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**Business Monitor** 

Report on the **Census of Production** 

Building products of concrete, cement or plaster



A publication of the Government Statistical Service

# **BUSINESS MONITORS**

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# PA243

# **BUSINESS MONITOR**

A publication of the Government Statistical Service

Report on the Census of Production 1986

Building products of concrete, cement or plaster

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 PA112 Coke ovens PA130 Extraction of mineral oil and natural gas PA131 Production and distribution of electricity PA140			varia
PA130 Extraction of mineral oil and natural gas PA140 Mineral oil processing PA161 Production and distribution of electricity PA170 Water supply industry PA170 Water supply industry PA170 Water supply industry PA171 Extraction and preparation of metalliferous ores  38 PA221 Iron and steel industry PA222 Iron and steel industry PA223 Drawing, cold rolling and cold forming of steel PA224 Iron and steel industry PA231 Extraction of stone, clay, sand and gravel PA232 Drawing, cold rolling and cold forming of steel PA233 Drawing, cold rolling and cold forming of steel PA234 Extraction of stone, clay, sand and gravel PA235 Extraction of miscellaneous minerals (including salt) PA236 Extraction of miscellaneous minerals (including salt) PA247 Extraction of miscellaneous minerals (including salt) PA248 Extraction of miscellaneous minerals (including salt) PA249 Cement, lime and plaster PA240 Cement, lime and plaster PA240 Extraction of miscellaneous minerals (including salt) PA240 Extraction of miscellaneous minerals (including salt) PA241 Structural clay products PA242 Extraction of miscellaneous minerals (including salt) PA243 Extraction of miscellaneous minerals (including salt) PA244 Extraction of miscellaneous minerals (including salt) PA245 Extraction of miscellaneous minerals (including salt) PA246 Extractory and ceramic goods PA247 Extraction of man and other non-metallic minerals PA248 Extraction and other non-metallic minerals PA249 Extraction of mean and other non-metallic minerals PA259 Extraction of miscellaneous minerals (including salt) PA250 Paints, varnishes and printing ink PA251 Extraction of miscellaneous mineral (including salt) PA252 Paints, varnishes and printing ink PA253 Extraction of miscellaneous mineral (including salt) PA254 Paints, varnishes and printing ink PA255 Paints, varnishes and printing ink PA256 Sepicialised chemical products mainly for industrial and agricultural purposes PA259 Extraction of miscellaneous miscellaneous miscellaneous miscellaneous miscellaneous miscellaneous miscel	PA1001	Introductory notes	
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PA341 Insulated wires and cables  PA342 Basic electrical equipment  PA343 Electrical equipment for industrial use, and batteries and accumulators  PA344 Telecommunication equipment, electrical measuring equipment, electronic capital goods and passive electronic components  PA345 Miscellaneous electronic equipment  PA346 Domestic-type electric appliances  PA347 Electric lamps and other electric lighting equipment  PA351 Motor vehicles and their engines  2  2  2  3  3  4  4  5  6  7  7  8  8  8  8  8  8  8  8  8  8  8	PA330	Manufacture of office machinery and data processing equipment	7
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PA347 Electric lamps and other electric lighting equipment 13 PA351 Motor vehicles and their engines 0			
PA351 Motor vehicles and their engines 0			
	PA352	Motor vehicle bodies, trailers and caravans	

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

		Employ percenta variation
PA353	Motor vehicle parts	-2
PA361	Shipbuilding and repairing	0
PA362	Railway and tramway vehicles	0
PA363	Cycles and motor cycles	0
PA364	Aerospace equipment manufacturing and repairing	0
PA365	Miscellaneous vehicles	2
PA371	Measuring, checking and precision instruments and apparatus	4
PA371	Medical and surgical equipment and orthopaedic appliances	-8
PA372	Optical precision instruments and photographic equipment	1
	Clocks, watches and other timing devices	o
PA374	Organic oils and fats	1
PA411		
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	4
PA466	Articles of cork and plaiting materials, brushes and brooms	7
PA467	Wooden and upholstered furniture and shop and office fittings	-1
PA471	Pulp, paper and board	1
PA472	Conversion of paper and board	
PA475	Printing and publishing	3
PA481	Rubber products	5
PA483	Processing of plastics	-1
PA491		2
PA492	Jewellery and coins	roch sell lar
PA493	Musical instruments	-5
PA494	Photographic and cinematographic processing laboratories	
PA495	Toys and sports goods	-1
PA500	Miscellaneous manufacturing industries	67
PA1002	Construction	
	Summary tables	

