

BUSINESS MONITORS

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PA246

BUSINESS MONITOR

A publication of the Government Statistical Service

Report on the Census of Production 1986

Abrasive products

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

BUSINESS MONITORS MAKING UP THE COMPLETE CENSUS REPORT

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

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

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

		Employment percentage variation
PA1001	Introductory notes	
PA111	Coal extraction and manufacture of solid fuels	
PA120	Coke ovens	
PA130	Extraction of mineral oil and natural gas	
PA140	Mineral oil processing	
PA161	Production and distribution of electricity	
PA162	Public gas supply	
PA170	Water supply industry	
PA210	Extraction and preparation of metalliferous ores	38
PA221	Iron and steel industry	-1
PA222	Steel tubes	1
PA223	Drawing, cold rolling and cold forming of steel	-2
PA224	Non-ferrous metals industry	0
PA231	Extraction of stone, clay, sand and gravel	-18
PA239	Extraction of miscellaneous minerals (including salt)	-6
PA241	Structural clay products	-1
PA242	Cement, lime and plaster	0
PA243	Building products of concrete, cement or plaster	-9
PA244	Asbestos goods	0
PA245	Working of stone and other non-metallic minerals	-2
PA246	Abrasive products	-6
PA247	Glass and glassware	2
PA248 PA251	Refractory and ceramic goods	1
PA251 PA255	Basic industrial chemicals Paints, varnishes and printing ink	0
PA255		1
PA250 PA257	Specialised chemical products mainly for industrial and agricultural purposes Pharmaceutical products	1
PA258	Soap and toilet preparations	1
PA259	Specialised chemical products mainly for household and office use	0
PA260	Production of man made fibres	0
PA311	Foundries	-4
PA312	Forging, pressing and stamping	0
PA313	Bolts, nuts, etc; springs; non-precision chains; metals treatment	0
PA314	Metal doors, windows etc	2
PA316	Hand tools and finished metal goods	-1
PA320	Industrial plant and steelwork	4
PA321	Agricultural machinery and tractors	-1
PA322	Metal-working machine tools and engineers' tools	-1
PA323	Textile machinery	0
PA324	Machinery for the food, chemical and related industries; process engineering contractors	2
PA325	Mining machinery, construction and mechanical handling equipment	3
PA326	Mechanical power transmission equipment	14
PA327	Machinery for printing, paper, wood, leather, rubber, glass and related industries; laundry and	
	dry cleaning machinery	-4
PA328	Miscellaneous machinery and mechanical equipment	0
PA329	Ordnance, small arms and ammunition	0
PA330	Manufacture of office machinery and data processing equipment	7
PA341	Insulated wires and cables	2
PA342	Basic electrical equipment	1
PA343	Electrical equipment for industrial use, and batteries and accumulators	3
PA344	Telecommunication equipment, electrical measuring equipment, electronic capital goods and	2
PA345	passive electronic components Miscellaneous electronic equipment	2
PA345 PA346		3
PA340 PA347	Domestic-type electric appliances	1
PA347 PA351	Electric lamps and other electric lighting equipment Motor vehicles and their engines	13
PA351 PA352	Motor vehicle bodies, trailers and caravans	0
		-3

BUSINESS MONITORS MAKING UP THE COMPLETE CENSUS REPORT (continued)

percentage variation PA353 Motor vehicle parts -2 PA361 Shipbuilding and repairing 0 PA362 Railway and tramway vehicles 0 PA363 Cycles and motor cycles 0 Aerospace equipment manufacturing and repairing PA364 0 PA365 Miscellaneous vehicles 2 PA371 Measuring, checking and precision instruments and apparatus 1 PA372 Medical and surgical equipment and orthopaedic appliances -8 PA373 Optical precision instruments and photographic equipment 1 PA374 Clocks, watches and other timing devices 0 PA411 Organic oils and fats 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 Woollen and worsted industry -2 PA432 Cotton and silk industries 3 PA433 Throwing, texturing, etc. of continuous filament yarn -3 PA434 Spinning and weaving of flax, hemp and ramie -3 PA435 Jute and polypropylene yarns and fabrics 0 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 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 5 PA481 Rubber products -1 PA483 Processing of plastics 2 PA491 Jewellery and coins 1 PA492 Musical instruments -5 PA493 Photographic and cinematographic processing laboratories PA494 Toys and sports goods -1 PA495 Miscellaneous manufacturing industries 67 PA500 Construction PA1002 Summary tables

Employment

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PA246 ABRASIVE PRODUCTS

PA246

The information in this report relates to establishments classified to the Abrasive products industry, Group 246 in the Standard Industrial Classification Revised 1980. The industry Group covers the following Activity Heading:-

2460 Abrasive products

Manufacture of abrasive products other than grindstones and millstones cut from natural stone (classified to Group 245) including articles of bonded natural or artificial abrasives, of natural or artificial diamonds, and articles of natural or artificial abrasives cemented to a base. The manufacture of artificial abrasive grains is included but not the preparation of natural abrasive grains which is classified to Group 245 and metallic abrasives which is classified to Group 316.

