6

6,411.2

3,027.5

⁽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 £187.3 million. The remuneration of outworkers on returns received - also excluded from the table - was £802 thousand.

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

TABLE 7

Percentage analysis of twelve-month periods covered by returns received for the 1987 Census by number of returns and total employment

Accounting year ended		Percentage of total r received	eturns	Percentage of total employment		
1987	April 6-30	3.6		1.6	996	
	May	2.8		2.7		
	June	7.0		4.4		
	July	4.0		2.7		
	August	4.2		1.7		
	September	7.4		5.1		
	October	4.5		4.6		
	November	3.1		5.1		
	December	38.1		39.4		
1988	January	3.4		4.9		
	February	2.7		1.0		
	1 March - 5 April	19.2		26.8		

TABLE 6

Operating ratios, 1983-1987

All United Kingdom businesses classified to the industry

	Unit	1983	1984	1985	1986	1987
ross output per head	£	27,009	30,000	32,463	34,888	38,491
et output per head	f	12,605	13,891	15,246	16,614	18, 177
ross value added per head	f	10,229	11,234	12,396	13,391	14, 552
ross value added as a percentage of ross output	%	38	37	38	38	38
atio of gross output to stocks		5.7	5.8	6.0	6.4	6.4
lages and salaries as a percentage of ross value added	%	62	62	60	59	59
atio of operatives to administrative, chnical and clerical employees		2.7	2.8	2.7	2.7	2.7
ages and salaries per operative	f.	5,794	6,394	6,823	7,289	7,806
lages and salaries per administrative, chnical and clerical employee	£	8, 102	8,830	9,466	10,286	11,077
et capital expenditure per head	f	639	1,005	1,086	1, 151	1,418
let capital expenditure as a percentage f gross value added	%	6	9	9	9	10

Regional distribution of employment, net capital expenditure, net output and gross value added at factor cost, 1987 All United Kingdom businesses classified to the industry

Area		ompio/mont		expend	Net capital Net outp			added at		
		(a)	(a)		(b)				factor cost (c)	
1,81981	a.60034	1.0	3.075	5A0.0	nomers 2	1911	g Be	ous produc	OR THE SPINS	
		Thousand	d per cent of United Kingdom	f million	per cent of United Kingdom	f million	per cent of United Kingdom	f million	per cent of United Kingdom	
Standard regions of En	igland									
North		4.8	2.9	8.6	3.6	95.4	3.2	69.6	2.9	
Yorkshire and Humberside		20.6	12.3	23.5	9.9	341.4	11.3	279.1	11.5	
East Midlands		12.2	7.3	17.6	7.4	257.4	8.5	216.3	8.9	
East Anglia		3.6	2.2	5.6	2.4	82.0	2.7	69.4	2.9	
South East		36.3	21.8	62.2	26.3	692.7	22.9	546.1	22.5	
South West		9.3	5.6	11.7	5.0	178.2	5.9	139.6	5.8	
West Midlands		46.8	28.1	59.5	25.2	771.8	25.5	621.3	25.6	
North West		17.1	10.3	22.3	9.4	300.3	9.9	234.8	9.7	
England	6.0	150.6	90.4	210.9	89.3	2,719.3	89.8	2, 176. 1	89.8	
Wales		7.7	4.6	*	*	166.0	5.5	135.0	5.6	
Scotland	f , b _ 10	6.9	4.2	10.5	4.4	120.6	4.0	96.0	4.0	
Great Britain		165.2	99.2	19,243.	*	3,005.9	99.3	2,407.1	99.3	
Northern Ireland		1.4	0.8	*	*	21.6	0.7	16.7	0.7	
United Kingdom	1.1	166.6	100.0	236.2	100.0	3,027.5	100.0	2,423.8	100.0	

- (a) Average number employed during the year, including full and part-time employees and working proprietors.
- (b) New building work plus acquisitions less disposals of land and existing buildings, vehicles and plant and machinery.
- (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.