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The information in this report relates to establishments classified to the Building products of concrete, cement or plaster industry Group 243 in the Standard Industrial Classification Revised 1980. The industry Group covers the following Activity Headings:-

# 2436 Ready mixed concrete

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Table 7

Table 8

Table 9

Table 10

Table 11

Explanatory notes and definitions

# 2437 Other building products of concrete, cement or plaster

Manufacture of asbestos cement and asbestos cement products; plaster tiles and prefabricated components from plaster; structural concrete products including concrete bricks and blocks and other precast concrete goods; sand-lime bricks, pitch fibre pipes and other

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.

#### Output and costs, 1982-1986 Table 1 9 Capital expenditure, 1982-1986 Table 2 Table 3 Stocks and work in progress, 1982-1986 Employment, labour costs, output, net capital expenditure and stocks and Table 4 10-11 work in progress by size of total employment, 1986 Percentage analysis of twelve-month periods covered by returns received Table 5 12 for the 1986 Census by number of returns and total employment 12 Operating ratios 1982-1986 Table 6

Regional distribution of employment, net capital expenditure, net output

and gross value added at factor cost, 1986

Output and costs by activity heading, 1986

Operating ratios by activity heading, 1986

Capital expenditure by activity heading, 1986

Stocks and work in progress by activity heading, 1986

# 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 Majesty's Stationery Office, price £3.95.

#### REPORTING UNIT

- As far as possible the reporting unit in respect of which information is collected is one whose activities fall within a single activity heading of the classification and which is situated at a single geographical location. Frequently, however, the information required cannot be provided on this basis. Where information covering a mixture of activities is all that is available, the unit is classified according to the main activity. Where a unit operates at a number of locations and the full range of information is not available for each location, the reporting unit is deemed to cover a number of locations. In most cases, separate information on employment and net capital expenditure is obtained for each location (local unit) in order to enable regional data to be compiled. The reporting unit, usually called the establishment, is therefore defined as the smallest unit for which the information normally required in a production census can be provided.
- Establishments are asked to exclude from their returns particulars relating to ancillary departments not engaged in production (such as merchanting or factoring organisations, transport organisations, canteens and warehouses) for which separate accounts are kept. Transfers of goods produced to such departments are treated as sales, valued as far as possible as if sold to an independent purchaser. Where separate accounts are not kept, establishments are allowed to include details in their returns. Establishments are asked to include details relating to head offices engaged mainly in the administration of production units within the scope of the Census. Where head office activity covers more than one return, details are included in the principal return.

## THE REGISTER

- A register of production units throughout the United Kingdom is held on the BSO computer and provides the basis for BSO inquiries to the production sector. For each unit the register contains identification particulars and information about that unit's eligibility for inclusion in an inquiry, its relationship with other units in common ownership, its industrial classification, the nationality of its parent and location indicators for regional analyses. Regional and size analyses of manufacturing units are published in Business Monitor PA1003 — Analyses of United Kingdom Manufacturing (Local) Units by Employment Size. During 1984, for production inquiries, the BSO moved to an updated register which makes fuller use of information obtained from HM Customs and Excise VAT records
- The annual Census and other inquiries provide a major source of information for updating and checking the register. For estabishments on the register making returns to the Quarterly Sales Inquiry, industrial classification is reviewed annually and is derived from an analysis of their commodity sales. Employment data are provided by the Quarterly Sales Inquiry and the Census of Production. Where establishments on the register do not make returns to these inquiries, employment is based mainly on information provided by the Department of Employment from Censuses of Employment. New additions to the register are obtained from various sources including HM Customs and Excise VAT records and Censuses of Employment.

