BUSINESS STATISTICS OFFICE

PA316 1986

"STATISTICS" READING ROOM

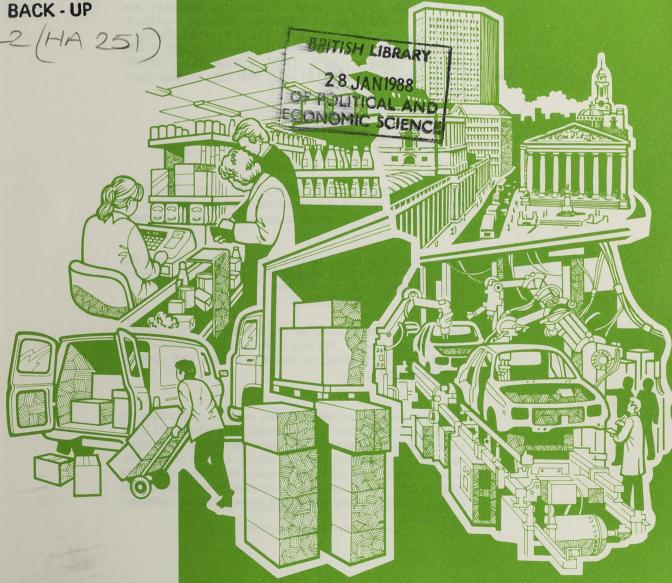
42 (HA 251)

STATISTICS BACK - UP

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 a great deal of the statistical data required by Government for monitoring the economy.

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

Full details of the range of Business Monitors are available in the form of a Business Monitor brochure, which can be obtained from the Librarian, Business Statistics Office, Government Buildings, Cardiff Road, Newport, Gwent, NP9 1XG. Telephone (0633) 2222973. Telex 497121 and 497122; answer back BSONPT G.

Standing Order Service

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

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

For details please write to HMSO Books (PC 13A/1), Publications Centre, PO Box 276, London SW8 5DT (or telephone 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 1986

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, units but also from the reclassification of some small units from one industry to another.

Since estimates of census variables, based on register employment, are made for small establishments 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 percentage variation

PA1001	Introductory notes	
PA111	Coal extraction and manufacture of solid fuels	
PA120	Coke ovens	
PA130	Extraction of mineral oil and natural gas	
PA140	Mineral oil processing	
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	-1
PA222	Steel tubes	1
PA223	Drawing, cold rolling and cold forming of steel	-2
PA224	Non-ferrous metals industry	0
PA231	Extraction of stone, clay, sand and gravel	-18
PA239	Extraction of miscellaneous minerals (including salt)	-6
PA241	Structural clay products	-1
PA242	Cement, lime and plaster	0
PA243	Building products of concrete, cement or plaster	-9
PA244	Asbestos goods	0
PA245	Working of stone and other non-metallic minerals	-2
PA246	Abrasive products	-6
PA247	Glass and glassware	2
PA248	Refractory and ceramic goods Basic industrial chemicals	0
PA251 PA255		1
PA256	Paints, varnishes and printing ink Specialised chemical products mainly for industrial and agricultural purposes	1
PA257	Pharmaceutical products	1
PA258	Soap and toilet preparations	0
PA259	Specialised chemical products mainly for household and office use	0
PA260	Production of man made fibres	0
PA311	Foundries	-4
PA312	Forging, pressing and stamping	0
PA313	Bolts, nuts, etc; springs; non-precision chains; metals treatment	0
PA314	Metal doors, windows etc	2
PA316	Hand tools and finished metal goods	-1
PA320	Industrial plant and steelwork	4
PA321	Agricultural machinery and tractors	-1
PA322	Metal-working machine tools and engineers' tools	-1
PA323	Textile machinery	0
PA324	Machinery for the food, chemical and related industries; process engineering contractors	2
PA325	Mining machinery, construction and mechanical handling equipment	3
PA326	Mechanical power transmission equipment	14
PA327	Machinery for printing, paper, wood, leather, rubber, glass and related industries; laundry and	
	dry cleaning machinery	-4
PA328	Miscellaneous machinery and mechanical equipment	0
PA329	Ordnance, small arms and ammunition	0
PA330	Manufacture of office machinery and data processing equipment	7
PA341	Insulated wires and cables	2
PA342 PA343	Basic electrical equipment	1
PA343 PA344	Electrical equipment for industrial use, and batteries and accumulators	3
1 A344	Telecommunication equipment, electrical measuring equipment, electronic capital goods and passive electronic components	2
PA345	Missallaneous alastropia aguipment	3
PA346	Domestic-type electric appliances	1
PA347	Electric lamps and other electric lighting equipment	13
PA351	Motor vehicles and their engines	0
PA352	Motor vehicle bodies, trailers and caravans	-3

