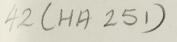
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BUSINESS STATISTICS OFFICE

Business Monitor

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Report on the Census of Production

Hand tools and finished metal goods



A publication of the Government Statistical Service

BUSINESS MONITORS

SPECIAL NOTE FOR PURCHASERS

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

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

The Annual Census of Production Monitors deal with the manufacturing, energy, mining and construction industries. There are 115 Monitors in this series some of which cover more than one industry and they are all listed overleaf. They are prefixed by a code P (for Production) followed by A (annual series).

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

If you would like details concerning Annual Census of Production data published for earlier years please telephone Newport (STD 0633) 222455.

If you would like to know more about the complete series of Business Monitors please contact HMSO Books (Publicity Department), FREEPOST, Norwich NR3 1BR who will send you a copy of the detailed Business Monitor Brochure which lists the Monitors available. For individual Monitor copies, back numbers or further information regarding the contents of Business Monitors please contact the Librarian, Business Statistics Office, Government Buildings, Cardiff Road, Newport, Gwent, NP9 1XG. Telephone Newport (0633) 222973. Telex 497121 and 497122; answer back BSONPT G.

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PA316

A publication of the Government Statistical Service

Report on the **Census of Production** 1984

Hand tools and finished metal goods

Presented by the Secretary of State for Trade and Industry (10 & 11 Geo.6 Cha.39 sec 7)

Department of Trade and Industry **Business Statistics Office**

BUSINESS MONITOR

to Parliament in pursuance of the Statistics of Trade Act 1947

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.

		variation
DA 1001	a standard and the printing or in many cases the entry sounds of the	
PA1001		
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	20
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	1
PA251	Basic industrial chemicals	0
PA255	Paints, varnishes and printing ink	1
PA256	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	Basic electrical equipment	1
PA343	Electrical equipment for industrial use, and batteries and accumulators	3
PA344	Telecommunication equipment, electrical measuring equipment, electronic capital goods and	
	passive electronic components	2
PA345	Miscellaneous electronic equipment	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

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BUSINESS MONITORS MAKING UP THE COMPLETE CENSUS REPORT (continued)

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Employment

percentage

A353	Motor vehicle parts
A361	Shipbuilding and repairing
A362	Railway and tramway vehicles
A363	Cycles and motor cycles
A364	Aerospace equipment manufacturing and repairing
A365	Miscellaneous vehicles
PA371	Measuring, checking and precision instruments and apparatus
A372	Medical and surgical equipment and orthopaedic appliances
A373	Optical precision instruments and photographic equipment
A374	Clocks, watches and other timing devices
A411	Organic oils and fats
A412	Slaughtering of animals and production of meat and by-products Preparation of milk and milk products
A413	Processing of fruit and vegetables
A414 A415	Fish processing
A415	Grain milling
A419	Bread, biscuits and flour confectionery
A420	Sugar and sugar by-products
A421	Ice-cream, cocoa, chocolate and sugar confectionery
A422	Animal feeding stuffs
A423	Starch and miscellaneous foods
A424	Spirit distilling and compounding
A426	Wines, cider and perry
A427	Brewing and malting
A428	Soft drinks
A429	Tobacco industry
A431	Woollen and worsted industry
A432	Cotton and silk industries
A433	Throwing, texturing, etc. of continuous filament yarn
A434	Spinning and weaving of flax, hemp and ramie
A435	Jute and polypropylene yarns and fabrics
A436	Hosiery and other knitted goods
PA437 PA438	Textile finishing Carpets and other textile floorcoverings
A430	Miscellaneous textiles
A433	Leather (tanning and dressing) and fellmongery
A442	Leather goods
A451	Footwear
A453	Clothing, hats and gloves
A455	Household textiles and other made-up textiles
A456	Fur goods
A461	Sawmilling, planing, etc. of wood
A462	Manufacture of semi-finished wood products and further processing a
A463	Builders carpentry and joinery
A464	Wooden containers
A465	Miscellaneous wooden articles
A466	Articles of cork and plaiting materials, brushes and brooms
PA467	Wooden and upholstered furniture and shop and office fittings
PA471	Pulp, paper and board
A472	Conversion of paper and board
A475	Printing and publishing
A481	Rubber products
A483 A491	Processing of plastics Jewellery and coins
A491	Musical instruments
A492	Photographic and cinematographic processing laboratories
A495	Toys and sports goods
A495	Miscellaneous manufacturing industries
A500	Construction
A1002	Summary tables

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Employment

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PA316 HAND TOOLS AND FINISHED METAL GOODS

PA316

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

3161 Hand tools and implements

Agricultural hand tools

Manufacture of agricultural, horticultural and foresters' hand tools.

Other hand tools

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

3162 Cutlery, spoons, forks and similar tableware; razors Cutlery, spoons, forks and similar tableware

Manufacture of table knives, kitchen knives, pocket knives, scissors, forks, spoons and similar tableware of base metals, including silver plated. The manufacture of swords, bayonets, etc. is included. Surgical cutlery is excluded and classified to Group 372; articles of precious metals are excluded and classified to Group 491. 2 **Razors and razor blades**

3163 Metal storage vessels (mainly non-industrial)

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

3164 Packaging products of metal 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

Metal kegs, drums and barrels 2

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

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

Locks, etc.

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

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.

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

Manufacture of anchors, graphels 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.

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PA316 HAND TOOLS AND FINISHED METAL GOODS

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.

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Table 3	Stocks and work in progress, 1980–1984
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Table 5	Percentage analysis of twelve-month periods covered by returns for the 1984 Census by number of returns and total employment
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PA316

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EXPLANATORY NOTES AND DEFINITIONS

INTRODUCTION

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

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

4. Establishments are asked to exclude from their returns particulars relating to ancillary departments not engaged in production (such as merchanting or factoring organisations, transport organis-ations, 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 6 of information for updating and checking the register. For establishments on the register making returns to the Quarterly Sales Inquiry, industrial classification is reviewed annually and is derived from an analysis of their commodity sales. Employment data are provided by the Quarterly Sales Inquiry and the Census of Production. Where establishments on the register do not make returns to these inquiries, employment is based mainly on information provided by the Department of Employment from Censuses of Employment. New additions to the register are obtained from various sources including HM Customs and Excise VAT records and Censuses of Employment.