## COVERAGE

- The Census covers United Kingdom establishments engaged in industrial production, i.e. mining and quarrying, manufacturing, construction, and gas, electricity and water supply industries (Divisions 1 to 5 of SIC(80)). Establishments in the Channel Islands and the Isle of Man are excluded.
- 8. Under 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 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 16,200 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 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

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

- Within employment size groups in each industry, the 'average per head" is calculated for each census variable by dividing the total returned value for each variable by the total returned employment. This value is multiplied by the employment thought to exist in each non-responding or unselected establishment to yield an estimated value for that establishment. Estimates for items not collected on the shorter form are made in a similar way using
- 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 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 1986

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

## SYMBOLS USED

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

BOUNDING OF FIGURES

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

EXPLANATION OF TERMS USED IN THE CENSUS REPORT

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

This represents the value charged to capital account together 20 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 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. figures include non-deductible VAT but exclude deductible VAT. No allowance is made for depreciation, amortisation or obsolescence.

# on LAND AND EXISTING BUILDINGS

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

#### on NEW BUILDING WORK

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, lega fees, stamp duties, agents' commissions and Land Registry fees.

# on PLANT AND MACHINERY, VEHICLES

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

This represents the value of all work of a capital nature 24. carried out during the year by the establishments' own staff for use in the businesses covered by the returns.

COST OF INDUSTRIAL SERVICES RECEIVED

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

COST OF NON-INDUSTRIAL SERVICES RECEIVED

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. 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

EMPLOYMEN 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.

# ADMINISTRATIVE, TECHNICAL AND CLERICAL

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.

#### 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.

#### WORKING PROPRIETORS

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 commis-Part-time directors paid by fee only and directors who sion. received a definite wage, salary or commission are excluded.

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

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

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.

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

This is calculated by dividing NET OUTPUT by total EMPLOYMENT.

NON-INDUSTRIAL SERVICES RENDERED

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

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

PURCHASES OF MATERIALS FOR USE IN PRODUCTION, AND PACKAGING AND FUEL. PURCHASES OF GOODS FOR MERCHANTING OR FACTORING

These include the cost of raw materials, components, semimanufactured goods and workshop materials, replacement parts and consumable tools not charged to capital account, packaging materials of all types, stationery and printed matter, fuel, electricity and water, materials of all types used by the establishments or given out to other establishments for the production of machinery or other capital items for the establishments' own use and materials for use by the establishments when working on goods supplied by customers. The figures exclude VAT, purchases of machinery and plant, which are included in CAPITAL EXPENDITURE, and amounts payable to transport firms or credited to establishments' own transport departments for delivery of materials. The figures are net of the value of goods or packaging materials returned to suppliers and trade discounts receivable. Materials purchased duty-paid are included at their duty-paid value less drawbacks, rebates etc. Imported goods are included at their full delivered cost. 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

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

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.

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

	Unit	1982	1983	1984	1985	1986
Enterprises	Number	1,454	1,453	866(b)	902	882
Establishments		2,002	1,986	1,232(b)	1,245	1,278
Sales of goods produced	£ million	1,829.8	2,076.7	1,913.1	1,961.4	2,135.1
Work done and industrial services rendered		94.9(c)	34.6	37.5	40.1	24.9
Capital goods produced for establishments' own use		3.4	2.3	2.3	2.3	1.6
Non-industrial services rendered	in many city	18.2	21.8	29.5	20.3	20.2
Goods merchanted or factored		(c)	77.1	87.7	89.1	97.0
Total sales and work done	"	1,946.3	2,212.4	2,070.1	2,113.2	2,278.8
Increase during the year, work in progress and goods on hand for sale	LEINOS	-1.6	7.9	13.9	9.1	6.0
Gross output		1,944.7	2,220.3	2,084.0	2,122.3	2,284.8
Purchases of materials for use in production, packaging and fuel	or with the	1,019.7(d)	1,088.1	973.6	994.5	1,072.6
Purchases of goods for merchanting or factoring		(d)	60.6	74.3	74.1	81.2
Increase during the year, stocks of materials, stores and fuel		-1.0	7.4	3.7	7.5	4.2
Cost of industrial services received		64.0	79.4	63.5	76.7	76.6
Net output		860.1	999.5	976.4	984.5	1,058.6
Total employment	Thousand	44.5	43.5	39.0(ь)	37.1	36.9(e)
Net output per head	f	19,343	22,968	25,032	26,503	28,699
Cost of non-industrial services received						
Hire of vehicles, plant and machinery	f million	14.3	16.7	15.4	13.2	14.8(f)
Rents of industrial and commercial buildings		5.7	5.4	5.6	4.8	5.0
Commercial insurance premiums	UF "	6.3	6.4	6.4	6.4	7.3
Bank charges		0.5	0.6	0.5	0.6	0.7
Other non-industrial services		151.6	171.0	221.4	192.8	192.1
Licensing of motor vehicles		2.9	3.0	3.3	3.1	3.1
Rates, excluding water rates	AECS"VEL	15.5	15.8	14.8	15.7	17.0
Gross value added at factor cost		663.2	780.7	709.0	747.9	818.5
Gross value added at factor cost per head	f	14,916	17,939	18,179	20,134	22,191