BUSINESS MONITORS MAKING UP THE COMPLETE CENSUS REPORT (continued)

		percentage variation
PA353	Motor vehicle parts	-2
PA361	Shipbuilding and repairing	0
PA362	Railway and tramway vehicles	0
PA363	Cycles and motor cycles	0
PA364	Aerospace equipment manufacturing and repairing	0
PA365	Miscellaneous vehicles	2
PA371	Measuring, checking and precision instruments and apparatus	4
PA372	Medical and surgical equipment and orthopaedic appliances	-8
PA373	Optical precision instruments and photographic equipment	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	
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 PA431	Tobacco industry	0
PA431	Woollen and worsted industry	-2
PA433	Cotton and silk industries	3
PA434	Throwing, texturing, etc. of continuous filament yarn Spinning and weaving of flax, hemp and ramie	-3
PA435	Jute and polypropylene yarns and fabrics	-3
PA436	Hosiery and other knitted goods	0
PA437	Textile finishing	3
PA438	Carpets and other textile floorcoverings	1
PA439	Miscellaneous textiles	3
PA441	Leather (tanning and dressing) and fellmongery	_5 _5
PA442	Leather goods	-5
PA451	Footwear	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	arougless ture
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	t spenist to
PA494	Toys and sports goods	-1
PA495	Miscellaneous manufacturing industries	67
PA500	Construction	
PA1002	Summary tables	

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 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

			Page
Explanator	y notes and definitions		7–9
Table 1	Output and costs, 1982–1986		10
Table 2	Capital expenditure, 1982–1986		11
Table 3	Stocks and work in progress, 1982–1986		11
Table 4	Employment, labour costs, output, net capital expenditure work in progress by size of total employment, 1986	e and stocks and	12–13
Table 5	Percentage analysis of twelve-month periods covered by refor the 1986 Census by number of returns and total employers.		14
Table 6	Operating ratios, 1982–1986		14
Table 7	Regional distribution of employment, net capital expendit and gross value added at factor cost, 1986	ture, net output	15
Table 8	Output and costs by activity heading, 1986		16-17
Table 9	Capital expenditure by activity heading, 1986		18-19
Table 10	Stocks and work in progress by activity heading, 1986		18–19
Table 11	Operating ratios by activity heading, 1986		20

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. 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

- 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.
- Establishments are asked to exclude from their returns particulars relating to ancillary departments not engaged in production (such as merchanting 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

- 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. 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
- 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

- 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.
- Under the sampling arrangements agreed for the 1986 Census, forms were despatched to all establishments with 100 or more employed and, for most production industries, samples of 1 in and 1 in 2 respectively being taken for establishments in the 20 to 49 and 50 to 99 employment size bands. For industries where there were few units in the sample size band or where response in earlier years was poor, it was necessary to increase the sample. About 16,200 forms were despatched to production establishments in the United Kingdom for the 1986 Census.

PERIOD COVERED

Establishments were asked to make returns for the calendar year 1986 but, where this was not possible, returns for business years ending between 6 April 1986 and 5 April 1987 were accepted. Returns covering fewer than twelve months were accepted for businesses which had started or ceased trading during the year

- All published Census results include estimates for nonresponders, 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.
- 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.
- 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

- 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.
- 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 1986

The 1986 Census, like that for 1985, was a slimline one. Additional questions were asked for numbers of computer employees, costs of computer equipment purchased and, for larger establishments only, costs of hiring, leasing or renting computer equipment.

SYMBOLS USED

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
- 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.

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 constructional work such as the extension and reconstruction of old buildings, and the value of any newly constructed buildings acquired. The figures include architects' and surveyors' fees, legal fees, stamp duties, agents' commissions and Land Registry fees.

c. on PLANT AND MACHINERY, VEHICLES

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 under the Social Sequency Page 2012 Act 1975, compage in insurance

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

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 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

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 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

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

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 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

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 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

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.

