PA251 1984

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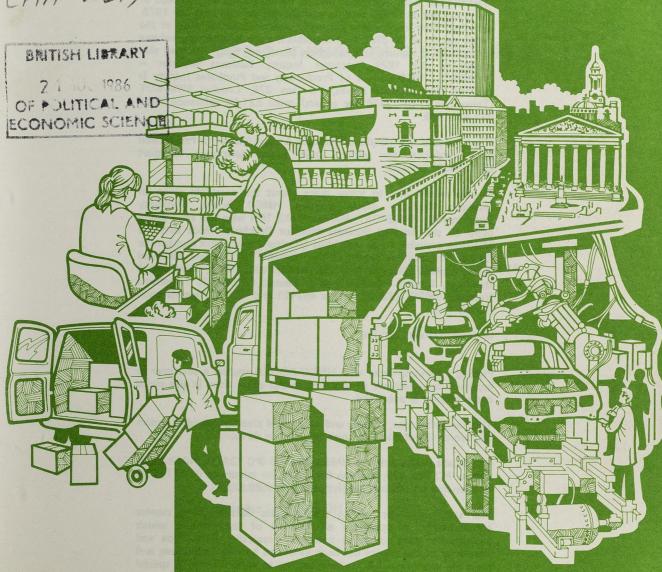
42 (HA 251)

**BUSINESS STATISTICS OFFICE** 

# **Business Monitor**

Report on the Census of Production

Basic industrial chemicals



**HMSO** 



A publication of the Government Statistical Service

## **BUSINESS MONITORS**

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

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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.

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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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## PA251

# **BUSINESS MONITOR**

A publication of the Government Statistical Service

Report on the Census of Production 1984

Basic industrial chemicals

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	C
PA243	Building products of concrete, cement or plaster	_9
PA243		C
PA245	Asbestos goods	-2
PA245	Working of stone and other non-metallic minerals	-6
PA240	Abrasive products	2
PA247	Glass and glassware	1
	Refractory and ceramic goods  Basic industrial chemicals	d
PA251		1
PA255	Paints, varnishes and printing ink	1
PA256	Specialised chemical products mainly for industrial and agricultural purposes	1
PA257	Pharmaceutical products	0
PA258	Soap and toilet preparations	0
PA259	Specialised chemical products mainly for household and office use	0
PA260	Production of man made fibres	-4
PA311	Foundries	-4
PA312	Forging, pressing and stamping	
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	
D 4 000	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

## BUSINESS MONITORS MAKING UP THE COMPLETE CENSUS REPORT (continued)

		Employ percent
		variatio
PA353	Motor vehicle parts	-2 0
PA361	Shipbuilding and repairing	0
PA362	Railway and tramway vehicles  Cycles and motor cycles	0
PA363 PA364	Cycles and motor cycles  Aerospace equipment manufacturing and repairing	0
PA365	Miscellaneous vehicles	2
PA303	Measuring, checking and precision instruments and apparatus	4
PA372	Medical and surgical equipment and orthopaedic appliances	-8
PA373	Optical precision instruments and photographic equipment	100
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	Tobacco industry	0
PA431 PA432	Woollen and worsted industry Cotton and silk industries	-2 3
PA432	Throwing, texturing, etc. of continuous filament yarn	-3
PA434	Spinning and weaving of flax, hemp and ramie	-3 -3
PA435	Jute and polypropylene yarns and fabrics	-3
PA436	Hosiery and other knitted goods	3
PA437	Textile finishing	3
PA438	Carpets and other textile floorcoverings	1
PA439	Miscellaneous textiles	3
PA441	Leather (tanning and dressing) and fellmongery	-5
PA442	Leather goods	8
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 PA472	Pulp, paper and board	0 kg 0 1 m
PA475	Conversion of paper and board	3
PA481	Printing and publishing	5
PA483	Rubber products Processing of plastics	-1
PA491	Processing of plastics  Jewellery and coins	2
PA492	Musical instruments	1
PA493	Photographic and cinematographic processing laboratories	-5
PA494	Toys and sports goods	The Mark
PA495	Miscellaneous manufacturing industries	-1 67
PA500	Construction	0/
PA1002	Summary tables	

#### 2511 Inorganic chemicals except industrial gases

Manufacture of chemical elements and inorganic compounds including carbon inorganic compounds. Formulated chemical mixtures with specific end use are excluded. Industrial gases are classified to Group 256.