COVERAGE

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

8. Under arrangements agreed for the 1984 Census, forms were despatched to all establishments with 20 or more employed except for those in the 20 to 49 employment size band located in England where, in general, a sample of 1 in 2 was taken. For industries where there were few units in the sample size band or where response in earlier years was poor, it was necessary to increase the sample. About 24,200 forms were despatched to production establishments in the United Kingdom for the 1984 Census.

ESTIMATION 10.

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

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

13. The second measure is the extent to which individual headings in an Industry Report are related to employment. Thus an estimate of total earnings which bears a close relationship to total employment is likely to be more accurate than an estimate of capital expenditure where the relationship to employment is not so clearly marked.

SUPPRESSION OF INFORMATION RELATING TO INDIVIDUAL UNDERTAKINGS Sub-section 9(5)(b) of the Statistics of Trade Act 1947 states 14 that:

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

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

CHANGES MADE FOR 1984 The 1984 Census was a benchmark one with a larger number 16 of establishments receiving inquiry forms than had been the case with the previous 4 Censuses. Additional questions, for larger establishments only, asked for information on road transport costs, and postal and telecommunications costs. Coverage of the Census was extended to include, for the first time, establishments classified to activity headings 4121 (slaughterhouses), 4126 (animal by-product processing) and 4930 (photographic and cinematographic processing laboratories).

SYMBOLS USED

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PERIOD COVERED

Establishments were asked to make returns for the calendar year 1984 but where this was not possible, returns for business years ending between 6 April 1984 and 5 April 1985 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.

"The following provisions shall have effect with respect to any

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

> not available nil or less than half the final digit shown figures cannot be shown owing to the risk of disclosing information about individual enterprises 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 nondeductible VAT. No allowance is made for depreciation, amortisation or obsolescence.

a. on LAND AND EXISTING BUILDINGS

21. This represents the value of freeholds and the value or premium payable or receivable for leaseholds acquired or disposed of. The figures for acquisitions include architects' and surveyors' fees, legal fees, stamp duties, agents' commissions and Land Registry fees. The figures for disposals are net of any such professional fees payable.

b. on NEW BUILDING WORK

22. This represents the value of new building and other 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, including the national insurance surcharge, under the Social Security Pensions Act 1975, commercial insurance premiums for policies providing pensions, superannuation or other retirement benefits, sickness benefits, personal accident benefits, disability benefits or death benefits for employees, including former employees, or their dependents. Also included are contributions to canteens, social centres, children's and holiday homes etc. and the cost of supplying luncheon vouchers.

EMPLOYMENT

28. This is the average number of ADMINISTRATIVE, TECH-NICAL 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 OUT-PUT 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 FACTOR-ING, 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

40 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 INDUS TRIAL SERVICES RECEIVED. Estimates are not made for remuneration of outworkers for establishments not completing Census returns.

SALES OF GOODS PRODUCED

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

STOCKS

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

WAGES AND SALARIES

44. This represents amounts paid during the year to ADMINIS-TRATIVE, 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 type-setting, block making and binding in the printing and publishing industries. Work done is an important part of the activities of the electrical machinery and heavy engineering industries, and includes erection, installation and repair and jobbing work.

WORK IN PROGRESS

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

8

	bre insid, retainey to only machinery	
	Bank charges	

his has leave the estimated total employment be used employment and the charge should be taken informetigning given on gage 2

Includes assess of managori of goods by road (wh C26,089 (housing) These were collected separately

Output and costs, 1980—1984 All United Kingdom establishments classified to the industry (a)