PA316

PA316

Output and costs, 1982-1986 All United Kingdom establishments classified to the industry (a)

19 The popular and darke tions given a time manufacture against the restriction of the control o	Unit	1982	1983	1984	1985	1986
Enterprises	Number	6,632	6,595	7,408(b)	8,172	8,343
Establishments		7,049	6,995	7,723(b)	8,507	8,676
Sales of goods produced	f million	4,082.0	4,384.9	4,651.7	4,989.0	5,408.3
Work done and industrial services rendered		82.9	106.8	149.1	128.1	146.5
Capital goods produced for establish ments' own use		6.1	6.4	11.6	9.2	9.2
Non-industrial services rendered	i .	19.9	14.9	16.6	16.3	15.7
Goods merchanted or factored		312.0	343.0	355.8	368.2	400.0
Total sales and work done		4,502.8	4,856.1	5,184.8	5,510.8	5,979.8
Increase during the year, work in progress and goods on hand for sale	BUILDINGS	17.0	22.0	69.3	28.7	8.0
Gross output	•	4,519.9	4,878.0	5,254.2	5,539.5	5,987.8
Purchases of materials for use in production, packaging and fuel	•	2,021.0	2,250.7	2,438.7	2,528.7	2,714.8
Purchases of goods for merchanting or factoring		234.3	262.0	276.0	274.5	300.3
Increase during the year, stocks of materials, stores and fuel		-21.7	16.9	21.0	1.5	14.7
Cost of industrial services received	e de la destación de La destación de la destación de	90.7	105.5	127.5	136.1	136.1
Net output		2,152.1	2,276.7	2,432.9	2,601.6	2,851.4
Total employment	Thousand	188.1	180.6	175.1(b)	170.6	171.6(c)
Net output per head	f	11,443	12,605	13,891	15,246	16,614
Cost of non-industrial services received						
Hire of vehicles, plant and machinery	£ million	23.5	30.5	32.3	28.1	36.2(d)
Rents of industrial and commercial buildings		25.1	28.5	36.8	41.3	41.6
Commercial insurance premiums	·	21.1	20.6	22.1	23.9	28.5
Bank charges		3.0	3.3	4.0	3.9	4.3
Other non-industrial services		268.0	295.1	318.7	334.3	382.4
Licensing of motor vehicles		2.3	2.3	2.4	2.3	2.6
Rates, excluding water rates		48.9	48.8	49.2	52.4	57.6
Gross value added at factor cost		1,760.3	1,847.5	1,967.4	2,115.3	2,298.3
Gross value added at factor cost per head	f	9,359	10,229	11,234	12,396	13,391

(a) Satisfactory returns accounted for 58 per cent of employment within the industry in 1986.

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

(c) Returned figures gave a total of 1,245 employees directly employed for all of their time on computer work. This figure was collected separately for 1986.

(d) Returned figures gave a total of £2,845 thousand for computer and associated data communications equipment. This figure was collected separately for 1986.

Capital expenditure, 1982-1986
All United Kingdom establishments classified to the industry

	1982	1983	1984	1985	1986	
Land and buildings			CEUR CORE	(a)	2236725233	
New building work	6.6	7.9	13.4	21.6	16.2	
Land and existing buildings						
Acquisitions	5.9	5.3	12.1	10.2	13.2	
Disposals	8.6	32.0	6.5	9.6	5.8	
Net	3.9	-18.7	19.0	22.2	23.6	
Plant and machinery						
Acquisitions	97.1	123.4	158.9	150.9	166.4(a)
Disposals	11.4	7.7	27.4	11.2	12.6	
Net 4 900 507 508 8 1 3	85.7	115.7	131.5	139.7	153.8	
/ehicles						
Acquisitions	26.7	28.2	39.5	34.4	35.1	
Disposals	11.3	9.6	13.9	11.1	15.0	
Net	15.4	18.6	25.6	23.4	20.1	
Total net capital expenditure	105.0	115.5	176.0	185.3	197.5	

(a) Returned figures gave a total of £9,452 thousand for computer and associated data communications equipment. This figure was collected separately for 1986.