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

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 omparability 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 is given in Standard Industrial Classification Revised 1980. obtainable from Her Majesty's Stationery Office, price £3.95.

REPORTING UNIT

As far as possible the reporting unit in respect of which information is collected is one whose activities fall within a single activity heading of the classification and which is situated at a single geographical location. Frequently, however, the information required cannot be provided on this basis. Where information covering a mixture of activities is all that is available, the unit is classified according to the main activity. Where a unit operates at a number of locations and the full range of information is not available for each location, the reporting unit is deemed to cover a number of locations. In most cases, separate information on employment and net capital expenditure is obtained for each ocation (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 equired 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 nation ality 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 h 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 nquiry, 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 inform-ation 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

Page

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 the sampling arrangements agreed for the 1986 Census, forms were despatched to all establishments with 100 or more employed and, for most production industries, samples of 1 in 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 lears was poor, it was necessary to increase the sample. About 6,200 forms were despatched to production establishments in the United Kingdom for the 1986 Census.

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

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

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

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

the total disclosed '

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

CHANGES MADE FOR 1986 16. equipment.

SYMBOLS USED **Business Monitors:**

revised

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

The following symbols are used throughout the PA series of

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

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, 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, 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. 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 vear 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 nclusive of duty if goods are sold 'duty-paid' and exclusive of duty if goods are sold in bond or exported. The cost of packaging materials less allowances for returnable containers is included. Sales of fixed assets and exceptional receipts are excluded. Transfers of goods produced by an establishment to departments not covered by the return (including other establishments in the same enterprise group) are treated as sales, valued as if sold to an independent

STOCKS

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

WAGES AND SALARIES

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

WORK DONE AND INDUSTRIAL SERVICES RENDERED

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

WORK IN PROGRESS

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

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TABLE 1

Output and costs, 1982-1986

All United Kingdom establishments classified to the industry (a)

	Unit	1982	1983	1984	1985	1986
Enterprises	Number	105	101	 98(b)	92	99
Establishments		128	123	112(b)	106	113
Sales of goods produced	£ million	141.5	148.4	177.7(c)	162.4(d)	174.1
Work done and industrial services rendered		3.6	0.6	(c)	8.2	0.4
Capital goods produced for establish- ments' own use		0.4	0.4	0.3	0.4	0.2
Non-industrial services rendered		1.7	0.2	0.2	(d)	0.2
Goods merchanted or factored		18.9	18.4	25.3	27.5	31.5
Total sales and work done		166.1	168.0	203.4	198.5	206.3
Increase during the year, work in progress and goods on hand for sale		1.6	-0.6	-0.4	2.3	-1.8
Gross output		167.8	167.4	203.0	200.7	204.6
Purchases of materials for use in pro- duction, packaging and fuel		69.1	68.4	82.2	75.8	80.7
Purchases of goods for merchanting or factoring		13.4	13.9	18.9	21.6	25.0
Increase during the year, stocks of materials, stores and fuel		-0.7	-2.1	1.6	1.6	-4.4
Cost of industrial services received		3.9	2.6	3.4	3.6	2.9
Net output		80.6	80.4	100.0	101.2	91.6
Total employment	Thousand	6.7	5.1	5.3(b)	4.9	4.8(e)
Net output per head	£	12,017	15,622	18,953	20,740	19,195
Cost of non-industrial services received						
Hire of vehicles, plant and machinery	£ million	1.7	1.3	1.9	1.6	2.1
Rents of industrial and commercial buildings		0.2	0.1	0.2	0.1	në banë sendon në bitëver= vrub
Commercial insurance premiums		1.0	0.8	0.8	1.0	1.2
Bank charges	1	0.2	0.1	0.1	0.1	0.2
Other non-industrial services		9.1	7.5	15.2	7.1	8.7
Licensing of motor vehicles		0.1	0.1	0.1	eenia et nica±anigen onaviena et e	ALA LUCZUNT
Rates, excluding water rates		2.0	1.9	2.0	2.1	2.2
Gross value added at factor cost		66.4	68.6	79.9	89.1	77.1
Gross value added at factor cost per head		9,894	13,328	15,132	18,260	16,164

(a) Satisfactory returns accounted for 66 per cent of employment within the industry in 1986.

