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**BUSINESS STATISTICS OFFICE** 

# **Business Monitor**

# Report on the Census of Production

Telecommunication equipment, electrical measuring equipment, electronic capital goods and passive electronic components



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.

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# PA344

**BUSINESS MONITOR** A publication of the Government Statistical Service

Report on the

1985

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** 

# **Census of Production**

Telecommunication equipment, electrical measuring equipment, electronic capital goods and passive electronic components

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	38
PA210	Extraction and preparation of metalliferous ores	-1
PA221	Iron and steel industry	1
PA222	Steel tubes	-2
PA223	Drawing, cold rolling and cold forming of steel	0
PA224	Non-ferrous metals industry	-18
PA231	Extraction of stone, clay, sand and gravel Extraction of miscellaneous minerals (including salt)	-6
PA239		-1
PA241	Structural clay products	0
PA242	Cement, lime and plaster Building products of concrete, cement or plaster	-9
PA243		0
PA244	Asbestos goods	-2
PA245	Working of stone and other non-metallic minerals Abrasive products	-6
PA246	Glass and glassware	2
PA247	Refractory and ceramic goods	1
PA248 PA251	Basic industrial chemicals	0
PA251 PA255	Paints, varnishes and printing ink	1
PA255 PA256	Specialised chemical products mainly for industrial and agricultural purposes	1
PA250 PA257	Pharmaceutical products	1
PA257	Soap and toilet preparations	0
PA258	Specialised chemical products mainly for household and office use	0
PA259 PA260	Production of man made fibres	0
PA200	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

BUSINESS MONITORS MAKING UP THE COMPLETE CENSUS REPORT (continued)

PA353	Motor vehicle parts
PA361	Shipbuilding and repairing
PA362	Railway and tramway vehicles
PA363	Cycles and motor cycles
PA364	Aerospace equipment manufacturing and repairing
PA365	Miscellaneous vehicles
PA371	Measuring, checking and precision instruments and apparatus
PA372	Medical and surgical equipment and orthopaedic appliances
PA373	Optical precision instruments and photographic equipment
PA374	Clocks, watches and other timing devices
PA411	Organic oils and fats
PA412	Slaughtering of animals and production of meat and by-products
PA413	Preparation of milk and milk products
PA414	Processing of fruit and vegetables
PA415	Fish processing
PA416	Grain milling
PA419	Bread, biscuits and flour confectionery
PA420	Sugar and sugar by-products
PA421	Ice-cream, cocoa, chocolate and sugar confectionery
PA422	Animal feeding stuffs
PA423	Starch and miscellaneous foods
PA424	Spirit distilling and compounding
PA426	Wines, cider and perry
PA427	Brewing and malting
PA428	Soft drinks Tobacco industry
PA429	Woollen and worsted industry
PA431 PA432	Cotton and silk industries
PA432 PA433	Throwing, texturing, etc. of continuous filament yarn
PA433	Spinning and weaving of flax, hemp and ramie
PA435	Jute and polypropylene yarns and fabrics
PA436	Hosiery and other knitted goods
PA437	Textile finishing
PA438	Carpets and other textile floorcoverings
PA439	Miscellaneous textiles
PA441	Leather (tanning and dressing) and fellmongery
PA442	Leather goods
PA451	Footwear
PA453	Clothing, hats and gloves
PA455	Household textiles and other made-up textiles
PA456	Fur goods
PA461	Sawmilling, planing, etc. of wood
PA462	Manufacture of semi-finished wood products and further processing
PA463	Builders carpentry and joinery
PA464	Wooden containers
PA465	Miscellaneous wooden articles
PA466	Articles of cork and plaiting materials, brushes and brooms
PA467	Wooden and upholstered furniture and shop and office fittings
PA471	Pulp, paper and board
PA472	Conversion of paper and board
PA475	Printing and publishing
PA481	Rubber products
PA483	Processing of plastics
PA491	Jewellery and coins
PA492	Musical instruments
PA493	Photographic and cinematographic processing aboratories
PA494	Toys and sports goods
PA495	Miscellaneous manufacturing industries
PA500	Construction
PA1002	Summary tables