TABLE 3

TABLE 2

Stocks and work in progress, 1982-1986
All United Kingdom establishments classified to the industry

	1982	1983	1984	1985	1986	Value at end
						of 1986
		In	crease during y	ear		
Materials, stores and fuel	-21.7	16.9	21.0	1.5	14.7	343.3
Work in progress	6.2	5.9	31.4	13.7	11.3	269.2
Goods on hand for sale	10.8	16.0	37.9	15.0	-3.3	328.3
Total	-4.7	38.9	90.3	30.2	22.7	940.8

TABLE 4

Employment, labour costs, output, net capital expenditure and stocks and work in progress by size of total employment, 1986

All United Kingdom establishments classified to the industry (a)

Size group	Estab- lish-	Enter	Employmen	t 882)		Wages and s	salaries (c)		
	ments	(b)							
			Total including	Opera- tives	Administr- ative,tech	Operatives	4,565 (according	Administrat	
			working proprietors		nical and clerical			clerical	
						Total	per head	Total	per head
	Number	Number	Thousand	Thousand	Thousand	f million	f	f million	f
1-9	6,013	5,967	21.0)						
10-19	1,326	1,300	18.5)	58.5	21.1	399.0	6,822	209.4	9,944
20-49	731	/16	23.1)	58.5	21.1	399.0	0,022	209.4	estante.
50-99	293	280	20.5)						
100-199	174	156	24.0	17.3	6.7	117.9	6,806	66.9	10,053
200-299	61	56	14.8	10.6	4.1	76.2	7,173	41.2	9,971
300-399	19	19	6.5	4.3	2.2	31.1	7,203	22.8	10,517
400-499	11	11	4.8	3.5	1.3	26.3	7,585	12.7	9,449
500-749	26	19	16.2	11.9	4.3	104.3	8,754	48.7	11,408
750-999	12	9	10.1	7.1	2.3	64.3	8,312	26.0	11,192
1,000-Plus	10	9	12.3	8.4	3.8	72.4	8,579	43.2	11,269

Total	8,676	8,343	171.6	122.3	45.8	891.5	7,289	470.8	10,286

⁽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.

Total sales	Gross	Net		Gross value	MARKET STATE	Net capital	Total stocks
and work	output	output		added at		expenditure	and work in
done				factor cost			progress at
							end of year
		Total	per	Total	per		
			head		head		
£ million	£ million	£ million	£	f million	f	£ million	£ million
							vánevokí
2,494.1	2,502.6	1,259.6	15, 158	(d)	(d)	84.6	3/4.5
790.1	793.9	388.4	16,198	1,320.0(d)	12,325(d)	36.8	128.8
526.4	525.0	241.3	16,351	191.1	12,948	17.4	92.4
223.0	221.7	109.6	16,886	92.2	14, 197	8.1	38.9
190.2	188.6	90.7	18,870	69.0	14,370	3.5	33.0
865.4	864.3	342.1	21,142	284.5	17,586	21.3	115.1
464.0	465.6	180.7	17,978	155.9	15,510	11.7	71.6
426.4	426.1	239.1	19,479	185.6	15,120	14.3	86.7

5 979 8	5 987 8	2 051 4	10 014	0 000 0		197 5	
0,0.0.0	3,307.0	4,001.4	10,014	2.298.3	13 391	107 5	QAO O

⁽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 £190.6 million. The remuneration of outworkers on returns received—also excluded from the table—was £1,097 thousand.

⁽d) Gross value added data relates to establishments employing 1 199.

TABLE 7

Percentage analysis of twelve-month periods covered by returns received for the 1986 Census by number of returns and total employment

Accounting year ended	Percentage of total re	eturns	Percentage of total			
	received		empl	oyment		
1986 April 6-30	3.4		Italialo	1.9	done	
May	2.6			1.2		
June	5.5			3.7		
July	4.4			2.8		
August	2.9			1.7		
September	7.8			5.9		
October	5.0			3.9		
November	3.5			6.0		
December	37.9			40.0		
1987 January	3.5			4.7		
February	1.7			0.7		
1 March - 5 April	21.8			27.4		