Output and costs, 1987
All United Kingdom businesses classified to each Activity Heading within the industry

	Unit		3161		3162	3163
Enterprises(a)	Number	Met cap	345	Total	94	113
Businesses	10.8		355		98	118
Sales of goods produced	£ million		270.7		105.6	84.8
Work done and industrial services rendered	Joes seq t.lb barieU		0.3		-	-
Capital goods produced for use within the business	mobile (0.2			_
Non-industrial services rendered	"		0.3		bn •	enorger oregone
Goods merchanted or factored	0.23		40.1		26.2	0.9
Total sales and work done	3.1		311.5		133.2	85.8
Increase during the year, work in			9.7			East Midlands
progress and goods on hand for sale	7.		3.4		3.0	1.3
Gross output	911.5		314.9		136.2	87.1
Purchases of materials for use in pro- duction, packaging and fuel	26.3		114.8		34.3	42.6
Purchases of goods for merchanting or factoring	50.05		28.1		21.9	0.6
ncrease during the year, stocks of materials, stores and fuel	8.8 "		-3.6		0.9	0.2
Cost of industrial services	89.3		5.1		1.4	1.6
Net output	n		163.3		79.5	42.6
Total employment	Thousand	1061	9.2		4.1	2.2
Net output per head	£		17,793		19,417	19,719
Cost of non-industrial services received						
Hire of vehicles, plant and machinery	£ million		1.6		1.1	0.3
Rents of industrial and commercial buildings			1.7		0.5	0.1
Commercial insurance premiums	qui e envir :		1.5		0.6	0.4
Bank charges	ibliad gefrei		0.4		0.1	0.1
Other non-industrial services			18.4		18.7	5.3
icensing of motor vehicles	emitze ne a		0.1		bershoo m	everbos sono
Rates, excluding water rates	or segments		3.4		1.2	0.9
Gross value added at factor cost	u		136.1		57.3	35.5
Gross value added at factor cost per head	£		14,837		14,004	16,413

⁽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.

3164	3165	3166	3167	3169
393	102	481	320	6,671
425	109	493	322	6,766
1,557.5	334.4	640.0	191.0	2,583.9
12.2	1.6	14.5	0.8	68.6
2.4	₹ 0	0.4	0.1	4.5
8.0	*	0.9	0.4	5.3
115.0	6.3	62.8	15.4	205.2
1,695.1	342.6	718.7	206.9	2,867.7
21.5	-1.0	7.2	1.7	12.5
1,716.7	341.6	725.9	208.6	2,880.2
958.5	168.2	304.8	89.5	1,169.5
6.0	5.7 g.o	2.0		Disposals Services
98.6	4.8	45.2	11.3	155.2
4.9	-0.7	3.6	1.8	19.5
20.1	7.3	19.3	4.1	103.7
644.4	160.7	360.2	105.6	1,471.2
26.7	10.4	18.7	6.1	89.3
24,139	15,531	19,242	17,444	16,473
8.2	1.2	6.2	1.3	17.3
9.5	1.3	7.7	0.9	24.9
6.3	1.2	4.2	1.3	18.0
0.5	0.1	0.5	0.2	2.7
85.0	24.2	56.3	17.0	194.1
0.4	0.1	0.6	0.1	10. S SERVICE 1, 1 81018
11.6	3.0	8.0	2.2	30.10000
522.8	129.6	276.8	82.5	1,183.1
19,586	12,526	14,787	13,630	13,247

TABLE 9

Capital expenditure, 1987
All United Kingdom businesses classified to each Activity Heading within the industry

2010	3161	3162	3163
Land and buildings	November 185	102	28818
New building work	0.2	901 888	87825
Land and existing buildings			
Acquisitions	0.6	*	=12.2
Disposals	0.3	0.7	0.5
Net	0.5	-0.1	-0.4
Plant and machinery			
Acquisitions	12.3	5.7	1.3
Disposals	0.3	0.3	0.1
Net Vehicles	11.9	5.4	1.2
Acquisitions	1.2 408	0.5	0.7
Disposals	0.3	0.3	0.3
Net	0.9	0.2	0.4
Total net capital expenditure	13.3	5.5	1.2