Ling max Particle		Unit	1980	1981	1982	1983	1984
Cardena Series E million 3,961.0 3,738.2 4,082.0 4,384.9 4,651.7 Sales of goods produed for establish- ment's own used for establish- ment's of pools for menchanting or materials, stores and fuel -23.8 17.0 22.0 69.3 Cost of materials ervices received ''' 208.5 188.5 738.4 202.0 276.0 Net output for head 'E' 8.466 9.537 11.43 12.605 13.891 Cost of industrial services ''' 132.5 199.7 188.1 180.6 175.10 <	Enterprises	Number	6,854	6,977	6,632	6,595	7,408(b)
Series of policy produced - Minustice - Minustice - Minustice - Minustice Benefits for voltage for establish- ments' own use - 6.4 6.9 6.1 6.4 11.6 Capital goods produced for establish- ments' own use - 6.4 6.9 6.1 6.4 11.6 Soods merchanted of factored - 285.7 259.9 312.0 343.0 355.8 Total sales and work done - 4.322.9 4.098.7 4.502.8 4.856.1 5.184.8 Increase during the year, work in rorges and goods on hand for sale - 16.5 -23.8 17.0 22.0 69.3 Gros output - 4.340.5 4.074.8 4.519.9 4.878.0 5.284.2 Archess of materials for use in pro- Juction, and packaging and fuel - 2.081.4 1.888.4 2.021.0 2.250.7 2.438.7 Archess of during the year, stocks of materials, stores and fuel - -36.4 -16.8 -21.7 16.9 21.0 Cost of industrial services received - 88.5 78.4 90.7 105.5 127.5 Net output Thou	Establishments		7,295	7,431	7,049	6,995	7,723(b)
envices rendered " 60.0 82.5 82.9 106.8 149.1 Spitial goods produced for establish- ents' own use " 6.4 6.9 6.1 6.4 11.6 Sook-industrial services rendered " 10.8 11.1 19.9 14.9 16.6 Sooks merchanted or factored " 285.7 259.9 312.0 343.0 355.8 Total sales and work done " 4,323.9 4,098.7 4,502.8 4,856.1 5,184.8 norges and goods on hand for sale " 16.5 -23.8 17.0 22.0 69.3 Gross output " 4,340.5 4,074.8 4,519.9 4,878.0 5,254.2 Varchases of materials for use in pro- uction, and packaging and fuel " 2,081.4 1,888.4 2,021.0 2,250.7 2,438.7 Aurchases of goods for merchanting or aetroring " 208.5 186.5 234.3 262.0 276.0 Increase during the year, stocks of metrase during the year, stocks of metrase during the year, stocks of metrase of nod-unity traitil services " 9.92.5 19.6.5 19.21.7 2.432.9	Sales of goods produced	£ million	3,961.0	3,738.2	4,082.0	4,384.9	4,651.7
apital goods produced for establish- ensity own use " 6.4 6.9 6.1 6.4 11.6 kon-industrial services rendered " 10.8 11.1 19.9 14.9 16.6 soods merchanted or factored " 285.7 259.9 312.0 343.0 355.8 Total sales and work done " 4,323.9 4,098.7 4,502.8 4,856.1 5,184.8 norsease during the year, work in corpes and goods on hand for sale " 4,340.5 4,074.8 4,519.9 4,878.0 5,254.2 urchases of materials for use in pro- uction, and packaging and fuel " 2,081.4 1,888.4 2,021.0 2,250.7 2,438.7 urchases of goods for merchanting or estoring " 208.5 186.5 234.3 262.0 276.0 nerease during the year, stocks of mercease during the year, stocks of the origotic industrial services received " 88.5 78.4 90.7 105.5 127.5 Net output Thousand 228.0 199.7 188.1 180.6 175.10 Net output per head £ 8,446 9,537 11,443 12,605 36.8<		.,	60.0	82.5	82.9	106.8	149.1
Definition of factoried " 285.7 259.9 312.0 343.0 353.8 Total sales and work done " 4,323.9 4,098.7 4,502.8 4,856.1 5,184.8 Torde sales and work done " 4,323.9 4,098.7 4,502.8 4,856.1 5,184.8 Droress and goods on hand for sale " 16.5 -23.8 17.0 22.0 69.3 Gross output " 4,340.5 4,074.8 4,519.9 4,878.0 5,254.2 urcheases of materials for use in pro- taction, and packaging and fuel " 2,081.4 1,888.4 2,021.0 2,250.7 2,438.7 urchease of goods for merchanting or urchease during the year, stocks of materials, stores and fuel " 208.5 186.5 234.3 262.0 276.0 Net output " 1,925.6 1,904.8 2,152.1 2,276.7 2,432.9 Otal amployment Thousand 228.0 199.7 188.1 180.6 175.10 Net output Emillion 16.5 19.2 23.5 <			6.4		6.1	6.4	11.6
Total sales and work done " 4,323.9 4,098.7 4,502.8 4,856.1 5,184.8 htreeses during the year, work in corgerss and goods on hand for sale " 16.5 -23.8 17.0 22.0 69.3 Gross output " 4,340.5 4,074.8 4,519.9 4,878.0 5,254.2 urchases of materials for use in pro- uction, and packaging and fuel " 2,081.4 1,888.4 2,021.0 2,250.7 2,438.7 urchases of goods for merchanting or laterials, stores and fuel " 2,081.4 1,888.4 2,021.0 2,250.7 2,438.7 orcesse during the year, stocks of laterials, stores and fuel " -36.4 -16.8 -21.7 16.9 21.0 ost of industrial services received " 88.5 78.4 90.7 105.5 127.5 Net output Thousand 228.0 199.7 188.1 180.6 175.10 Net output per head £ 8,446 9,537 11,443 12,505 30.5 32.3 Pents of industrial services "	lon-industrial services rendered	"	10.8	11.1	19.9	14.9	16.6
crease during the year, work in crease during the year, work in crease during the year, work in sole 16.5 -23.8 17.0 22.0 69.3 Gross output "4,340.5 4,074.8 4,519.9 4,878.0 5,254.2 urchases of materials for use in pro- uction, and packaging and fuel "20.81.4 1,888.4 2,021.0 2,250.7 2,438.7 urchases of goods for merchanting or ucreases of goods for merchanting or itaterials, stores and fuel "208.5 186.5 234.3 262.0 276.0 crease during the year, stocks of itaterials, stores and fuel "36.4 -16.8 -21.7 16.9 21.0 ost of industrial services received "88.5 78.4 90.7 105.5 127.5 Net output "1,925.6 1,904.8 2,152.1 2,276.7 2,432.9 otal employment Thousand 228.0 199.7 188.1 180.6 175.10 Net output per head £ 8,446 9,537 11,443 12,605 13,891 otal employment Thousand 23.2 22.7 21.1 20.6 22.1 Bents of industrial services "21.0 21.8 25.1	oods merchanted or factored		285.7	259.9	312.0	343.0	355.8
rogress and goods on hand for sale " 16.5 23.8 17.0 22.0 69.3 Gross output " 4,340.5 4,074.8 4,519.9 4,878.0 5,254.2 urchases of materials for use in pro- toction, and packaging and fuel " 2,081.4 1,888.4 2,021.0 2,250.7 2,438.7 urchases of goods for merchantling or ctoring " 208.5 186.5 234.3 262.0 276.0 crenases during the year, stocks of aterials, stores and fuel " 36.4 16.8 21.7 16.9 21.0 post of industrial services received " 88.5 78.4 90.7 105.5 127.5 Net output " 1,925.6 1,904.8 2,152.1 2,276.7 2,432.9 post of non-industrial services £ 8,446 9,537 11,443 12,605 13,891 bost of non-industrial services £ 8,446 9,537 11,443 12,605 36.8 Commercial insurance premiums £ 21.0 21.8 25.1 28.5	Total sales and work done	"	4,323.9	4,098.7	4,502.8	4,856.1	5,184.8
urchases of materials for use in pro- ctoring "2,081,4 1,888,4 2,021,0 2,250,7 2,438,7 urchases of goods for merchanting or ctoring "208,5 186,5 234,3 262,0 276,0 urchases of goods for merchanting or ctoring "208,5 186,5 234,3 262,0 276,0 urchases of industrial services received "36,4 16,8 -21,7 16,9 21,0 ost of industrial services received "1,925,6 1,904,8 2,152,1 2,276,7 2,432,9 otal employment Thousand 228,0 199,7 188,1 180,6 175,10 Net output per head £ 8,446 9,537 11,443 12,605 13,891 ost of non-industrial services ceived "21,0 21,8 25,1 28,5 36,8 Commercial insurance premiums "21,0 21,8 25,1 28,5 36,8 Commercial insurance premiums "20,9,8 236,1 268,0 295,1 318,70 Contercial insurance premiums "20,9,8 236,1 268,0 295,1 318,70 Other non-industrial services <t< td=""><td></td><td></td><td>16.5</td><td>-23.8</td><td>17.0</td><td>22.0</td><td>69.3</td></t<>			16.5	-23.8	17.0	22.0	69.3