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ng and treatment of wood

#### PA344 TELECOMMUNICATION EQUIPMENT, ELECTRICAL MEASURING EQUIPMENT, ELECTRONIC CAPITAL GOODS PA344 AND PASSIVE ELECTRONIC COMPONENTS

The information in this report relates to establishments classified to the Telecommunication equipment, electrical measuring equipment, electronic capital goods and passive electronic components industry, Group 344 in the Standard Industrial Classification Revised 1980. The industry Group covers the following Activity Headings:-

#### 3441 Telegraph and telephone apparatus and equipment

Manufacture of line telephone and telegraph apparatus of all kinds, including exchange equipment, switchboards, teleprinters, subscribers' apparatus, etc. The manufacture of parts specialised to telecommunication apparatus, e.g. dials, handsets is included.

3442 Electrical instruments and control systems

Manufacture of meters, instruments and control systems dependent on electric or electronic technology for the function of measurement

#### 3443 Radio and electronic capital goods

Manufacture of transmitters for radio and television broadcasting, wireless telephony and telegraphy including microwave links and relay stations, studio electronic equipment including television cameras, closed-circuit apparatus, monitors, etc., radio communication receivers, walkie-talkies, radar and electronic navigational aids, aerials for transmitting and receiving radio communications (nondomestic), X-ray apparatus and similar apparatus using radio sources, electro medical apparatus for diagnostic and treatment purposes, including hearing aids. Manufacture of audio and video tape recorders is classified to Group 345.

#### 3444 Components other than active components, mainly for electronic equipment

Manufacture of resistors, capacitors, inductors, transformers (IF, RF and AF), switches, relays, rectifiers (other than diodes, which are classified to Group 345), printed circuits, connectors, circuit protection devices for telecommunication, electronics and instrumentation purposes. Manufacture of specialised cases and racking, etc. for these applications is included.

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 th	e tables it is essential to bear	
		in mind the notes and definitio	ns which commence on page 5.	
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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).

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 Maiesty's Stationery Office, price £3.95

#### REPORTING UNIT

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

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

#### THE REGISTER

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

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

#### 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.

Under the sampling arrangements agreed for the 1985 Census, forms were despatched to all establishments with 100 or more employed and, for most production industries, samples of 1 in 4 and 1 in 2 respectively being taken for establishments in the 20 to 49 and 50 to 99 employment size bands. For industries where there were few units in the sample size band or where response in earlier Years was poor, it was necessary to increase the sample. About 16,800 forms were despatched to production establishments in the United Kingdom for the 1985 Census.

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#### PERIOD COVERED

Establishments were asked to make returns for the calendar year 1985 but, where this was not possible, returns for business years ending between 6 April 1985 and 5 April 1986 were accepted. Returns covering fewer than twelve months were accepted for businesses which had started or ceased trading during the year.

#### ESTIMATION

10. All published Census results include estimates for nonresponders, unsatisfactory returns and establishments not selected 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.

The second measure is the extent to which individual 13 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

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

#### CHANGES MADE FOR 1985

16. The 1985 Census was a slimline one with fewer establishments receiving inquiry forms than in 1984, due to the increased use of sampling. The additional questions in the 1984 Census relating to road transport costs, and postal and telecommunications costs were excluded for 1985.

#### SYMBOLS USED

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

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

#### EMPLOYMENT

28. This is the average number of ADMINISTRATIVE, TECHNICAL AND CLERICAL EMPLOYEES and OPERATIVES on the payroll and the number of WORKING PROPRIETORS employed during the year of return. Full-time and part-time employees are included but outworkers (i.e. people who worked in their own homes on materials supplied by establishments) and casual employees such as jobbers are excluded. The average number of employees returned by individual establishments may have been calculated by, for example, the average of the number of employees on the payroll for the last week of each calendar month.

## a. ADMINISTRATIVE, TECHNICAL AND CLERICAL EMPLOYEES

29. This includes directors who received a definite wage, salary or commission, managers, foremen, draughtsmen, editorial and advertising staff, travellers, all office employees and research and design employees other than operatives.