### 2512 Basic organic chemicals except specialised pharmaceutical chemicals

Manufacture of chemically defined organic compounds (i.e. compounds containing carbon but excluding condensates, polymers and co-polymers, elemental carbon and simple compounds such as calcium carbide, carbon dioxide and carbon disulphide). Manufacture of unrefined coal-tar products (refined coal-tar products are classified to Group 256). Pharmaceutical chemical and preparations are classified to Group 257, pesticide preparations and perfume and flavour chemicals to Group 256.

#### 2513 Fertilisers

Manufacturing or compounding artificial fertilisers. Grinding phosphate rock is included. Meat meal, meat and bone meal, steamed bone flour and meal and hoof and horn meal are classified to Group 412.

#### 2514 Synthetic resins and plastics materials

Manufacture of synthetic resins and plastics materials in the form of solid and liquid resins, latices, solutions, dispersions and emulsions, and moulding and extrusion compounds. Regenerated cellulose film is classified to Group 483.

#### 2515 Synthetic rubber

Manufacture of synthetic rubber, reclaimed rubber and rubber goods are classified to Group 481.

## 2516 Dyestuffs and pigments

Manufacture of synthetic dyestuffs, synthetic organic pigments, including toners and lakes, inorganic pigment colours, ochres and mineral colours, titanium dioxide and vegetable tanning and dyeing extracts.

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 5.

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## **EXPLANATORY NOTES AND DEFINITIONS**

#### INTRODUCTIO

1. These notes give basic information to help with the interpretation of tables in this Industry Report. More general information about the Census is given in a separate Business Monitor — Report on the Census of Production, Introductory Notes (PA1001).

2. Since 1980, Censuses have been conducted on the Standard Industrial Classification Revised 1980 (SIC(80)). The Standard Industrial Classification exists to promote uniformity and comparability in the official statistics of the United Kingdom. The SIC(80) is the result of an attempt to align the United Kingdom classification with the General Industrial Classification of Economic Activities within the European Communities (NACE). It is based on activity rather than commodities produced. A full description of SIC(80) is given in Standard Industrial Classification Revised 1980, optainable from Her Majesty's Stationery Office, price £3.95.

#### REPORTING UNIT

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

- 5. A register of production units throughout the United Kingdom is held on the BSO computer and provides the basis for BSO inquiries to the production sector. For each unit the register contains identification particulars and information about that unit's eligibility for inclusion in an inquiry, its relationship with other units in common ownership, its industrial classification, the nationality of its parent and location indicators for regional analyses. Regional and size analyses of manufacturing units are published in Business Monitor PA1003 Analyses of United Kingdom Manufacturing (Local) Units by Employment Size. 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.
- 6. The annual Census and other inquiries provide a major source of information for updating and checking the register. For establishments on the register making returns to the Quarterly Sales Inquiry, industrial classification is reviewed annually and is derived from an analysis of their commodity sales. Employment data are provided by the Quarterly Sales Inquiry and the Census of Production. Where establishments on the register do not make returns to these inquiries, employment is based mainly on information provided by the Department of Employment from Censuses of Employment. New additions to the register are obtained from various sources including HM Customs and Excise VAT records and Censuses of Employment.

### COVERAGE

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

### PERIOD COVERED

9. 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.

#### STIMATION

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

- 11. Within employment size groups in each industry, the "average per head" is calculated for each census variable by dividing the total returned value for each variable by the total returned employment. This value is multiplied by the employment thought to exist in each non-responding or unselected establishment to yield an estimated value for that establishment. Estimates for items not collected on the shorter form are made in a similar way using returned employment.
- 12. The accuracy of the totals produced by adding together estimates and returned data is mainly dependent on two measures. The first of these is the extent to which establishments making satisfactory returns account for the overall total for any heading. In practice a measure of this is normally taken to be the employment of establishments making satisfactory returns expressed as a percentage of the total estimated employment (this is given in footnote (a) to Table 1). Thus the accuracy of data published in an Industry Report where 95 per cent of the employment in the industry is covered by returns made, will, in general, be better than that in an Industry Report where the coverage is only 70 per cent.
- 13. The second measure is the extent to which individual headings in an Industry Report are related to employment. Thus an estimate of total earnings which bears a close relationship to total employment is likely to be more accurate than an estimate of capital expenditure where the relationship to employment is not so clearly marked.