uction, and packaging and fuel " 2,081.4 1,888.4 2,021.0 2,250.7 2,438.7 urchases of goods for merchanting or ctoring " 208.5 186.5 234.3 262.0 276.0 urchases of goods for merchanting or ctoring " -36.4 -16.8 -21.7 16.9 21.0 ost of industrial services received " 88.5 78.4 90.7 105.5 127.5 Net output " 1,925.6 1,904.8 2,152.1 2,276.7 2,432.9 otal employment Thousand 228.0 199.7 188.1 180.6 175.10 Net output per head £ 8,446 9,537 11,443 12,605 13,891 ost of non-industrial services ceived " 21.0 21.8 25.1 28.5 30.5 32.3 Rents of industrial and commercial mark charges " 21.0 21.8 25.1 28.5 36.8 Commercial insurance premiums " 23.2 22.7 21.1 20.6 22.1 Bank charges " 209.8 236.1 268.0	Gross output	"	4,340.5	4,074.8	4,519.9	4,878.0	5,254.2
interving " 208.5 186.5 234.3 262.0 276.0 interviaes during the year, stocks of interviaes received " -36.4 16.8 21.7 16.9 21.0 ost of industrial services received " 88.5 78.4 90.7 105.5 127.5 Net output " 1,925.6 1,904.8 2,152.1 2,276.7 2,432.9 otal employment Thousand 228.0 199.7 188.1 180.6 175.10 Net output per head £ 8,446 9,537 11,443 12,605 13,891 ost of non-industrial services " 21.0 21.8 25.1 28.5 36.8 Commercial insurance premiums " 21.0 21.8 25.1 28.5 36.8 Commercial insurance premiums " 21.0 21.8 25.1 28.5 36.8 Commercial insurance premiums " 21.5 2.4 3.0 3.3 4.0 Other non-industrial services " 2.5 2.4 3.0 3.3 4.0 Other non-ind		,,	2,081.4	1,888.4	2,021.0	2,250.7	2,438.7
aterials, stores and fuel "36.4 16.8 21.7 16.9 21.0 best of industrial services received " 88.5 78.4 90.7 105.5 127.5 Net output " 1,925.6 1,904.8 2,152.1 2,276.7 2,432.9 btal employment Thousand 228.0 199.7 188.1 180.6 175.10 Net output per head £ 8,446 9,537 11,443 12,605 13,891 btal employment £ 8,446 9,537 11,443 12,605 13,891 btat of non-industrial services £ 8,446 9,537 11,443 12,605 30.5 32.3 Fire of vehicles, plant and machinery £ million 16.5 19.2 23.5 30.5 32.3 Commercial insurance premiums " 21.0 21.8 25.1 28.5 36.8 Commercial insurance premiums " 23.2 22.7 21.1 20.6 22.1 Bank charges " 2.5 2.4 3.0 3.3 4.0 Other non-industrial services " 20.9.8 236.1 268.		andebag and i eng "reponete	208.5	186.5	234.3	262.0	276.0
Net output " 1,925.6 1,904.8 2,152.1 2,276.7 2,432.9 otal employment Thousand 228.0 199.7 188.1 180.6 175.10 Net output per head £ 8,446 9,537 11,443 12,605 13,891 Data of non-industrial services ceived # machinery £ million 16.5 19.2 23.5 30.5 32.3 Rents of industrial and commercial buildings " 21.0 21.8 25.1 28.5 36.8 Commercial insurance premiums " 23.2 22.7 21.1 20.6 22.1 Bank charges " 21.5 2.4 3.0 3.3 4.0 Other non-industrial services " 20.5 2.4 3.0 3.3 2.4 ates, excluding water rates " 36.5 44.0 48.9 48.8 49.2 Gross value added at factor cost " 1,614.2 1,556.6 1,760.3 1,847.5 1,967.4			-36.4	-16.8	-21.7	16.9	21.0
Datal employmentThousand228.0199.7188.1180.6175.10Net output per head£8,4469,53711,44312,60513,891Dest of non-industrial services£8,4469,53711,44312,60513,891Hire of vehicles, plant and machinery£ million16.519.223.530.532.3Rents of industrial and commercial buildings"21.021.825.128.536.8Commercial insurance premiums"23.222.721.120.622.1Bank charges"2.52.43.03.34.0Other non-industrial services"1.992.02.32.32.4ates, excluding water rates"36.544.048.948.849.2Gross value added at factor cost"1,614.21,556.61,760.31,847.51,967.4	ost of industrial services received		88.5	78.4	90.7	105.5	127.5
Net output per head£8,4469,53711,44312,60513,891Dest of non-industrial services ceived£ million16.519.223.530.532.3Hire of vehicles, plant and machinery£ million16.519.223.530.532.3Rents of industrial and commercial buildings"21.021.825.128.536.8Commercial insurance premiums"23.222.721.120.622.1Bank charges"2.52.43.03.34.0Other non-industrial services"209.8236.1268.0295.1318.70censing of motor vehicles"1.92.02.32.32.4attes, excluding water rates"36.544.048.948.849.2Gross value added at factor cost"1,614.21,556.61,760.31,847.51,967.4	Net output	"	1,925.6	1,904.8	2,152.1	2,276.7	2,432.9
bast of non-industrial services ceived Hire of vehicles, plant and machinery <u>f</u> million 16.5 19.2 23.5 30.5 32.3 Rents of industrial and commercial buildings <u>"21.0</u> 21.8 25.1 28.5 36.8 Commercial insurance premiums <u>"23.2</u> 22.7 21.1 20.6 22.1 Bank charges <u>"2.5</u> 2.4 3.0 3.3 4.0 Other non-industrial services <u>"209.8</u> 236.1 268.0 295.1 318.7(c censing of motor vehicles <u>"199</u> 2.0 2.3 2.3 2.4 ates, excluding water rates <u>"36.5</u> 44.0 48.9 48.8 49.2 Gross value added at factor cost <u>"1,614.2</u> 1,556.6 1,760.3 1,847.5 1,967.4	otal employment	Thousand	228.0	199.7	188.1	180.6	175.1(b
ceivedHire of vehicles, plant and machinery£ million16.519.223.530.532.3Rents of industrial and commercial buildings"21.021.825.128.536.8Commercial insurance premiums"23.222.721.120.622.1Bank charges"2.52.43.03.34.0Other non-industrial services"209.8236.1268.0295.1318.7censing of motor vehicles"1.92.02.32.32.4ates, excluding water rates"36.544.048.948.849.2Gross value added at factor cost"1,614.21,556.61,760.31,847.51,967.4	Net output per head	£	8,446	9,537	11,443	12,605	13,891
machinery £ million 16.5 19.2 23.5 30.5 32.3 Rents of industrial and commercial buildings " 21.0 21.8 25.1 28.5 36.8 Commercial insurance premiums " 23.2 22.7 21.1 20.6 22.1 Bank charges " 2.5 2.4 3.0 3.3 4.0 Other non-industrial services " 209.8 236.1 268.0 295.1 318.7(a censing of motor vehicles " 1.9 2.0 2.3 2.3 2.4 ates, excluding water rates " 36.5 44.0 48.9 48.8 49.2 Gross value added at factor cost " 1,614.2 1,556.6 1,760.3 1,847.5 1,967.4							
buildings " 21.0 21.8 25.1 28.5 36.8 Commercial insurance premiums " 23.2 22.7 21.1 20.6 22.1 Bank charges " 2.5 2.4 3.0 3.3 4.0 Other non-industrial services " 209.8 236.1 268.0 295.1 318.76 censing of motor vehicles " 1.9 2.0 2.3 2.3 2.4 ates, excluding water rates " 36.5 44.0 48.9 48.8 49.2 Gross value added at factor cost " 1,614.2 1,556.6 1,760.3 1,847.5 1,967.4		£ million	16.5	19.2	23.5	30.5	32.3
Bank charges " 2.5 2.4 3.0 3.3 4.0 Other non-industrial services " 209.8 236.1 268.0 295.1 318.7 censing of motor vehicles " 1.9 2.0 2.3 2.3 2.4 ates, excluding water rates " 36.5 44.0 48.9 48.8 49.2 Gross value added at factor cost " 1,614.2 1,556.6 1,760.3 1,847.5 1,967.4	Rents of industrial and commercial buildings		21.0	21.8	25.1	28.5	36.8
Other non-industrial services " 209.8 236.1 268.0 295.1 318.7 (r censing of motor vehicles " 1.9 2.0 2.3 2.3 2.4 ates, excluding water rates " 36.5 44.0 48.9 48.8 49.2 Gross value added at factor cost " 1,614.2 1,556.6 1,760.3 1,847.5 1,967.4	Commercial insurance premiums	"	23.2	22.7	21.1	20.6	22.1
censing of motor vehicles"1.92.02.32.32.4ates, excluding water rates"36.544.048.948.849.2Gross value added at factor cost"1,614.21,556.61,760.31,847.51,967.4Gross value added at factor cost	Bank charges	"	2.5	2.4	3.0	3.3	4.0
ates, excluding water rates '' 36.5 44.0 48.9 48.8 49.2 Gross value added at factor cost '' 1,614.2 1,556.6 1,760.3 1,847.5 1,967.4 Gross value added at factor cost '' 1 <td>Other non-industrial services</td> <td></td> <td>209.8</td> <td>236.1</td> <td>268.0</td> <td>295.1</td> <td>318.7(c)</td>	Other non-industrial services		209.8	236.1	268.0	295.1	318.7(c)
Gross value added at factor cost '' 1,614.2 1,556.6 1,760.3 1,847.5 1,967.4 Gross value added at factor cost	censing of motor vehicles	"	1.9	2.0	2.3	2.3	2.4
Gross value added at factor cost	ates, excluding water rates	"	36.5	44.0	48.9	48.8	49.2
	Gross value added at factor cost	"	1,614.2	1,556.6	1,760.3	1,847.5	1,967.4
	Gross value added at factor cost per head	£	7,080	7,793	9,359	10,229	11,234