(a) Satisfactory returns accounted for 70 per cent of employment within the industry in 1986.

(b) Use of a new register of businesses for 1984 has affected the number of enterprises and establishments. This has led to the estimated total employment being decreased by 9% in this industry. Estimates for other variables are dependent upon employment and the change should be taken into account when interpreting the figures in this publication. Further information is given on page 2.

(c) Goods merchanted or factored included in work done and industrial services rendered.

(d) Purchases of goods for merchanting or factoring included in purchases of materials for use in production, packaging and fuel.

(e) Returned figures gave a total of 173 employees directly employed for all of their time on computer work. This figure was collected separately for 1986.

(f) Returned figures gave a total of £340 thousand for computer and associated data communications equipment. This figure was collected separately for 1986.

TABLE 2

Capital expenditure, 1982-1986

All United Kingdom establishments classified to the industry

soil supply	1982	1983	1984	1985	1986	
and and buildings		Bector	- T		(4) 191950	
New building work	17.7	5.5	11.1	10.0	10.0	
Land and existing building	s					
Acquisitions	-	7.8	•10	9.3	6.6	
Disposals	2.9	2.7		1.8	2.9	
Net	14.8	10.6	13.4	17.5	13.6	
lant and machinery						
Acquisitions	57.4	68.9	76.2	78.2	60.2(a)	
Disposals	3.7	3.9	3.3	2.4	2.4	
Net and the second	53.7	65.0	72.9	75.8	57.8	
/ehicles						
Acquisitions	10.4	22.3	21.2	17.5	17.8	
Disposals	91-97-40 1 1 39-30 es	4.5	4.8	4.2	4.4	
Net	10.4	17.8	16.4	13.4	13.3	
Total net capital expendi	ture 78.9	93.4	102.6	106.7	84.8	

(a) Returned figures gave a total of £1,851 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					
		Increase during year									
Materials, stores and fuel	-1.0	7.4	3.7	7.5	4.2	75.0					
Work in progress	1.1	1.3	-2.7	-0.3	3.5	18.2					
Goods on hand for sale	-2.7	6.6	16.6	9.5	2.5	118.7					
Total	-2.6	15.3	17.6	16.6	10.2	211.9					

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TABLE 4

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

All United Kingdom establishments classified to the industry (a)

Size group	Estab-	Enter- prises	Emp	loymer	nt. T	C863	Wages and s	alaries (c)		
also priso i	ments	(b)								
			worl	iding	Opera- tives	Administr- ative,tech- nical and clerical	Operatives	4.6	Administr technical clerical	
							Total	per head	Total	per head
					EF 10.2					
Lancia merchalat	Number	Number	Tho	usand	Thousand	Thousand	£ million	£	£ million	to a large
1-9	800	570		2.9)						
10-19	198	179	a.es .	2.7)	11.0	4.3	92.9	8,469	41.4	9,605
20-49	114	103	3	3.6)						
50-99	87	71		5.3)						
100-199	52	33		7.6	5.3	2.2	46.1	8,646	21.0	9,493
200-299	8	8		1.9	1.3	0.7	12.2	9,540	6.7	10,358
300-499	7	5		2.3	1.7	0.6	17.6	10,531	6.8	10,756
500-749	7	5	L. CHEL	1.4	3.0	1.5	29.7	10,060	14.7	10,125
750-Plus	5	5	eranica e	5.1	3.7	1.4	37.3	10,123	14.7	10,407

Total	1,278	882	36.9	25.9	10.7	235.8	9,108	105.4	9,873

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

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

(c) The cost of employers' contributions to the national insurance, pensions and welfare schemes and the running costs of canteens are excluded from the table but were estimated for the industry at £47.4 million.