## SUPPRESSION OF INFORMATION RELATING TO INDIVIDUAL UNDERTAKINGS

- 14. Sub-section 9(5)(b) of the Statistics of Trade Act 1947 states that:
- "The following provisions shall have effect with respect to any report, summary or other communication to the public of information obtained under the foregoing provisions of this Act —

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

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

## **CHANGES MADE FOR 1984**

16. The 1984 Census was a benchmark one with a larger number 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

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 non-deductible VAT but exclude deductible VAT. No allowance is made for depreciation, amortisation or obsolescence.

### a. on LAND AND EXISTING BUILDINGS

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

## b. on NEW BUILDING WORK

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

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, amounts payable to transport firms or credited to establishments' own transport departments for delivery of materials. The figures are net of the value of goods or packaging materials returned to suppliers and trade discounts receivable. Materials purchased duty-paid are included at their duty-paid value less drawbacks, rebates etc. Imported goods are included at their full delivered cost. If the transport from docks or airport of imported goods is not included in the cost of goods purchased, the cost is entered at cif plus duty, if applicable. Transfers of goods to an establishment from other departments of the organisation not covered by the return are included at the estimated selling value recorded by the other departments

REMUNERATION PAID TO OUTWORKERS

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

SALES OF GOODS PRODUCED

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

STOCKS

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

WAGES AND SALARIES

44. This represents amounts paid during the year to ADMINISTRATIVE, TECHNICAL AND CLERICAL EMPLOYEES and to OPERATIVES. All overtime payments, bonuses, commissions, holiday pay and redundancy payments, less any amounts reimbursed 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.

PA251

Output and costs, 1980–1984

All United Kingdom establishments classified to the industry (a)

13 The names and definitions of the instructions of the responden	Unit	1980	1981	1982	1983	1984
Enterprises	Number	755	759	812	827	982(b)
Establishments	,, ,,	933	935	974	980	1,127(b)
Sales of goods produced	£ million	6,913.6	7,227.9	7,270.1	8,250.3	9,257.4
Work done and industrial services rendered	e Photo mas stress work as expensioned	131.1	90.7	103.2	115.7	128.9
Capital goods produced for establishments' own use	0 " " " " " " " " " " " " " " " " " " "	67.9	54.3	39.2	27.1	30.9
Non-industrial services rendered	"	51.0	63.9	59.8	54.0	60.6
Goods merchanted or factored	or surrespens	887.4	1,024.5	1,133.1	1,682.3	2,073.9
Total sales and work done	and ", hron	8,050.9	8,461.2	8,605.5	10,129.4	11,551.8
Increase during the year, work in progress and goods on hand for sale		-62.5	42.0	-1.1	47.5	59.4
Gross output	at of "en such	7,988.4	8,503.2	8,604.4	10,176.8	11,611.2
Purchases of materials for use in production, and packaging and fuel	OWK.,	4,644.8(c)	5,054.0(c)	5,048.4(c)	5,439.7(c)	6,151.9(c)
Purchases of goods for merchanting or factoring	at any	732.2	875.4	1,000.2	1,544.3	1,870.9
Increase during the year, stocks of materials, stores and fuel	HOW AND CO	-51.3	18.1	2.9	48.5	39.4
Cost of industrial services received	new pixel pacon	211.0	182.4	222.4	245.2	262.3
Excise payments etc. (net) (c)	***************************************	(c)	(c)	(c)	(c)	(c)
Net output	in written off	2,349.0	2,409.6	2,336.3	2,996.2	3,365.5
Total employment	Thousand	129.9	113.3	104.2	94.4	93.5
Net output per head	£	18,082	21,272	22,431	31,738	35,990
Cost of non-industrial services received						
Hire of vehicles, plant and machinery	£ million	52.0	54.1	59.5	63.0	58.9
Rents of industrial and commercial buildings	,,	10.4	9.9	14.8	22.4	17.7
Commercial insurance premiums	"	37.8	35.0	33.2	30.1	35.2
Bank charges		1.2	1.1	1.3	1.6	1.9
Other non-industrial services		372.1	388.3	424.3	427.3	507.4(d)
Licensing of motor vehicles		1.7	1.8	1.9	1.8	2.0
Rates, excluding water rates	"	51.5	55.3	61.3	60.4	63.2
Gross value added at factor cost	roight on soc	1,822.2	1,864.0	1,740.1	2,389.7	2,679.3
Gross value added at factor cost per head	£	14,027	16,456	16,706	25,313	28,651