(a) Satisfactory returns accounted for 70 per cent of employment within the industry in 1984.

Use of a new register of businesses for 1984 has affected the number and distribution of enterprises and establishments (see Table 4). 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 (b) information is given on page 2.

(c) Includes the cost of transport of goods by road (within the UK) of £81,848 thousand and postal and telecommunication costs of £26,689 thousand. These were collected separately for 1984 but not for the other years shown in the table.

TABLE 2

PA316

Capital expenditure, 1980-1984 All United Kingdom establishments classified to the industry

									£ millior
nd perch	Concerns examples of	1980		1981	1982		1983	1984	and work
and an element of the last					*				्या असम्बद्ध की स्वर्ध पूर्व भूख्या
and and building. New building v Land and exist	work	19.5		10.0	6.6		7.9	13.4	
Acquisition	IS	9.9		5.1	5.9		5.3	12.1	
Disposals		3.8		5.3	8.6		32.0	6.5	
Net		25.6		9.8	3.9		-18.7	19.0	
lant and machine	ery								
Acquisitions		124.1		100.3	97.1		123.4	158.9	
Disposals		15.8		7.6	11.4		7.7	27.4	
Net		108.3		92.7	85.7		115.7	131.5	
/ehicles									
Acquisitions		28.1		21.2	26.7		28.2	39.5	
Disposals		9.5		8.8	11.3		9.6	13.9	
Net		18.6		12.4	15.4		18.6	25.6	
Total net c	apital expendi	ture 152.5		114.9	105.0		115,5	176.0	
9,247 (3,7%)	4d688 .	585.56	0.70	15,002 8.8	filla '	8.812.76	g St	16.731	760-242
	548.4								