#### b. OPERATIVES

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

#### c. WORKING PROPRIETORS

31. These are people who are regarded as self-employed for national insurance purposes, members of their families who worked in the business without receiving a definite wage or salary for at least half the normal working hours and directors who worked in the business but did not receive a definite wage, salary or commission. Part-time directors paid by fee only and directors who received a definite wage, salary or commission are excluded.

#### GROSS OUTPUT

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

#### GROSS VALUE ADDED AT FACTOR COST

33. This is calculated by deducting from NET OUTPUT the COST OF NON-INDUSTRIAL SERVICES RECEIVED, RATES and the cost of LICENSING OF MOTOR VEHICLES. This estimate of gross value added approaches more closely than NET OUTPUT the definition of net output or value added in national accounts statistics.

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

#### NET CAPITAL EXPENDITURE

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

#### NET OUTPUT

36. This is a traditional census measure calculated by deducting from GROSS OUTPUT the cost of PURCHASES OF MATERIALS FOR USE IN PRODUCTION AND PACKAGING AND FUEL and PURCHASES OF GOODS FOR MERCHANTING OR FACTORING, the COST OF INDUSTRIAL SERVICES RECEIVED and is adjusted for net duties and levies etc. where applicable. Purchases are adjusted for changes during the year of STOCKS OF MATERIALS, STORES AND FUEL.

#### NET OUTPUT PER HEAD

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

#### NON-INDUSTRIAL SERVICES RENDERED

38. This includes amounts charged for the hire of vehicles, plant and machinery, for the rent of industrial and commercial buildings, for the right to use patents, trade marks, copyrights etc., for manufacturing and quarrying rights, for technical 'know-how' and for the provision of transport to other organisations. It also includes revenue from staff facilities such as canteens.

#### OPERATING RATIOS

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

and built of the sample also bends, for adlating where mail being few traits in the sample also band or where response in each fers was poor, if was necessary to increase the sample. Abs (BEQ) forms were despetched to production establishments in t insted Kingdom for the 1985 Garaus. 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, semi-40. manufactured goods and workshop materials, replacement parts and consumable tools not charged to capital account, packaging materials of all types, stationery and printed matter, fuel, electricity and water, materials of all types used by the establishments or given out to other establishments for the production of machinery or other capital items for the establishments' own use and materials for use by the establishments when working on goods supplied by customers. The figures exclude VAT, purchases of machinery and plant, which are included in CAPITAL EXPENDITURE, and amounts payable to transport firms or credited to establishments' own transport departments for delivery of materials. The figures are net of the value of goods or packaging materials returned to suppliers and trade discounts receivable. Materials purchased duty-paid are included at their duty-paid value less drawbacks, rebates etc. Imported goods are included at their full delivered cost. If the transport from docks or airport of imported goods is not included in the cost of goods purchased, the cost is entered at cif plus duty, if applicable. Transfers of goods to an establishment from other departments of the organisation not covered by the return are included at the estimated selling value recorded by the other departments.

#### REMUNERATION PAID TO OUTWORKERS

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

#### SALES OF GOODS PRODUCED

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

#### STOCKS

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

#### WAGES AND SALARIES

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

#### WORK DONE AND INDUSTRIAL SERVICES RENDERED

45. This includes amounts charged for work carried out including that done by sub-contractors on customers' materials including amounts charged by establishments for materials supplied by them in the course of such work and for industrial services such as repairs and maintenance, installation work and technical research and studies rendered to other organisations. For certain industries this heading covers a wide variety of activities, for example, butter packed on commission in the food industries, making up of garments, fur dressing and textile finishing in the textile industries, and preparatory work on typesetting, block making and binding in the printing and publishing industries. Work done is an important part of the activities of the electrical machinery and heavy engineering industries, and includes erection, installation and repair and jobbing work.