(a) Satisfactory returns accounted for 92 per cent of employment within the industry in 1984.

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

(c) Excise payments etc. (net) included in Purchases of materials for use in production, and packaging and fuel.

(d) Includes the cost of transport of goods by road (within the UK) of £186,042 thousand and postal and telecommunication costs of £20,394 thousand. These were collected separately for 1984 but not for the other years shown in the table.

TABLE 2

Capital expenditure, 1980—1984

All United Kingdom establishments classified to the industry

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PA251

enderk, in a		1980	1981	1982	1983		1984	
						- al nem		medical car
and and building	S							
New building v	vork	44.2	42.4	19.4	25.9		26.9	
Land and exist	ing buildings							
Acquisition	s	4.4	6.8	3.9	9.9		9.9	
Disposals		4.1	4.5	5.2	6.4		5.6	
Net		44.5	44.7	18.1	29.4		31.2	
Plant and machine	гу							
Acquisitions		563.6	344.7	335.9	372.1		335.4	
Disposals		39.9	8.5	6.3	17.6		9.5	
Net		523.7	336.2	329.6	354.5		325.9	
/ehicles								
Acquisitions		16.7	9.2	15.0	13.0		17.3	
Disposals		4.2	3.6	5.8	4.6		6.8	
Net		12.5	5.6	9.2	8.4		10.5	
Total net ca	apital expend	liture 580.7	386.5	356.8	392.3		367.7	

## TABLE 3

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

						£ million
	1980	1981	1982	1983	1984	
3a. Increase during year						
Materials, stores and fuel	-51.3	18.1	2.9	48.5	39.4	
Work in progress	-40.9	34.9	-10.6	12.4	-10.5	
Goods on hand for sale	-21.6	7.1	9.6	35.1	70.0	
Total	-113.8	60.2	1.8	96.0	98.9	

Total	1,507.2
Goods on hand for sale	759.8
Work in progress	200.8
	- stag excluded from the table - was £27 thousand.
3b. Value at end of year	
	in each size group. Bocause un enfortarise may own establishments in more

TABLE 4

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 group		Estab- lish- ments	Enter- prises (b)	Employme	nt		Wages and sa	alaries (c)		
				Total, including working proprietors	Opera- tives	Admin- istrative, technical and clerical	Operatives		Administra technical a	nd clerical
							Total	per head	Total	per head
deviantants	21.2	Number	Number	Thousand	Thousand	Thousand	£ million	£	£ million	£
1-9		650	633	2.2)						
10-19		176	169	2.4)	8.0	4.7	63.5	7,973	46.9	9,948
20-49		104	99	3.2)	8.0	8.8	03.5	7,973	40.9	9,946
50-99		70	63	4.8)						
100-199		44	38	6.4	3.8	2.6	31.7	8,359	24.7	9,519
200-299		21	20	5.0	3.1	1.9	29.1	9,439	19.8	10,314
300-399		12	11	4.3	2.6	1.7	25.2	9,758	18.8	11,093
400-499		14	13	6.2	3.7	2.5	33.9	9,211	28.0	11,300
500-749		15	E1.18%	9.2	5.3	3.9	53.7	10,183	48.5	12,400
750-999		4	4	3.6	2.1	1.5	22.0	10,604	19.7	13,135
,000-1,499		5	4	6.0	3.4	2.6	30.7	8,910	30.7	11,874
,500 plus		12	6	40.2	25.2	15.0	245.8	9,763	198.2	13,207