(c) Work done and industrial services rendered included in sales of goods produced.

(d) Non-industrial services rendered included in sales of goods produced.

(e) Returned figures gave a total of 43 employees directly employed for all of their time on computer work. This figure was collected separately for 1986.

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TABLE 2

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

£ million 1982 1983 1984 1985 1986 Land and buildings New building work 0.6 0.4 0.4 0.7 0.3 Land and existing buildings Acquisitions 0.4 0.3 0.3 0.1 Disposals 0.2 0.5 0.1 0.5 0.2 Net 0.8 0.3 0.3 0.5 0.3 Plant and machinery Acquisitions 4.9 5.7 5.0 4.8 4.7(a) Disposals 0.1 0.2 0.7 0.3 0.1 Net 4.8 5.5 4.3 4.6 4.6 Vehicles Acquisitions 1.5 1.0 1.0 0.9 0.7 0.8 Disposals 0.5 0.6 0.3 0.3 Net 0.7 0.5 0.4 0.5 0.6 Total net capital expenditure 6.2 6.2 5.0 5.7 5.3

(a) Returned figures gave a total of £282 thousand for computer and associated data communications equipment. This figure was collected separately for 1986.

TABLE 3

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

					£ million
1982	1983	1984	1985	1986	Value at end of 1986
	Inc	crease during y	ear		
-0.7	-2.1	1.6	1.6	-4.4	12.9
0.3	0.1 - 770	-0.6	0.8	0.2	9.2
1.4	-0.6	0.2	1.5 mil 1.5	-2.0	15.7
0.9	-2.7	1.2	3.8	-6.2	37.8
	-0.7 0.3 1.4	Inc -0.7 -2.1 0.3 - 1.4 -0.6	Increase during y -0.7 -2.1 1.6 0.30.6 1.4 -0.6 0.2	Increase during year -0.7 -2.1 1.6 1.6 0.30.6 0.8 1.4 -0.6 0.2 1.5	Increase during year -0.7 -2.1 1.6 1.6 -4.4 0.30.6 0.8 0.2 1.4 -0.6 0.2 1.5 -2.0

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site droug, the sum of individual enterense counts may enceed the heat for the man

(c) The cost of employers' contributions to the national insurance, pensions and wellarn adjoints and the runnerg costs of contracts are included from the table but were estimated for the adjustival ES.6 million.

(d) Gross value adjed data relates to establishments conduction 1-199

⁽b) Use of a new register of businesses for 1984 has affected the number of enterprises and establishments. This has led to the estimated total employment being decreased by 6% 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.

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

Size group	Estab- lish- ments	Enter- prises (b)	Employmen	t ins	241) 701 143	Wages	Wages and salaries (c)			
			Total including working proprietors	Opera- tives	Administr- ative,tech- nical and clerical		ves	till c (serifi)	Administr technical clerical	
						Total	pe he	er ead	Total	per head
	Number	Number	Thousand	Thousand	Thousand	£ millio	n £		£ million	f
1-9	51	49	0.2)							
10-19	21	21	0.3)	1.4	0.8	11.0	1 7	,972	8.4	10,548
20-49	19	19	0.7)	1.4	0.0		, ,	,512	0.4	10,540
50-99	13	13	1.0)							
100-199	4	4	0.5	0.3	0.2	2.5	5 7	,561	2.1	10,066
200-P1us	5	3	2.1	1.3	0.8	12.0	9 9	,347	8.1	10,475
otal	113	99	4.8	3.0	1.8	25.4	. 8	,518	18.6	10,460
(a) Establishme data for the			an 20 persons Id be regarded							ant rescalations
(b) The count o			ach row repre							

(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 £6.6 million.