#### WORK IN PROGRESS

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

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taries to they be an instantion account of 88 per penal of employed for

b) Use of a new register of microesses for 1984 has affect has led to the estimated total employment cang increvariables are dependent upon employment and me ch figures in this publication. Farther information is graen

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#### TABLE 1

Output and costs, 1981-1985 All United Kingdom establishments classified to the industry (a)

	Unit	1981	1982	1983	1984	1985
				1.600		ATT AND YO
nterprises	Number	1,644	1,588	1,603	2,523(b)	2,658
stablishments	"	1,901	1,829	1,830	2,739(b)	2,909
ales of goods produced	£ million	4,250.8	4,726.6	5,282.5	6,372.3	6,768.3
Vork done and industrial services endered		413.2	473.5	350.1	439.4	442.6
apital goods produced for establish- nents' own use		12.0	15.1	13.9	18.7	21.4
on-industrial services rendered		68.1	91.9	50.8	64.6	65.5
oods merchanted or factored	n.	313.0	372.2	454.7	635.9	564.1
Total sales and work done	0	5,057.1	5,679.3	6,152.0	7,530.8	7,862.0
crease during the year, work in rogress and goods on hand for sale		107.6	23.1	140.3	136.3	66,1
Gross output		5,164.7	5,702.5	6,292.3	7,667.1	7,928.1
urchases of materials for use in pro- uction, packaging and fuel		1,838.2	2,030.0	2,275.9	2,986.4	3,083.5
irchases of goods for merchanting or ctoring		222.5	273.7	337.7	483.0	402.0
crease during the year, stocks of aterials, stores and fuel		-2.9	42.2	25.5	136.2	27.1
ost of industrial services iceived		186.9	193.6	224.2	259.7	236.6
Net output	u	2,914.2	3,247.3	3,480.0	4,074.2	4,233.1
otal employment	Thousand	238.1	225.9	222.1	230.9(b)	222.5
Net output per head	£	12,239	14,372	15,670	17,644	19,024
ost of non-industrial services ceived						
Hire of vehicles, plant and machinery	£ million	28.7	33.3	35.7	40.7	46.5
Rents of industrial and commercial buildings		37.8	38.6	42.4	46.3	49.2
Commercial insurance premiums	u.	24.6	20.8	19.3	23.0	27.1
Bank charges	н	2.8	3.2	3.8	4.0	5.1
Other non-industrial services	н	247.0	264.6	320.3	394.0	431.0
censing of motor vehicles	н	1.0	1.1	1.0	1.3	1.4
tes, excluding water rates		30.0	32.8	33.9	39.2	39.6
Bross value added at factor cost	n	2,542.4	2,853.0	3,023.4	3,525.7	3,633.3
Gross value added at factor cost per head	f	10,677	12,627	13,615	15,268	16,329

(a) Satisfactory returns accounted for 88 per cent of employment within the industry in 1985.

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

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#### NORK IN PROGRESS

46. This represents materials which have been partially processes and are availing further programp before being sold at transferred Progress payments made to sub-contractors are evoluted are progress payments received from other organisations are not deducted.

#### TABLE 2

PA344

Capital expenditure, 1981-1985 All United Kingdom establishments classified to the industry

31.8 19.0 3.4 47.4 167.7 10.7 157.0	37.1 14.1 8.0 43.2 188.3 12.8 175.5	
19.0 3.4 47.4 167.7 10.7	14.1 8.0 43.2 188.3 12.8	5. 2016 2016 2016
3.4 47.4 167.7 10.7	14.1 8.0 43.2 188.3 12.8	one a
3.4 47.4 167.7 10.7	8.0 43.2 188.3 12.8	one a
47.4 167.7 10.7	43.2 188.3 12.8	ent. 01
167.7 10.7	188.3 12.8	
167.7 10.7	188.3 12.8	
10.7	12.8	
157.0	175.5	
14.7	17.4	
5.6	5.7	
34	5.4.8	
9.1	11.7	
213.6	230.4	
619	6.285.6	
	63 68	