Total	1,127	982	93.5	57.1	36.4	535.5	9,385	435.4	11,957	

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 and work done	Gross output	Net output	serr casses: expenditure	Gross value added at factor cost	Net capital Total stocks expenditure and work in progress at
					end of year
		9.0		6.0	
		Total	per head	Total per head	
£ million	£ million	£ million	£	£ million £	£ million £ million
			78.7		
1,169.9	1,185.8	345.9	27,216	(d) (d)	24.6 159.5
632.4	640.1	165.2	25,893	384,3(d) 20,226(d)	17.8 77.7
469.0	474.2	171.7	34,294	139.9 27,938	20.2 71.7
737.3	737.5	221.8	51,866	194.7 45,524	10.6 79.1
671.2	676.7	176.6	28,684	135.1 21,943	19.7 105.2
1,647.9	1,680.2	556.2	60,510	470.2 51,156	93.4 249.6
398.7	391.3	102.7	28,703	68.0 18,999	24.9 75.7
1,033,5	1,016.5	186.9	30,987	149.3 24,747	17.2 77.9
4,791.8	4,808.6	1,438.6	35,800	1,137.9 28,318	139.2 610.8

11,551.8	11,611.2	3,365.5	35,990	2,679.3	28,651	367.7	1,507.2
							health has satisfied that an

<sup>(</sup>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.

<sup>(</sup>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 £214.6 million. The remuneration of outworkers on returns received — also excluded from the table — was £27 thousand.

<sup>(</sup>d) Gross value added data relate to establishments employing 1–199

Area

Gross value

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

Accounting y	year ended	Percen	tage of total retur	rns received	Percentage of	Percentage of total employment			
1984 6–3	0 April	1.7	de Cachor de la faction cost		0.2	TV 4) NO SETTED	Anow Single		
	May	2.2			0.2				
	June	4.7			1.5				
	July	0.9			0.2				
	August	0.9			0.1				
	September	3.4			0.6				
	October	0.9			0.2				
	November	0.9			0.3				
	December	68.2			87.8				
1985	January	0.4			0.2				
	February	0.4			31.7 S.88 E.366				
	1 March-5 April	15.4			8.7				

**TABLE 6**Operating ratios, 1980–1984
All United Kingdom establishments classified to the industry

	Unit	1980	1981	1982	1983	1984
Gross output per head	£	61,492	75,069	82,609	107,800	124,165
Net output per head	£	18,082	21,272	22,431	31,738	35,990
iross value added per head	£	14,027	16,456	16,706	25,313	28,651
Gross value added as a percentage of ross output	%	23	22	20	23	23
atio of gross output to stocks		6.2	6.4	6.2	7.3	7.7
Vages and salaries as a percentage of ross value added	%	53	52	56	39	36
atio of operatives to administrative, echnical and clerical employees		1.7	1.6	1.6	1.6	1.6
lages and salaries per operative	£	6,692	7,534	8,277	9,063	9,385
ages and salaries per administrative, echnical and clerical employee	£	8,575	10,221	10,907	11,327	11,957
let capital expenditure per head	£	4,470	3,412	3,426	4,155	3,932
et capital expenditure as a percentage f gross value added	%	32	21	21	16	14