TABLE 6

Operating ratios, 1982-1986

All United Kingdom establishments classified to the industry

	Unit	1982	1983	1984	1985	1986
ross output per head	£	24,032	27,009	30,000	32,463	34,888
et output per head	£	11,443	12,605	13,891	15,246	16,614
ross value added per head	£	9,359	10,229	11,234	12,396	13,391
ross value added as a percentage of ross output	x	39	38	37	38	38
atio of gross output to stocks		5.4	5.7	5.8	6.0	6.4
lages and salaries as a percentage of ross value added	x	62	62	62R	60	59
atio of operatives to administrative, chnical and clerical employees		2.7	2.7	2.8	2.7	2.7
lages and salaries per operative	£	5,403	5,794	6,394R	6,823	7,289
ages and salaries per administrative, echnical and clerical employee	£	7,343	8,102	8,830R	9,466	10,286
et capital expenditure per head	£	558	639	1,005	1,086	1,151
et capital expenditure as a percentage f gross value added	x	6	6	9	9	9

Regional distribution of employment, net capital expenditure, net output and gross value added at factor cost, 1986 All United Kingdom establishments classified to the industry

Area		Total employm (a)	nent	Net cap expendi (b)		Net outp (c)	out	Gross v added a factor c	1
			200					(c)	harling same
E.ER		Thousand	d per cent of United Kingdom	£ million	per cent of United Kingdom	£	per cent of United Kingdom	£ million	per cent of United Kingdom
Standard regions of En	ngland								
North		4.9	2.9	7.9	4.0	84.2	3.0	61.1	2.7
Yorkshire and			1.15				ba sora e	t to banned of I	TOTAL REPORT
Humberside		20.4	11.9	20.5	10.4	314.5	11.0	255.1	11.1
East Midlands		11.2	6.5	15.0	7.6	202.7	7.1	166.2	7.2
East Anglia		3.2	1.9	2.4	1.2	71.3	2.5	61.0	2.7
South East		39.0	22.7	48.2	24.4	671.1	23.5	528.9	23.0
South West		10.1	5.9	10.6	5.3	167.6	5.9	134.3	5.8
West Midlands		47.2	27.5	45.3	22.9	725.1	25.4	591.0	25.7
North West	S. 141	19.3	11.2	26.6	13.4	334.8	11.7	273.9	11.9
Footbad		455.0	00.4	470.0	00.0	2 574 2	00.0	2.074.5	Aleksalek 00. 1
England		155.2	90.4	176.2	89.2	2,571.2	90.2	2,071.5	90.1
Wales		7.8	4.6	9.9	5.0	143.6	5.0	116.6	5.1
Scotland		7.1	4.1	8.9	4.5	114.2	4.0	92.3	4.0
	8.8		9.3		negunal			manaki	HUNTO FORD
Great Britain		170.1	99.1	195.0	98.7	2,829.1	99.2	2,280.4	99.2
Northern Ireland		1.5	0.9	2.5	1.3	22.3	0.8	17.8	0.8
United Kingdom	1.1	171.6	100.0	197.5	100.0	2,851.4	100.0	2,298.3	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 inore regions, an estimate of the net output attributable to each address was made by assuming that net output was proportionate to employment. An estimate for each region was obtained by aggregating estimates of net output for addresses located in that region. Gross value added at factor cost was treated similarly.

TABLE 8

Output and costs, 1986
All United Kingdom establishments classified to each Activity Heading within the industry

	Unit		3161		3162	3163
Enterprises(a)	Number		245			
Establishments	"		345		89	119
			355		94	125
Sales of goods produced	£ million	1	250.1		108.7	93.2
Work done and industrial services rendered	domental machineral		0.2		5 1	
Capital goods produced for establishments' own use			0.2		1.6	Î lo anoiger brebasi
Non-industrial services rendered	0.0		0.5		0.4	o drao¥(
Goods merchanted or factored			21.1		20.5	1.8
Total sales and work done	1.01		272.1		131.2	95.6
Increase during the year, work in						
progress and goods on hand for sale			-4.1		-5.4	-0.3
Gross output	A.AE		268.0		125.9	95.3
Purchases of materials for use in production, packaging and fuel	5.6		100.0		40.8	49.6
Purchases of goods for merchanting or factoring	P. 58		15.1		14.2	abnalbiM tasW
Increase during the year, stocks of						Naith West
materials, stores and fuel	•		-0.1		0.3	-0.2
Cost of industrial services received	0.2		5.9		1.9	1.5
Net output			146.9		69.2	42.9
Total employment	Thousand	d	9.3		4.4	2.3
Net output per head	£		15,729		15,606	18,741
Cost of non-industrial services received	£.)		0.0		13,000	bouted medical
Hire of vehicles, plant and						
machinery 0.000 A.760.3	£ million		1.9		1.1	1.2
Rents of industrial and commercial buildings			1.8		0.6	0.2
Commercial insurance premiums	"		1.5	sex an ha	0.6	0.4
Bank charges	siesd pailes		0.3		0.1	0.1
Other non-industrial services	. 3		19.0		18.7	5.4
Licensing of motor vehicles	to estanoi		0.1		eds ye obsio Se	elical was onta
Rates, excluding water rates			3.2		1.3	total is bebbs
Gross value added at factor cost			119.1		46.8	34.6
Gross value added at factor cost per head	£		12,752		10,555	15,129