All United Kingdom establishments classified to the industry

and and					£ million
1981	1982	1983	1984	1985	Value at end of 1985
		Increase dur	ing year		
-2.9	42.2	25.5	136.2	27.1	602.4
78.7	4.1	109.8	121.8	54.1	1,330.1
28.9	19.1	30.5	14.5	12.0	351.0
104.7	65.3	165.8	272.5	93.2	2,283.4
	-2.9 78.7 28.9	1981 1982   -2.9 42.2   78.7 4.1   28.9 19.1	1981 1982 1983   Increase dur   -2.9 42.2 25.5   78.7 4.1 109.8   28.9 19.1 30.5	1981 1982 1983 1984   Increase during year   -2.9 42.2 25.5 136.2   78.7 4.1 109.8 121.8   28.9 19.1 30.5 14.5	1981 1982 1983 1984 1985   Increase during year   -2.9 42.2 25.5 136.2 27.1   78.7 4.1 109.8 121.8 54.1   28.9 19.1 30.5 14.5 12.0

in entered the total carls categories (many in clone righ

rance, trensions and welfare schemes and the running ratimated for the industry at £278.8 million. The reliaded from the table - was £1.839 thousand.

			£ million
1983	1984	1985	oung and sea
25.5	40.6	42.8	
11.1	31.3	22.0	
4.2	5.2	6.3	
32.3	66.7	58.4	
234.4	324.5 808	313.0	
13.2	10.0 000	10.1	
221.2	314.5	302.9	
22.1	21.7	22.0	
6.6	7.1	7.6	
15.4	14.6	14.4	
269.0	395.9	375.8	

PA344

c) The cost of employers, contributients to the netional in objects of cariteens are excluded from the teble but was remuter attorn of outworkers on returns received - also

(a) Gross value added data relates to established entry and

Total

Employment, labour costs, output, net capital expenditure and stocks and work in progress by size of total employment, 1985

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	Administr- ative,tech- nical and clerical	Operatives	in in its	Administrat technical an clerical	
						Total	per	Total	per
							head		head
			a-	6.58	5.84	A STA LINES		6.2	Nove-
	Number	Number	Thousand	Thousand	Thousand	£ million	f	£ million	f
1-9	1,861	1,836	5.9)						
10-19	345	340	4.8)	15.0	11.5	07 1	6,476	118.0	10 200
20-49	230	230	7.7)	15.0	11.5	97.1	0,470	110.0	10,280
50-99	130	123	) 8.7)						
100-199	126	113	18.2	10.3	7.8	68.1	6,586	79.2	10,112
200-299	66	49	15.9	8.7	7.2	56.1	6,432	73.3	10,187
300-399	40	35	13.6	7.9	5.7	48.3	6,120	55.1	9,599
400-499	25	23	11.3	6.4	4.9	42.6	6,706	50.2	10,196
500-749	29	17	17.5	8.3	9.2	71.4	8,589	98.4	10,653
750-999	20	16	16.9	8.8	8.2	65.6	7,497	92.0	11,272
1,000-1,499	15	12	18.2	9.6	8.5	86.9	9,045	93.5	10,942
1,500-1,999	8	6	13.7	7.1	6.6	58.5	8,278	79.5	11,976
2,000-2,499	4	3	9.0	3.9	5.1	36.0	9,345	55.5	10,876
2,500-4,999	5	3	17.6	6.4	11.2	56.4	8,840	110.8	9,864
5,000-Plus	5	4	43.4	20.5	22.9	149.5	7,295	260.8	11,372

(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.

112.8

109.0

836.6

7,418

1,166.3 10,698

(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 £278.8 million. The remuneration of outworkers on returns received - also excluded from the table - was £1,839 thousand.