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

Total sales Gross and work output done		Net output		Gross va added at factor co	t	Total stocks and work in progress at end of year		
		Total	per head	Total	0.00	per head		
E million	£ million	£ million	£	£ million		<u></u>	£ million	£ million
100.0	99.1	36.7	16,833	(d)		(d)	1.9	21.2
17.4	10.0				0.07			
17.4	16.9	7.7	14,358	36.1		13,370(d)	0.6	2.9
88.9	88.6	47.2	22,962	41.0		19,955	2.8	13.7
600 Baac								
206.3	204.6	91.6	19,195	77.1		16,164	5.3	37.8

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TABLE 5

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

Accounting year ended	Percentage of total re received	turns		entage of total oyment	esice inte
1986 April 6 30	added at factor cre+		sadimo	- Induces	od wert one
May				-	
June	Instal Georgian Installing Trees			-dimension	
July	proprietors =				
August	10001			Ferral	
September	20.0			8.2	
October	5.0			8.6	
November	- Desitiva I			-	
December	55.0			76.5	
1987 January	5.0			1.3	
February	5.0			0.9	
1 March - 5 April	10.0			4.6	

TABLE 6

Operating ratios, 1982-1986

All United Kingdom establishments classified to the industry

	Unit	1982	1983	1984	1985	1986
			<u></u>			and the second second
ross output per head	£	24,997	32,538	38,467	41,137	42,876
et output per head	£	12,017	15,622	18,953	20,740	19,195
ross value added per head	£	9,894	13,328	15,132	18,260	16,164
ross value added as a percentage of ross output	x	40	41	39	44	38
itio of gross output to stocks		4.2	4.7	5.4	5.0	5.4
ages and salaries as a percentage of oss value added		69	59	54	49	57
tio of operatives to administrative, chnical and clerical employees		1.6	1.5	1.6	1.7	1.7
ages and salaries per operative	£	6,202	7,205	7,440	8,422	8,518
ages and salaries per administrative, chnical and clerical employee	£	7,989	8,790	9,557R	9,973	10,460
et capital expenditure per head	£	922	1,208	946	1,171	1,116
et capital expenditure as a percentage gross value added	x	9	9	6	6	7

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

Area		Total employment (a)		Net capital expenditure (b)		Net output (c)		Gross value added at factor cost (c)	
	Thousand	d per cent of United Kingdom	£ million	per cent of United Kingdom	£ million	per cent of United Kingdom	£ million	per cent of United Kingdom	
Standard regions of England									
North	IWE	0.8	HT	0.7	0.6	0.7	0.5	0.6	
Yorkshire and Humberside	0.3	6.0	0.2	3.5	4.4	4.8	3.5	4.5	
East Midlands	0.3	5.9	0.3	5.6	4.3	4.7	3.5	4.5	
East Anglia	mun	0.1	10_7	1011	ng	VI _	-	-	
South East	1.3	27.4	1.2	22.6	21.9	23.9	17.4	22.6	
South West	0.3	6.5	0.4	7.5	4.9	5.4	4.0	5.2	
West Midlands	1.4	29.9	2.3	43.3	37.4	40.8	33.8	43.8	
North West	1.0	21.0	0.8	15.4	16.3	17.8	13.0	16.9	
ngland	4.7	97.6	5.2	98.5	89.9	98.2	75.8	98.3	
Vales	-	0.8	-	0.6	0.6	0.6	0.5	0.6	
cotland 	0.1	1.3	19 hr	0.6	0.9	1.0	0.7	0.9	
ireat Britain	4.8	99.7	5.3	99.8	91.4	99.8	77.0	99.8	
lorthern Ireland	FIO 2	0.3	ACTIVITIES	0.2	0.2	0.2	0.2	0.2	
– Jnited Kingdom	4.8	100.0	5.3	100.0	91.6	100.0	77.1	100.0	

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

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

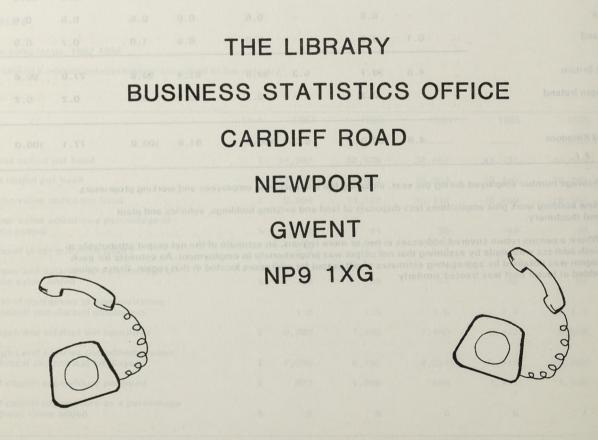
(c) Where a census return covered addresses in two or more regions, an estimate of the net output attributable to each address was made by assuming that net output was proportionate to employment. An estimate for each region was obtained by aggregating estimates of net output for addresses located in that region. Gross value added at factor cost was treated similarly.

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