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

3169	3167	3166	3165	3164
6,539	313	495	118	414
6,700	318	506	125	453
2,376.4	195.6	562.6	320.3	1,501.4
123.8	•	11.4	1.7	7.9
4.8	0.2	0.2	0.2	2.0
4.3		0.1	0.2	9.9
184.4	13.4	52.5	8.1	98.3
2,693.8	210.2	626.8	330.5	1,619.5
Mussage		10.7	2.4	-4.6
11.5	-2.3	10.7	332.9	1,614.9
2,705.3	208.0	637.6	332.9	1,014.9
1,063.4	85.6	256.3	162.1	957.0
137.3	8.6	38.2	6.0	79.7
8.1	-0.1	2.5	0.6	3.6
81.6	4.7	16.5	7.0	17.0
1,431.0	109.0	329.1	158.4	564.8
93.4	5.9	17.8	10.6	27.9
15,325	18,551	18,448	14,933	20,272
16.5	0.9	6.4	0.9	7.3
21.9	1.0	8.1	0.8	7.2
15.1	1.2	3.5	1.2	5.1
2.4	0.2	0.5	0.1	0.5
170.5	21.3	49.5	23.5	74.5
1.2	0.1	0.6	0.1	0.5
28.2	2.6	7.2	3.0	11.1
1,175.2	81.8	253.3	128.8	458.7
12,585	13,908	14, 198	12,141	16,463

£ million

TABLE 9

Capital expenditure, 1986
All United Kingdom establishments classified to each Activity Heading within the industry

2012	1916		3161	2002	3162	3163
Land and buildings		Maritimes	20%		611	PTP 110
New building work			0.8		125	638 120 -
Land and existing buildings	S					
Acquisitions			0.14		1.1	9. Y
Disposals			•		2.0	2.0
Net			0.8		1.1	e.e -
Plant and machinery						
Acquisitions			5.8		7.3	1.5
Disposals			0.8		0.3	-
Net			5.0		7.0	1.5
Vehicles						
Acquisitions			1.2		0.5	0.5
Disposals			0.6		0.3	0.2
Net			0.6		0.2	0.3
Total net capital expend	iture		6.4		8.3	1.8

TABLE 10

Stocks and work in progress, 1986
All United Kingdom establishments classified to each Activity Heading within the industry

		3161	3162	3163
			1307	100
10a Increase during year				
Materials, stores and fuel		-0.1	0.3	-0.2
Work in progress		-0.4	-1.5	0-0.4
Goods on hand for sale		-3.7	-3.9	far -
Total		-4.2	-5.1	-0.5
. 1486.51	909,87	887, 87 NO. 752	181 21	554,8F 18,128
0b Value at end of year				
Materials, stores and fuel		20.7	8.1	5.7
Work in progress		16.9	5.2	2.7
Goods on hand for sale		24.4	11.7	2.7
Total		61.9	25.1	11.1

3164	3165	3166	3167	3169	
5.1	0.3	5.4	-	4.6	
2.5	0.7	2.2	•	6.1	
0.1	0.1	0.3	•	4.9	
7.5	0.9	7.2	0.3	5.9	
43.9	10.7	16.7	5.5	74.9	
3.5	0.3	0.6	0.3	6.8	
40.4	10.4	16.1	5.2	68.1	

1.0

0.4

0.6

6.1

21.0

9.2

11.8

85.8

6.1

2.1

3.9

27.3

3.2

1.5

1.7

49.6

1.6

0.7

0.9

12.2

£ millio					
	3169	3167	3166	3165	3164
	8.1	-0.1	2.5	0.6	3.6
	5.2	-1.9	10.0	0.9	-0.7
	6.3	-0.4	0.7	1.5	-3.9
	19.6	-2.3	13.3	3.0	-1.0
	154.6	13.8	34.3	17.8	88.4
	138.8	7.6	42.0	15.5	40.5
	146.6	15.6	28.9	23.0	75.5
	439.9	36.9	105.2	56.2	204.5