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

222.5

2,909 2,658

Total sales and work done	Gross output	Net output		Gross va added at factor co		NI STATUS	Net cap expend		Total stocks and work in progress at end of year
									AD:
					B.B.				
		Total	per head	Total	1 (general)	per head			
						neud			
£ million	£ million	£ million	£	£ million	<u>6</u>	£	£ millio	on	£ million
836.5	838.6	448.2	16,503	(	d)	(d)	3	9.7	181.9
565.3	571.5	305.6	16,810	610	.5(d)	13,477(d)	3	3.2	132.2
533.1	536.4	286.2	17,975	233	.3	14,654	2	6.2	134.6
505.8	515.5	277.2	20,324	237	.1	17,385	2	4.9	122.3
397.1	397.1	215.0	19,058	172	.8	15,316	1	7.8	95.4
716.9	702.7	352.0	20,064	294	. 2	16,766	2	2.3	195.2
669.2	650.5	324.4	19,180	274	. 1	16,208	2	9.7	175.9
668.9	689.4	354.4	19,524	306	.4	16,877	4	9.9	260.8
582.7	605.3	319.1	23,282	276	.3	20,154	2	6.3	173.6
374.1	367.6	247.0	27,558	221	.6	24,725	la ememoira 1	3.8	120.2
516.2	560.8	339.6	19,279	317	.6	18,027	2	7.4	312.4
1,496.2	1,492.8	764.3	17,598	689	.4	15,876	6	4.6	378.9

7,862.0	7,928	.1	4,233.1	19,024	
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	112.1	

3,633.3

16,329

375.8

2,283.4

#### TABLE 5

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1

Percentage analysis of twelve-month periods covered by returns received for the 1985 Census by number of returns and total employment

Accounting year ended	rcentage o ceived	f total retu	rns		ercentage of mployment	total	AN WORK	
1985 April 6-30		1.6	Parter do			0.5		i dent
Мау		2.1				0.8		
June		5.4				2.3		
						1.0		
July		2.8				1.8		
August September		2.1 7.3				3.3		
October		3.8				1.9		
November		2.6				2.0		
December		36.4				26.2		
1986 January		3.3				1.4		
February		1.6				0.8		
1 March - 5 April		31.0				56.5		
	centur.	. <u>.</u>		77.975	286.085	536.4.	and the second	1,663.
TABLE 6								
TABLE 6				, M2, R, OC				
Operating ratios, 1981-1985								
All United Kingdom establishments cla	ssified to the	industry						
64-6	018,81	Unit	1981	1982	1983	1984	1985	12,392
Gross output per head		£	21,691	25,238	28,334	33,203	35,630	
Net output per head		£	12,239	14,372	15,670	17,644	19,024	
Gross value added per head		£	10,677	12,627	13,615	15,268	16,329	
Gross value added as a percentage of gross output		%	49	50	48	46	46	
Ratio of gross output to stocks			3.1	3.4	3.3	3.3	3.5	
Nages and salaries as a percentage of gross value added		%	58	54	55	54	55	
Ratio of operatives to administrative, echnical and clerical employees			1.1	1.1	1.1	1.1	1.0	
Nages and salaries per operative		£	5,251	5,748	6,267	6,901	7,418	
Wages and salaries per administrative, technical and clerical employee		£	7,242	8,113	8,700	9,779	10,698	
Net capital expenditure per head		£	897	1,020	1,211	1,715	1,689	
Net capital expenditure as a percentage of gross value added	e	%	8	8	9	11	10	

#### TABLE 7

Regional distribution of employment,net capital expenditure,net output and gross value added at factor cost,1985 All United Kingdom establishments classified to the industry