TABLE 3

Stocks and work in progress, 1980–1984 All United Kingdom establishments classified to the industry

	1980	1981	1982	1983	1984	
		-	-	-		-
a. Increase during year						
aterials, stores and fuel	-36.4	-16.8	-21.7	16.9	21.0	
ork in progress	-14.6	-3.3	6.2	5.9	31.4	
oods on hand for sale	31.1	-20.6	10.8	16.0	37.9	
Total	-19.9	-40.7	-4.7	38.9	90.3	
	nojuuta nu	w been bus sideling	as the best estimates e	y regarded morely	t bloode stremmalicer	28
					1984	
b. Value at end of year					av exceed the catel fo	
naing costs of cantoons are						
laterials, stores and fuel					002.9	
ork in progress					252.8	
					_0_10	
boods on hand for sale					312.6	

	1980	1981	1982	1983	1984	
Ba. Increase during year					and the second	
Materials, stores and fuel	-36.4	-16.8	-21.7	16.9	21.0	
Vork in progress	-14.6	-3.3	6.2	5.9	31.4	
Goods on hand for sale	31.1	-20.6	10.8	16.0	37.9	
Total	-19.9	-40.7	-4.7	38.9	90.3	
					1984	
Vork in progress					252.8	
Goods on hand for sale					312.6	
Total					898.3	

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Employment, labour costs, output, net capital expenditure and stocks and work in progress by size of total employment, 1984 All United Kingdom establishments classified to the industry (a)

Size	Estab-	Enter-	Employment			Wages and sa	laries (c)		
0	lish- ments	prises (b)							
			Total, Opera- including tives working proprietors		Admin- istrative, technical and clerical	Operatives			ative, and clerical
						Total	per head	Total	per head
an oran da a	Number	Number	Thousand	Thousand	Thousand	£ million	£	£ million	£
1—9	5,046	5,005	18.9)		289.84				
10–19	1,413	1,394	20.0)	50.2	, 20.2	254.2	5 097	173.0	8,534
20–49	666	657	20.9)	59.2	20.3	354.3	5,987	175.0	6,534
50-99	284	270) 19.9)						
100–199	170	153	23.8	17.4	6.4	102.2	5,867	52.8	8,303
200–299	53	49	12.9	9.3	3.6	58.5	6,321	29.3	8,150
300–399	26	24	8.7	6.2	2.5	39.5	6,344	22.6	9,208
400-499	12	12	5.4	3.8	1.6	26.3	6,928	14.8	8,985
500749	26	18	16.4	12.5	3.9	92.4	7,385	36.4	9,372
750–999	15	12	12.8	9.2	3.6	67.0	7,282	33.1	9,247
1,000 plus	12	9	15.5	10.7	4.7	79.3	7,388	48.4	10,269
· Cutor humandi + 51									
Total	7,723	7,408		128.3	46.5	819.5	6,386	410.4	8,825

(a) Establishments employing fewer than 20 persons are not required to complete census returns. Because of this, data for these establishments should be regarded merely as the best estimates available and used with caution.

(b) The count of enterprises shown in each row represents the number of enterprises, irrespective of size, owning the establishments shown in each size group. Because an enterprise may own establishments in more than one size group, the sum of individual enterprise counts may exceed the total for the industry.

(c) The cost of employers' contributions to the national insurance, pensions and welfare schemes and the running costs of canteens are excluded from the table but were estimated for the industry at £187.0 million. The remuneration of outworkers on returns received – also excluded from the table – was £1,147 thousand.

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

Total sales and work done	Gross output	Net output	F let copiesi expenditore	Gross value added at factor cost
done				
		Total	per	Total
		United <u>Kinada</u> go	head	United Kingdow
£ million	£ million	£ million	£	£ million
		1.7		
2.057.0	2 075 2	1 001 0	10 557	
2,057.0	2,075.3	1,001.2	12,557	(d)
646.2	654.5	319.0	13,407	1,072.8(d)
440.0	446.0	189.6	14,742	150.2
245.7	247.8	118.9	13,696	97.4
164.8	168.7	85.2	15,659	70.0
691.7	709.0	285.1	17,389	244.0
441.8	448.1	199.1	15,582	163.2
497.5	504.7	234.8	15,197	169.8
5,184.8	5,254.2	2,432.9	13,891	1,967.4

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mennell	Net capital	Total stocks
	expenditure	and work in progress at
		end of year
EA		
per head		
£	£ million	£ million
(d)	76.8	341.7
10,365(d)	22.9	116.7
11,684	13.7	84.8
11,221	9.7	49.0
12,863	4.5	34.2
14,885	22.8	110.9
12,768	16.7	73.6
10,990	8.8	87.5

11,234

ratio or operatives to administrative echnical and clerical einbloyees

176.0 898.3

Wagas and salaries per operative

Wages and salaries per administrative mohnical and ciarical employee

Net capital expenditure per head .

Net capital expenditure as a percentage of gross value added PA316

Percentage analysis of twelve-month periods covered by returns received for the 1984 Census by number of returns and total employment

Accounting ye	ar ended	-l-ter	Percentage	of total return	s received	Percentage of tota	al employment	
1984 6–30	April	10 (0) (83)	4.1	ecided et foctor cost		2.2	TURNO ASHC	्यात्रक सम्पन्ध प्रतिहरू स्टिय इसाइट
	May		2.6			0.9		
	June		6.0		Entorquies meiohisteral and premiosi	4.0		
	July		4.3			2.6		
	August		3.2			1.8		
	September		8.2			5.6		
	October		3.9			1.7		
	November		2.2			3.7		
	December		38.9			45.5		
1985	January		1.8			1.0		
	February		2.4			1.2		
100-30	March–5 April		22.3	. 62	2.9	29.7	22.5	51.2258
-400-2088	4,5	12	^{6.6} 12,863	0.04				