## TABLE 7

Total

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

		employm	ent (a)	expenditu	ire (b)	output (c)		added at factor cost (c	Enterprises (
			838		£6,24			54.6 Introde	Work done and Inc
	2.7	Thousand	ds per cent of United Kingdom	£ million	per cent of United Kingdom	£ million	per cent of United Kingdom	f £ million	per cent of United Kingdom
Standard region	ns of								
England									
North		21.0	22.4	75.2	20.4	866.8	25.8	700.0	26.1
Yorkshi Humber	re and	11.2	12.0	31.8	8.6	314.4	9.3	246.1	9.2
East Mic		4.0	4.3	8.1	2.2	96.9	2.9	75.0	2.8
East An	glia	1.9	2.0	4.0	1.1	49.9	1.5	38.0	1.4
South E	ast	10.3	(a) A. \(\tau\)	32.5	8.8	445.3	13.2	361.9	13.5
South W	/est	2.6	2.8	10.1	2.8	86.2	2.6	68.3	2.6
West Mi	dlands	5.2	5.5	8.8	2.4	144.1	4.3	123.6	4.6
North W	/est	23.5	25.1	157.6	42.9	883.5	26.2	671.2	25.0
England		79.6	85.1	328.1	89.2	2,887.0	85.8	2,284.1	85.2
Wales		4.3	4.6	17.6	4.8	119.2	3.5	88.6	9 4 3.3 Nag 98 ox 3
Scotland		7.9	8.4	9.7	2.6	313.4	9.3	270.4	10.15700 302/
Great Britain		91.8	98.2	355.4	96.7	3,319.6	98.6	2,643.1	98.6
Northern Irelan	nd	1.7	308,1.8	12.3	3.3	45.9	1.4	36.2	1.3
United Kingdo	m	93.5	100.0	367.7	100.0	3,365.5	100.0	2,679.3	100.0

Net

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

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

<sup>(</sup>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.

TABLE 8

Output and costs, 1984

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

	Unit		2511		2512		2513
Enterprises	Numbe	er	158	bristika	128	yelgens	105
Establishments	,,		183		156		125
Sales of goods produced	£ milli	on	1,115.3		4,443.0		1,152.1
Work done and industrial services rendered	,,		12.4		51.6		5.4
Capital goods produced for establishments' own use	Control V		4.4		17.6		2.7
Non-industrial services rendered	"		3.1		31.7		18.4
Goods merchanted or factored	,,		109.4		1,394.5		193.5
Total sales and work done	"		1,244.5		5,938.3		1,372.2
Increase during the year, work in progress and goods on hand for sale			-1.3		43.0		9.2
Gross output	95 ,,		1,243.2		5,981.4		1,381.3
Purchases of materials for use in production, and packaging and fuel			657.8(b)		3,077.4(b)		725.3(b)
Purchases of goods for merchanting or factoring			92.6		1,268.4		172.5
Increase during the year, stocks of materials, stores and fuel	E.A."		9.7		6.0		14.3
Cost of industrial services received	"		26.0		136.1		25.2
Excise payments etc. (net)	"		(b)		(b)		(b)
Net output	E. 0 "		476.4		1,505.5		472.6
Total employment	Thousa	nd	15.1		32.8		13.7
Net output per head	£		31,452		45,868		34,525
Cost of non-industrial services received							
Hire of vehicles, plant and machinery	£ millio	on	6.3		27.5		8.5
Rents of industrial and commercial buildings	"		1.9		5.3		4.6
Commercial insurance premiums	"		5.0		15.7		4.2
Bank charges	"		0.4		0.4		0.2
Other non-industrial services	,,		73.9		200.0		100.2
Licensing of motor vehicles	,,		0.6		0.5		0.5
Rates, excluding water rates	,,		8.9		27.4		8.7
Gross value added at factor cost	,,		379.3		1,228.7		345.8
Gross value added at factor cost per head	£		25,042		37,435		25,261

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.

2514	2515	2516	Emilion
543	20	71	
563	21	79	
1,595.1	233.9	718.1	
4.6	0.3	54.6	
2.9	0.2	3.1	
1.8	0.3	5.4	
250.7	13.5	112.2	
1,855.0	248.3	893.5	
1.1	2.3	5.1	
1,856.1	250,6	898.6	
1,089.1(b)	144.0(b)	458.3(b)	
228.9	13,4	95.1	
0.4	1.4	7.6	
27.8	5.9	41.2	
(b)	(b)	(b)	
510.8	88.6	311.6	
17.5	1.9	12.4	
29,185	46,500	25,032	
12.0	1.2	3.3	
5.3	0.1	0.4	
6.0	0.9	3.4	
0.5	0.1	0.4	
93.7	9.9	29.7	
0.2	109.17	0.1	
9.5	0.8	7.9	
383.5	75.6	266.4	
21,912	39,667	21,401	

<sup>(</sup>b) Excise payments etc. (net) included in Purchases of materials for use in production, and packaging and fuel.