Area		Total employ (a)	rment	Net capital expenditure (b)		Net outp (c)	ut	Gross va added at factor cos	
823	878		043	DØS		No. 19. 19.		(c)	emanderidese
	2,973.6 256.1	Thousa	of United	£ million	per cent of United	£ million	per cent of United	£ million	per cent of United
			Kingdom		Kingdom		Kingdom		Kingdom
Standard regions of	England								
North		7.0	3.2	10.3	2.7	106.4	2.5	94.0	2.6
Yorkshire and Humberside		3.4	1.5	3.6	1.0	49.8	1.2	42.1	1.2
East Midlands		13.2	5.9	20.2	5.4	234.1	5.5	200.5	5.5
East Anglia		6.7	3.0	10.2	2.7	118.7	2.8	93.3	2.6
South East		112.8	50.7	179.7	47.8	2,271.3	53.7	1,931.6	53.2
South West		18.9	8.5	27.0	7.2	409.5	9.7	352.9	9.7
West Midlands		17.3	7.8	23.3	6.2	294.1	6.9	264.0	7.3
North West	132.0	12.2	5.5	25.1	6.7	255.9	6.0	218.8	6.0
England		191.6	86.1	299.3	79.7	3,739.9	88.3	3,197.2	88.0
Wales		8.3	3.7	16.1	4.3	128.3	3.0	112.0	3.1
Scotland		19.7	8.9	48.5	12.9	329.3	7.8	291.9	8.0
Great Britain	F., RQ	219.6	98.7	363.9	96.8	4,197.6	99.2	3,601.0	99.1
Northern Ireland		2.9	1.3	11.9	3.2	35.5	0.8	32.3	0.9
United Kingdom		222.5	100.0	375.8	100.0	4,233.1	100.0	3,633.3	100.0
(a) Average numbe	er employed du	uring the	year,including	full and part-	time emplo	oyees and v	vorking pro	prietors.	tandangs
(b) New building w and machinery.		sitions le	ss disposals of	f land and exis	sting buildi	ngs, vehicl	es and plan	nd scientinse I	
(c) Where a census to each address region was obta	was made by an and by aggre	assumin gating es	g that net outp timates of net	put was propo output for ad	rtionate to	employme	nt. An estin	nate for eac	
Gross value add	ded at factor c	ost was t	reated similar	ly.					
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#### TABLE 8

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Output and costs, 1985 All United Kingdom establishments classified to each Activity Heading within the industry

	Unit		3441	3442	3443	3444
Enterprises(a)	Numbe	er	261	805	802	842
Establishments			290	843	878	898
Sales of goods produced	£ millio	on	1,690.5	1,093.7	2,973.6	1,010.5
Work done and industrial services rendered	reations 		115.0	60.6	250.1	16.9
Capital goods produced for establish- ments' own use			4.8	4.9	6.9	4.8
Non-industrial services rendered	a		23.4	3.2	37.3	1.6
Goods merchanted or factored			84.7	95.6	247.3	136.4
Total sales and work done			1,918.4	1,258.1	3,515.2	1,170.3
ncrease during the year, work in progress and goods on hand for sale	*		-33.0	11.4	87.0	0.6
Gross output	2.079.3		1,885.4	1,269.5	3,602.2	1,171.0
Purchases of materials for use in pro- luction, packaging and fuel	8.90N <b>.</b> .		777.6	480.2	1,403.6	422.1
Purchases of goods for merchanting or actoring			64.7	75.4	182.0	79.8
ncrease during the year, stocks of naterials, stores and fuel			-11.5	12.7	26.6	-0.8
Cost of industrial services eceived	e 369		36.8	23.4	150.9	25.5
Net output	e.026 "		994.8	703.3	1,892.2	642.8
fotal employment	Thousa	ind	46.8	38.2	94.1	43.4
Net output per head	£		21,249	18,428	20,111	14,797
Cost of non-industrial services eceived						
Hire of vehicles, plant and machinery	£ millio	on	10.4	8.8	18.0	9.3
Rents of industrial and commercial buildings			12.2	6.7	21.6	8.7
Commercial insurance premiums	uls 289 ynu "		5.6	4.1	12.2	5.1
Bank charges	"		0.6	0.9	2.9	0.7
Other non-industrial services	n ant to "ean		76.7	93.8	187.4	73.0
icensing of motor vehicles	to employing		0.2	0.3	0.6	0.2
lates, excluding water rates			7.3	7.5	17.4	7.4
Cases uplus added at factor cost			881.8	581.1	1,632.1	538.4
Gross value added at factor cost						

(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.