TABLE 6

Operating ratios, 1980–1984

All United Kingdom establishments classified to the industry

	Unit	1980	1981	1982	1983	1984
Gross output per head	£	19,037	20,402	24,032	27,009	30,000
Net output per head	£	8,446	9,537	11,443	12,605	13,891
Gross value added per head	£	7,080	7,893	9,359	10,229	11,234
Gross value added as a percentage of gross output	%	37	38	39	38	37
Ratio of gross output to stocks		5.0	5.0	5.4	5.7	5.8
Wages and salaries as a percentage of gross value added	%	66	67	62	62	63
Ratio of operatives to administrative, technical and clerical employees		3.0	2.8	2.7	2.7	2.8
Wages and salaries per operative	£	4,388	4,847	5,403	5,794	6,386
Nages and salaries per administrative, technical and clerical employee	£	5,940	6,683	7,343	8,102	8,825
Net capital expenditure per head	£	669	575	558	639	1,005
Net capital expenditure as a percentage of gross value added	%	9	7	6	6	9

TABLE 7

Regional distribution of employment, net capital expenditure, net output and gross value added at factor cost, 1984 All United Kingdom establishments classified to the industry

Area	Total		Net capital		Net		Gross value	
	employmen	t (a)	expenditure	e (b)	output (c)		added at factor cost	
							luctor cost	ct nem tel den
1.7.	Thousands	per cent of	£ million	per cent of	£ million	per cent of	£ million	per cent of
	mousanus	United	A O	United	L mmon	United	Limiton	United
		Kingdom		Kingdom		Kingdom		Kingdom
1,8								
Standard regions of								
England								
North	5.3	3.0	9.1	5.2	86.2	3.5	73.5	3.7
Yorkshire and						51	veer, work	ant phinub seems
Humberside	19.9	11.4	16.2	9.2	253.6	10.4	211.4	10.8
East Midlands		*	* 1321		*	o *	*	6.62 Gross output
East Anglia	*	*	*	*	*	* .010.0	als for use la	ichases of mater
882.2	8.62		4.86	98,7			aul bns pnig	etion, and packs
South East	41.1	23.5	35.4	20.1	592.6	24.4	461.8	23.5
South West	9.2	5.2	9.0	5.1	127.0	5.2	107.2	5.4
					8.8			i gen cous
West Midlands	48.5	27.7	45.2	25.7	612.2	25.2	490.0	24.9
North West	20.2	11.5	22.4	12.7	207.0	11.0	000 F	11.0
North West	20.2	11.5	22.4	12.7	287.0	11.8	233.5	11.9
England	158.1	90.3	156.0	88.6	2,175.8	89.4	1,756.6	89.3
								Nootuu telä
Wales	*	*50,3	*	*	118.*	*	*	1.1.1.1
Scotland	8.0	4.5	8.7	4.9	114.8	4.7	94.0	4.8
	0.0	4.0	0.7	4.5	114.0	4.7	94.0	4.0
Great Britain	*	1.*	*	*	\$4080 *	×	*	*
Northern Ireland	*	*	*	*	*	*	ial services *	at of hop-indusu
Jnited Kingdom	175.1	100.0	176.0	100.0	2,432.9	100.0	1,967.4	100.0

(a) Average number employed during the year, including full and part-time employees and working proprietors.

(b) New building work plus acquisitions less disposals of land and existing buildings, vehicles and plant and machinery.

(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 of 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.

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Output and costs, 1984

All United Kingdom establishments classified to each activity	y heading within the	ne industry
		with the the Industry

connection were unclust	Unit	3161	3162	Paraterrage	3163	3164
Enterprises (a)	Number	325	77	(a) 2.2	98	395
Establishments	"	336	80		102	427
ales of goods produced	£ million	233.3	102.5		82.5	1,358.1
Vork done and industrial ervices rendered		1.0	*		*	9.5
Capital goods produced for establish- nents' own use	E million Dev cent E million E municad Klandrick	0.1	0.4		0.8	3.4
Ion-industrial services rendered	,, 87	0.2	*		*	8.1
Goods merchanted or factored		22.6	23.3		1.4	73.2
Total sales and work done	88. ·· 3.6	257.1	126.5		84.9	1,452.3
ncrease during the year, work in progress and goods on hand for sale	253.6990	3.5	5.6		1.8	21.3
Gross output	• •	260.6	132.1		86.7	1,473.6
Purchases of materials for use in pro- Juction, and packaging and fuel	24	98.7	. 36.4		49.6	882.2
urchases of goods for merchanting or actoring	-5.8-" - 0/191	15.5	19.1		1.7	65.0
ncrease during the year, stocks of naterials, stores and fuel	612.2 25.2 	1.1	0.4		0.9	-3.0
Cost of industrial services received	2 (78.8 89.4	5.3	1.9		1.5	14.2
Net output		142.3	75.0		34.8	509.1
otal employment	Thousand	10.8	4.3		2.5	31.0
Net output per head	£	13,177	17,435		13,891	16,435
Cost of non-industrial services eceived						
Hire of vehicles, plant and machinery	£ million	2.0	0.2		0.4	10.1
Rents of industrial and commercia buildings	oloyees and working pj 3 w	1.7	0.7		0.4	7.3
Commercial insurance premiums	"	1.1	0.5		0.3	5.2
Bank charges	e of ese not output attr to of each radim, was of	0.2	0.1		0.1	0.7
Other non-industrial services	WILLIE DECIDE THE THE STORE	16.5	9.6		3.4	77.9
icensing of motor vehicles		0.1	5.0 -		0.1	0.5
lates, excluding water rates	".	2.8	1.0		0.7	9.7
Gross value added at factor cost	"	117.8	62.9		29,5	397.8
Gross value added at factor cost						

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. (a)