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

3	listes to spiritue	Perci					
Total sales and work done	Gross output	Net output	ny etianas	Gross value added at factor cost	Bur (s)	Net capital expenditure	Total stocks and work in progress at end of year
		Total	per head	Total	per		
			lieau		head		
£ million	£ million	£ million	£	£ million	£	£ million	£ million
885.3	885.8	399.6	25,618	(d)	(d)	37.3	75.3
510.7	510.5	225.5	29,868	485.6(d)	21,022(d)	16.5	43.3
132.4	132.9	52.0	26,968	41.3	21,419	3.4	12.2
170.1	171.6	87.1	37,854	71.0	30,834	2.3	15.3
262.8	263.0	130.5	29,613	90.1	20,444	10.6	25.9
317.5	321.1	163.7	32,126	130.5	25,612	14.7	39.9

2,278.8	2,284.8	1,058.6	28,699	818.5	22,191	84.8	211.9	

TABLE 7

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

ccounting year ended	Percentage of total returns received	Percentage of total employment
986 April 6-30	1.8	0.6
May	1.2	0.6
June	10.2	11.5
July	3.6	1.4
August	3.0	1.1
September	8.4	8.1
October	1.2	0.5
November	-	-
December	40.7	43.2
987 January	1.8 (%)	1.2
February	2.4	0.9
1 March - 5 April	25.7	30.9

TABLE 6

Operating ratios, 1982-1986

All United Kingdom establishments classified to the industry

		Unit	1982	1983	1984	1985	1986
Gross output per head	Ī	£	43,737	51,019	53,432	57,132	61,944
Net output per head		£	19,343	22,968	25,032	26,503	28,699
Gross value added per head		£	14,916	17,939	18,179	20,134	22,191
Gross value added as a percentage of gross output		x	34	35	34	35	36
Ratio of gross output to stocks			10.2	10.9	10.2	10.1	10.8
Wages and salaries as a percentage of gross value added		×	44	41	45	43	42
Ratio of operatives to administrative, rechnical and clerical employees			2.4	2.3	2.4	2.4	2.4
Wages and salaries per operative		£	6,494	7,286	8,009R	8,506	9,108
Wages and salaries per administrative, technical and clerical employee		£	7,136	7,737	8,536R	9,103	9,873
Net capital expenditure per head		£	1,774	2,145	2,631	2,872	2,299
Net capital expenditure as a percentage of gross value added		x	12	12	14	14	10

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 employn (a)	nent	Net cap expend (b)		Net out (c)	put	Gross v added a factor c (c)	it
Local and exciting hintoings	Y.SNA.	Thousan	d per cent	£ million	per cent	£ million	per cent	f million	per cent
			United Kingdom		United Kingdom		United Kingdom		United Kingdom
Standard regions of England									
North		2.1	5.8	4.4	5.2	69.9	6.6	58.3	7.1
Yorkshire and Humberside		3.1	8.5	10.0	11.8	110.9	10.5	87.1	10.6
East Midlands		5.4	14.6	11.4	13.4	168.1	15.9	130.2	15.9
East Anglia		1.7	4.7	4.1	4.9	43.6	4.1	33.7	4.1
South East		8.0	21.6	21.6	25.5	239.3	22.6	186.0	22.7
South West		4.1	11.0	5.1	6.0	103.8	9.8	74.1	9.0
West Midlands		3.7	10.0	6.7	7.9	101.1	9.6	77.0	9.4
North West		2.7	7.3	6.0	7.1	79.1	7.5	64.1	7.8
England	4,614	30.8	83.5	69.3	81.8	915.9	86.5	710.5	86.8
Wales		1.4	3.7	4.0	4.7	33.5	3.2	24.5	3.0
Scotland		2.6	7.0	5.0	5.9	60.6	5.7	46.7	5.7
Great Britain	0.15 619,0	34.7	94.2	78.4	92.4	1,010.0	95.4	781.7	95.5
Northern Ireland		2.1	5.8	6.4	7.6	48.6	4.6	36.8	4.5
Jnited Kingdom	1.51	36.9	100.0	84.8	100.0	1,058.6	100.0	818.5	100.0

<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 for each region was obtained by aggregating estimates of net output for addresses located in that region. Gross value added at factor cost was treated similarly.