### TABLE 9

Capital expenditure, 1985 All United Kingdom establishments classified to each Activity Heading within the industry

		3441	3442	_	3443	3444
Land and buildings						
New building work		12.5	16.0		9.4	4.9
Land and existing b	uildings					
Acquisitions		6.3	9.0		5.0	1.6 best tog bester 1984
Disposals		3.3	1.8		0.7	0.5 sq babba asky 20040
Net Plant and machinery		15.5	23.2		13.7	6.0 second second
Acquisitions		72.7	55.3		110.9	74.1
Disposals		2.1	1.3		2.7	3.9 babbs eidev czorg
Net		70.6	54.0		108.1	70.2. or any tended to ortal technical and clanast employees
Vehicles Acquisitions		2.6	6.4		8.8	4.2
Disposals		0.7	2.7		3.0	sectoreal and clerical (1.1 loyee
Net		1.9	3.7		5.8	Net capital expenditur 1.8r head
Total net capital	expenditure	87.9	80.9		127.6	Net contai expendent <b>2.97</b> percentage of gross value added

#### TABLE 10

Stocks and work in progress, 1985 All United Kingdom establishments classified to each Activity Heading within the industry

					£ million
	3441	3442	3443	3444	
10a Increase during year					
Materials, stores and fuel	- 11.5	12.7	26.6	-0.8	
Work in progress	-23.3	4.0	74.4	-1.0	
Goods on hand for sale	-9.7	7.5	12.6	1.6	
Total	-44.5	24.2	113.6	-0.1	
10b Value at end of year					
Materials, stores and fuel	161.1	125.6	232.0	83.6	
Work in progress	184.3	162.8	906.8	76.1	
Goods on hand for sale	91.1	60.1	124.4	75.4	
Total	436.6	348.6	1,263.3	235.1	

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#### Operating ratios, 1985

instantiane, 1955

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

					and the second
	Unit	3441	3442	3443	3444
Gross output per head	£	40,271	33,267	38,286	26,953
Net output per head	£	21,249	18,428	20,111	14,797
Gross value added per head	£	18,834	15,227	17,346	12,392
Gross value added as a percentage of gross output	%	47	46	45	46
Ratio of gross output to stocks		4.3	3.6	2.9	5.0
Nages and salaries as a percentage of pross value added	%	51	56	56	59
Ratio of operatives to administrative,					
echnical and clerical employees		1.4	1.0	0.7	2.0
Vages and salaries per operative	£	7,401	7,107	8,640	6,040
Vages and salaries per administrative, echnical and clerical employee	£	12,530	10,155	10,443	9,917
let capital expenditure per head	£	1,878	2,121	1,357	1,824
let capital expenditure as a percentage		9.001	6. 14	ortathiaroretico	
f gross value added	%	10	14	8	15

-Incks and work to progress 1985 All United Kingdom establishments classified to each Activity havanie within 2. 6

materials, startis and faileress and an one cash filled is rearrant 100 threaders and 235. Bits, a reason bit for any an analystructure and and start start at an even realization and year an interest of starts and an terms of an and an a most of a start and a start at a start at a start and an a start and a start of an and an and an and an an and a Bater and an anotrona

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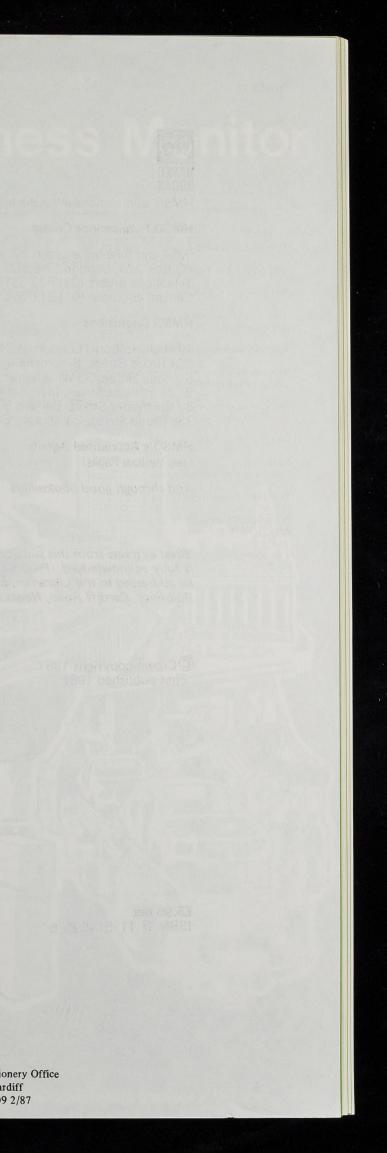
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