TABLE 9

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

tinterories	Namedala	2511	2512	2513	
Land and buildings					
New building work		6.9	12.3	1.808 ( 3.8	
Land and existing buildings					
Acquisitions		3.4	2.5	2.7	
Disposals		1.0	3.0	0.3	
Net		9.3	11.8	6.2	
Plant and machinery					
Acquisitions		47.6	149.4	57.2	
Disposals		0.8	0.9	6.5	
Net		46.8	148.5	50.7	
/ehicles					
Acquisitions		3.4	3.5	(317.000,1 73.5 5.4	
Disposals		0.9	0.9	3.5	
Net		2.5	2.6	1.9	
Total net capital expenditure		58.6	162.8	58.8	

TABLE 10

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

Total	176.9	640.5		196.4
Goods on hand for sale	70.5	333.1		115.5
Work in progress	20.1	84.5		13.4
Materials, stores and fuel	86.3	222.9		67.4
10b. Value at end of year				
Order with police of forth 6895	6/0/3	1,228.7	, G.8794 Sag	
Total on water race 9.5	8.4	49.0		23.4
Goods on hand for sale	11.9	44.8		6.0
Work in progress	-13.2	-1.8		3.2
Materials, stores and fuel	9.7	6.0		14.3
10a. Increase during year				
	2511	2512	_ 8.8	2513

£ million

			3 inU
 2514		2515	2516
	182,231	82,069	Scross output per head
2.1		0.8	MONITOR" Sterning Books suley zono
0.5		0.1	gross output 8.00
1.1		2.0	0.2 Xoote.of rugruo excrip to offe?
1.5		0.9	reference and enquiry services to the selection of Business Monitor published to the selection of the select
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			overnment Services So.1 mass and shells the services
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1.0		407121 mg 403	0.5 hebbs ruley samp t
2.2		0.1	1.2
39.1		15.8	Mistics Office Library 32.5

TABLE 10

£ million

	2516	2515		2514	
Post ind ments many and	id Industry.	Dapartma <del>ssas, Lrad</del> a ar	39,667	-	
	7.6	1.4		0.4	
		CONLIGNIS		1.0	
	2.0	0.4		-1.2	
	3.1	1.9		2.3	
		3.7		1.6	
				Hammen	
	74.4	10.2		85.4	
		2,232			
	56.7	3.8		22.3	
	93.6	26.4		120.7	
	224.7	40.5		228.4	

TABLE 11

Operating ratios, 1984

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

	Unit	2511	2512		2513
			2013	2814	400
Gross output per head	£	82,068	182,231		100,915
Net output per head	£	31,452	45,868		34,525
Gross value added per head	£	25,042	37,435		25,261
Gross value added as a percentage of					
gross output	%	31	21		25
Ratio of gross output to stocks		7.0	9.3		7.0
Nages and salaries as a percentage of					
gross value added	%	42	29		43
Ratio of operatives to administrative,					
echnical and clerical employees		1.8	1.5		1.6
Vages and salaries per operative	£	9,984	9,514		9,675
Vages and salaries per administrative,					
echnical and clerical employee	£	11,663	12,655		12,499
let capital expenditure per head	£	3,870	4,961		4,294
let capital expenditure as a percentage					5.4
f gross value added	%	15	13		17

PA251

TABLE 11

Operating ratios, 1984

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

	Unit	2514	2515	2516
Gross output per head	£	106,059	131,481	72,187
Net output per head	£	29,185	46,500	25,032
Gross value added per head	£	21,912	39,667	21,401
Gross value added as a percentage of gross output	%	21	30	30
Ratio of gross output to stocks		8.1	6.2	4.0
Wages and salaries as a percentage of gross value added	%	43	30	46
Ratio of operatives to administrative, echnical and clerical employees		1.5	1.6	1.6
Nages and salaries per operative	£	8,532	11,645	8,793
Nages and salaries per administrative, echnical and clerical employee	£	10,696	12,590	11,501
Net capital expenditure per head	£	2,232	8,304	2,614
Net capital expenditure as a percentage of gross value added	%	10	21	12

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