TABLE 9

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

	Unit	2436	2437	
Enterprises(a)	Number	124	770	
Establishments		345	933	
Sales of goods produced	£ million	692.4	1,442.7	
Work done and industrial services rendered	· salida	1.5	23.4	
Capital goods produced for establishments' own use		0.2	1.4	
Non-industrial services rendered		1.8	18.4	
Goods merchanted or factored		3.1	93.9	
Total sales and work done	. 8.11	699.0	1,579.8	
Increase during the year, work in	not such			
progress and goods on hand for sale	ep " 6.8	1.4	6.0	
Gross output	905 " A (A)	699.0	1,585.8	
Purchases of materials for use in production, packaging and fuel	ear - 8.6	479.5	593.0	
Purchases of goods for merchanting or factoring	(B),	2.9	78.4	
Increase during the year, stocks of materials, stores and fuel		-0.6	4.8	
Cost of industrial services received		20.8	55.8	
Net output	m e.a	195.2	863.4	
Total employment	Thousand	5.8	31.0	
Net output per head	£	33,428	27,810	
Cost of non-industrial services received				
Hire of vehicles, plant and machinery	£ million	2.8	12.1	
Rents of industrial and commercial buildings		2.2	2.8	
Commercial insurance premiums	torise oranglosymme an	1.1	6.3	
Bank charges	New property of the	0.1	0.5	
Other non-industrial services		37.5	154.6	
Licensing of motor vehicles	agryciana of atom	1.4	1.7	
Rates, excluding water rates		3.5	13.5	
Gross value added at factor cost		146.6		
Gross value added at factor cost per head	£	25,100		

<sup>(</sup>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.

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

	wheather our propose specially		£ million
	2436	2437	
and and buildings			
New building work	0.2	9.8	
Land and existing buildings			
Acquisitions	2.1	4.5	
Disposals			
Disposais	1.0	1.9	
Net	1.3	12.3	
Plant and machinery			
Acquisitions	11.9	48.2	
Disposals	0.6	1.7	
Net	11.3	46.5	
/ehicles			
Acquisitions	CHARTER		
THE RESIDENCE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON	8.0	9.7	
Disposals	1.4	3.0	
Net	6.6	6.7	
Total net capital expenditure	19.2	65.6	
the standard printing process	The forms from which		

TABLE 10

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

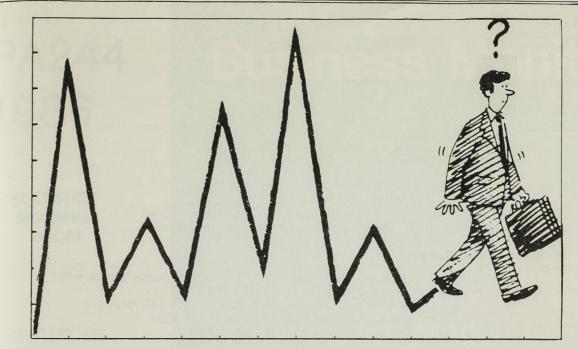
			£ million
one of over 30	2436	2437	onitors
10a Increase during year			
Materials, stores and fuel	-0.6	4.8	
Work in progress	-	3.4	
Goods on hand for sale Total	FRET 00	2.5	
ravised brochure	listing all	the Busine	
10b Value at end of year			
Materials, stores and fuel	8.0	67.0	
Nork in progress	itistics Of	fice.	
Goods on hand for sale	nt Building	5	
Total	8.7	203.2	

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Operating ratios, 1986

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

	Unit	2436	2437	
	-	51.	spots)	
Gross output per head	£	119,711	51,079	
Net output per head	£	33,428	27,810	
Gross value added per head	£	25,100	21,644	
Gross value added as a percentage of gross output	%	21	42	
Ratio of gross output to stocks		80.3	7.8	
Wages and salaries as a percentage of				
gross value added	%	36	43	
Ratio of operatives to administrative, technical and clerical employees		1.3	2.8	
Wages and salaries per operative	£	9,003	9,123	
Wassand advance and administrative				
Wages and salaries per administrative, technical and clerical employee	£	8,929	10,167	
Net capital expenditure per head	£	3,291	2,112	
Net capital expenditure as a percentage				
of gross value added	%	13	10	



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