3165	3166		3167	3169
109	455	3162		3169
115	465		320	5,724
267.4	463.6		325	5,873
207.4	403.0		196.6	1,947.7
1.7	8.8		2.4	125.5
0.9	0.3		0.2	5.5
1.3	0.2		1.1	5.5
7.2	46.0		12.7	169.5
278.5	518.9		212.9	2,253.6
0.2	0.5			
6.9	3.7		0.6	25.9
285.4	522.6		213.6	2,279.6
133.3	221.6		83,5	933.4
11	2.0		0.6	
4.4	32.8		9.8	127.6
3.0	1.6		1.3	15.6
7.2	15.5		3.4	78.4
143.5	254.3		118.2	1,155.8
10.5	17.6		7.9	90.6
13,684	14,486		14,936	12,756
1.2	4.7		oniceed when 0.7 ce of bed	Add the appoint of show the start land a month all dia se motored 13.1
0.6	6.2		0.9	19.0
0.8	2.5		1.4	10.4
0.1	0.4		0.3	2.1
19.8 0.8	44.3		23.7	123.5
0.1	0.5		0.1	0.9
2.7	8.0 6.1		2.4	23,8
118.1	189.6		88.7	963.0
1,266	10,802		11,210	10,629
				Here is and or year

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1,210	10,629
88.7	963.0
2.4	23.8
0.1	0.9
23.7	123.5
0.3	2.1
1.4	10.4
0.9	19.0
0.7	13.1

Capital expenditure, 1984 All United Kingdom establishments classified to each activity heading within the industry

Marghan let	3161	3028	3162	77	3163	505	3164	
		3.96		405		102	52.7	
_and and buildings								
New building work	0.2		*		*		1.8	
Land and existing buildings								
Acquisitions	1.6		*		*		1.0	
Disposals	0.4		*		*		1.7	
Net	1.4		_		0.9		1.1	
Plant and machinery								
Acquisitions	5.5		7.6		*		*	
Disposals	0.6		0.1		*		*	
Net	4.9		7.5		2.1		26.4	
/ehicles								
Acquisitions	1.6		0.6		1.0		9.2	
Disposals	0.6		0.3		0.2		3.6	
Net	1.0		0.3		0.8		5.6	
Total net capital expenditure	7.3		7.9		3.8		33.1	
A ST	6.E			15.5				5.5

TABLE 10

Stocks and work in progress, 1984 All United Kingdom establishments classified to each activity heading within the industry

Dien Commissee insummer premierus	3161	1.1	3162	0.5	3163	0,0	3164	
	1			10.1				
10a. Increase during year								
Materials, stores and fuel	1.1		0.4		0.9		-3.0	
Work in progress	1.5		0.7		1.0		11.5	
Goods on hand for sale	2.0		4.9		.0.8		9.8	
Total	4.7		6.0		2.6		18.3	
par keesi	E.	14,913		16,820	1	1,775	12,0%	
10b. Value at end of year								
Materials, stores and fuel	16.0		6.4		6.7		88.6	
Work in progress	17.5		6.7		3.4		41.5	
Goods on hand for sale	27.7		14.8		2.8		76.5	
Total	61.2		27.9		13.0		206.6	

					£ million
3165		3166	and a second sec	3167	3169
	A7.509	94,821	. <u>39</u> 926	Barris and a starting and	ban succession had
0.3		4.2		0.2	6.1 basit neg basit ettav sent
-		1.0		RING BUSINE	7.3
0.1		0.5		£.6	3.8
0.2		4.7		1.1	9.6
10.7		12.0		4.9	69.1
0.2		0.5		0.1	5.5
10.5		11.5		4.8	63.6
1.6		5.5		1.6	18.4
0.4		2.3		0.5	6.1
1.2		3.2		1.1	12.3
11.9		19.4		7.0	85.5

İ.	550.53	852.64				£ millio
3165	10,629	3 _ 11:210	3166	316	37	3169
3.0			1.6	Grand 1.	3	15.6
2.1			0.2	0.	8	12.6
4.8			3.5	-0.	1	12.3
9.9	2.7	<u>c 1:</u>	5.3	2.	0	41.5
				6,243	3	ta una suismiss per operative
7.0			29.9	14.	9	153.4
6.1			27.9	9.	6	129.9
9.2		2	28.3	15.0	6	127.6
52.4		8	6.2	40.	1	410.9

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Operating ratios, 1984

All United Kingdom establishments classified to each activity heading within the industry

the stranger and the set of the s	Unit	3161		3162	3163	3164	
		ξi			DBIC		081
Gross output per head	£	24,137		30,686	34,621	47,569	
Net output per head	£	13,177		17,435	13,891	16,435	
Gross value added per head	£	10,913		14,620	11,773	12,840	
Gross value added as a percentage of gross output	%	45		48	34	27	
Ratio of gross output to stocks		4.3		4.7	6.7	7.1	
Vages and salaries as a percentage of ross value added	%	60		48	60	63	
latio of operatives to administrative, achnical and clerical employees		3.0		2.4	2.7	3.3	
lages and salaries per operative	£	5,863		6,093	6,703	7,428	
lages and salaries per administrative, achnical and clerical employee	£	8,503		9,101	8,305	10,446	
let capital expenditure per head	£	676		1,834	1,528	1,068	
et capital expenditure as a percentage f gross value added	%	6	0.3	13	13	8	
1. New 2.27	1.0 1.1		9,5		9.0.9.2	0.0	

TABLE 11

Operating ratios, 1984

All United Kingdom establishments classified to each activity heading within the industry

	Unit	:	3165		3166	3167	3169	
Gross output per head	£	acci activicy.	27,223	<u>115 (</u> 14) (1	29,770	26,992	25,160	_
Net output per head	£		13,684		14,486	14,936	12,756	
Gross value added per head	£		11,266		10,802	11,210	10,629	
Gross value added as a percentage of gross output	%		41		36	42	42	
Ratio of gross output to stocks			5.4		6.1	5.3	5.5	
Vages and salaries as a percentage of pross value added	.%		59		71	. 56	63	
Ratio of operatives to administrative, echnical and clerical employees			2.7		2.1	3.2	2.7	
Vages and salaries per operative	£		6,348		7,007	5,464	6,056	
Vages and salaries per administrative, achnical and clerical employee	£		7,622		9,258	8,756	8,429	
Net capital expenditure per head	£		1,134		1,107	885	944	
let capital expenditure as a percentage f gross value added	%		10		10	8	9	
Total		·64.2		39.0		Bargas.		12,0

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CLASSIFIED LIST OF

MANUFACTURING BUSINESSES

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