TABLE 10

Stocks and work in progress, 1987
All United Kingdom businesses classified to each Activity Heading within the industry

4 4		3161	3162	3163
	-			5.97
10a Increase during year				
Materials, stores and fuel		-3.6	0.9	0.2
Work in progress		0.1	1.0	1.1
Goods on hand for sale		3.2	3.0	0.2
Total		-0.2 373	3.9	1.5
Cross value action at factor cont. DED, CF		\$85.84 145.837	929161669	7808.3
10b Value at end of year				
Materials, stores and fuel		19.6	6.9	4.7
Work in progress		17.8	4.6	3.5
Goods on hand for sale		30.0	12.7	2.7
Total		67.4	24.2	10.8

	m		

3169	3167	3166	3165	3164
4.2	*	3.6	0.1	6.1
8.7	0.5	2.2	0.1	*
2.9	*	0.2	-	*
10.0	0.5	5.6	0.2	7.0
84.7	5.8	21.3	10.6	61.4
6.5	0.4	0.6	0.3	2.4
78.3	5.5	20.7	10.2	58.9
21.9	1.3	8.0	1.0	2.1
9.2	0.8	3.0	0.7	1.1
12.7	0.5	4.9	0.3	1.0
101.0	6.4	31.1	10.8	67.0

	ion

3169	3167	3166	3165	3164
19.5	1.8	3.6	-0.7	4.9
10.9	1.3	0.6	-	3.1
1.6	0.4	6.5	-1.0	18.4
31.9	3.5	10.8	-1.7	26.5
168.3	16.4	38.8	17.4	83.7
143.3	10.2	32.6	16.7	41.2
159.6	16.9	39.2	22.4	91.5
471.2	43.5	110.6	56.5	16.4

TABLE 11

PA316

Operating ratios, 1987

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

Unit	3161	3162	3163	3164
£	34, 318	33, 264	40,310	64,309
£	17,793	19, 417	19,719	24, 139
£	14,837	14,004	16,413	19,586
%	43	42	41	31
	4.7	5.6	8.1	7.9
%	55	58	55	52
	2.8	2.6	3.4	3.4
£	7,526	6, 266	8,493	9,368
£	10, 432	13,208	11,511	12,947
£	1, 448	1,339	547	2,509
%	10	10	3	13
	f f f f %	£ 34,318 £ 17,793 £ 14,837 % 43 4.7 % 55 2.8 £ 7,526 £ 10,432 £ 1,448	£ 34,318 33,264 £ 17,793 19,417 £ 14,837 14,004 % 43 42 4.7 5.6 % 55 58 2.8 2.6 £ 7,526 6,266 £ 10,432 13,208 £ 1,448 1,339	£ 34,318 33,264 40,310 £ 17,793 19,417 19,719 £ 14,837 14,004 16,413 % 43 42 41 4.7 5.6 8.1 % 55 58 55 2.8 2.6 3.4 £ 7,526 6,266 8,493 £ 10,432 13,208 11,511 £ 1,448 1,339 547

TABLE 11
Operating ratios, 1987

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

	Unit	3165	3166	3167	3169
Gross output per head	£	33,008	38,777	34, 463	32,248
Net output per head	£	15,531	19, 242	17,444	16,473
Gross value added per head	£	12,526	14, 787	13,630	13,247
Gross value added as a percentage of gross output	%	38	38	40	41
Ratio of gross output to stocks		6.0	6.6	4.8	6.1
Wages and salaries as a percentage of gross value added	%	67	64	56	60
Ratio of operatives to administrative, technical and clerical employees		2.8	2.0	3.4	2.6
Wages and salaries per operative	£	7,844	8,562	6,713	7,304
Wages and salaries per administrative, technical and clerical employee	£	9, 962	11,309	11,390	10,608
Net capital expenditure per head	£	1,039	1,663	1,062	1, 131
Net capital expenditure as a percentage of gross value added	%	8.00	11	7 4 22 8	9



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