TABLE 11

PA316

Operating ratios, 1986

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

	Unit	3161	3162	3163	3164
Gross output per head	£	28,694	28,378	41,648	57,960
Net output per head	£	15,729	15,606	18,741	20,272
Gross value added per head	£	12,752	10,555	15,129	16,463
Gross value added as a percentage of gross output	%	44	37	36	28
Ratio of gross output to stocks		4.3	5.0	8.6	7.9
Nages and salaries as a percentage of gross value added	%	62	76	57	55
latio of operatives to administrative, echnical and clerical employees		2.9	2.7	3.1	3.4
Vages and salaries per operative	£	7,397	6,489	8,253	8,386
Vages and salaries per administrative,					
echnical and clerical employee	£	9,716	12,148	10,293	11,677
let capital expenditure per head	£	685	1,871	787	1,779
let capital expenditure as a percentage f gross value added	%	5	18	5	11

TABLE 11

Operating ratios, 1986

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

	Unit	3165	3166	3167	3169
Gross output per head	100cc	31,381	35,742	35,380	28,971
Net output per head	£	14,933	18,448	18,551	15,325
Gross value added per head	£	12,141	14,198	13,908	12,585
Gross value added as a percentage of					
gross output	%	39	40	39	43
Ratio of gross output to stocks		5.9	6.1	5.6	6.1
Wages and salaries as a percentage of					
gross value added	%	65	63	53	59
Ratio of operatives to administrative, technical and clerical employees		2.8	2.0	3.2	2.6
Wages and salaries per operative	£	7,397	8,125	6,555	6,820
Wages and salaries per administrative, technical and clerical employee	f	9,426	10,976	10,554	9,819
Net capital expenditure per head	£	1,149	1,531	1,044	919
Net capital expenditure as a percentage of gross value added	%	10	11 .0.22	8	7

Printed in the United Kingdom by Her Majesty's Stationery Office at Cardiff Dd. 0239530 C4 Cdf 301 12/87

FURTHER BUSINESS MONITOR SERIES

SERVICE AND DISTRIBUTIVE MONITOR SERIES (SD)

It is intended to introduce a new series of annual Monitors towards the end of 1987 covering the following:—

SDA 26 - Wholesaling

SDA 27 — Motor Trades

SDA 28 - Catering and Allied Trades

PRODUCTION MONITORS (PAS)

A completely new series of Production Annual Sales Monitors is being introduced. Until 1986 the four Monitors that initially made up this series were Production Monitors issued quarterly (PQ's).

PAS 1401/1402 - Mineral oil refining, lubricating oils and greases

PAS 2246 — Copper, brass and other copper alloys

PAS 2410 – Structural clay products

PAS 2420 — Cement, lime and plaster

The Monitors will contain six years data (i.e. 1981–86) and will retain the Production quarterly (PQ Monitor) format. This includes a summary, an annual sales, and other supplementary tables (including import and export figures).

For further information telephone or write to:

The Librarian
Business Statistics Office
Cardiff Road
Newport
Gwent
NP9 1XG
Telephone Newport (0633 222973)



HMSO publications are available from:

HMSO Publications Centre

(Mail and telephone orders only)
PO Box 276, London SW8 5DT
Telephone orders (01) 622 3316 (queuing system in operation)
General enquiries (01) 211 5656 (queuing system in operation)

HMSO Bookshops

49 High Holborn, London, WC1V 6HB (01) 211 5656 (Counter service only) 258 Broad Street, Birmingham, B1 2HE (021) 643 3757 Southey House, 33 Wine Street, Bristol, BS1 2BQ (0272) 24306/24307 9—21 Princess Street, Manchester, M60 8AS (061) 834 7201 80 Chichester Street, Belfast, BT1 4JY (0232) 234488 71—73 Lothian Road, Edinburgh, EH3 9AZ (031 228 4181)

HMSO's Accredited Agents (see Yellow Pages)

And through good 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.'

© Crown copyright 1988 First published 1988

SAMMAL S

£5.95 net ISBN 0 11 514760 8



